

DRILLING REPORT

FOR THE

BE GROUPS 1 & 2

LIARD MINING DIVISION
68 Kilometres South of Telegraph Creek, B.C.
57°15'N 130°53'W
NTS 104 G/7W

Owned and Operated by Utah Mines Ltd.
by
G.L. Holland, Geologist
Utah Mines Ltd.
1600 - 1050 West Pender Street
Vancouver, B.C.

October, 1982

Work performed between
1st September and 14th September, 1982

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

10,711

FILMED

TABLE OF CONTENTS

| | <u>Page No.</u> |
|--|-----------------|
| INTRODUCTION..... | 1 |
| LOCATION AND ACCESS..... | 1 |
| DIAMOND DRILLING PROGRAM..... | 1 |
| LOCATION MAP..... | 2 |
| DRILLHOLE SUMMARY..... | 3 |
| | |
| APPENDIX A - DRILL LOGS | |
| APPENDIX B - DRILL ASSAYS | |
| APPENDIX C - STATEMENT OF QUALIFICATIONS | |
| APPENDIX D - STATEMENT OF COSTS | |

INTRODUCTION

An eight (8) hole diamond drilling program was conducted on the Mess Creek (BE claims) prospect between the 2nd of August and the 14th of September, 1982. Assessment for the first four (BC-10 thru BC-13) and a portion of the fifth (BC-14) was claimed in a previous report. This report claims the work done from September 1st thru September 14th, 1982. The claims upon which diamond drilling was specifically done include BE-3 and BE-5.

This report will claim as assessment work, the direct diamond drilling costs, necessary camp and support costs, assay costs, and geologic supervision charges related to the detailed logging of the core and the spotting and clearing of the drillsites.

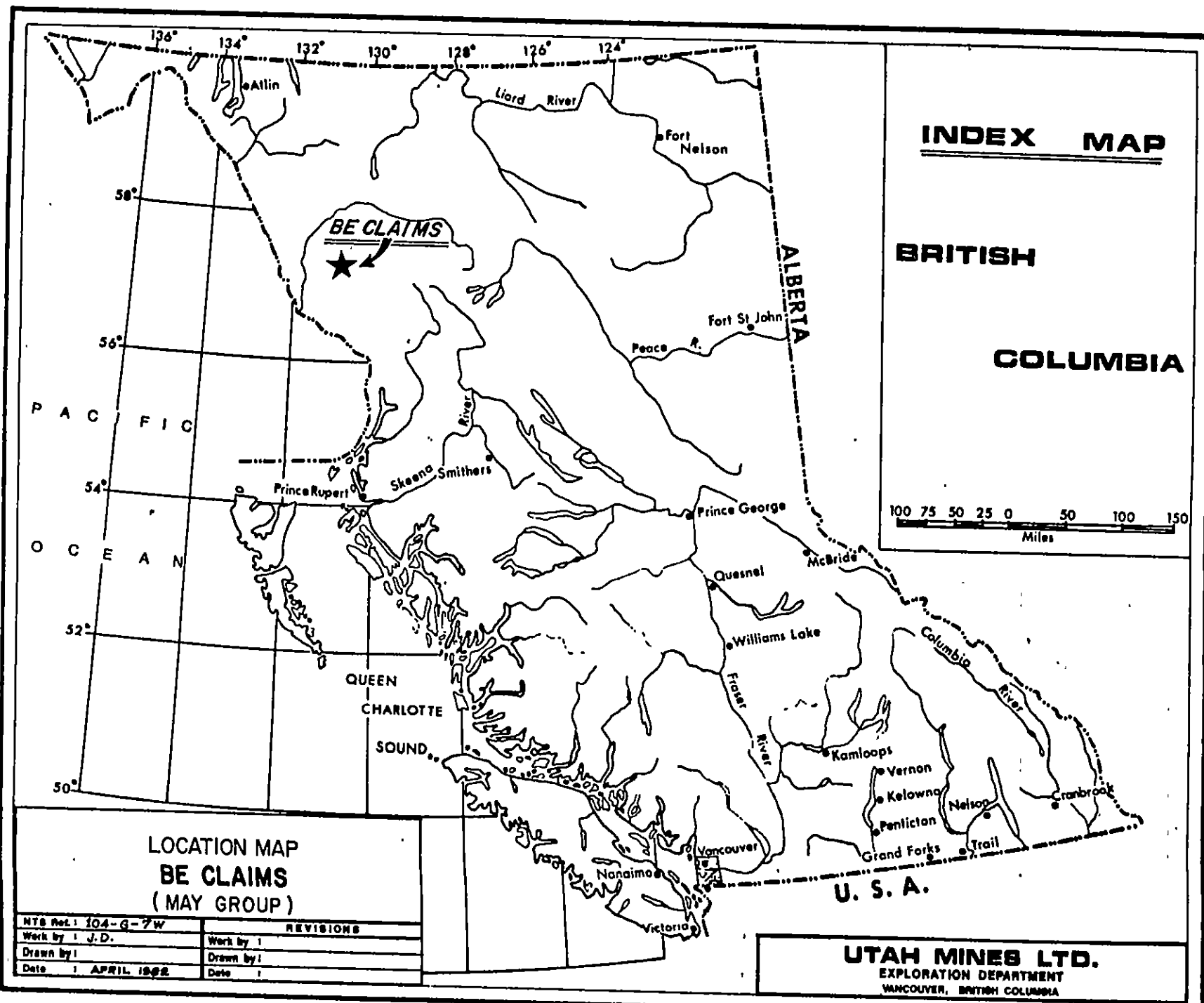
Location and Access

The BE claim group is situated on Mess Creek, approximately sixteen (16) kilometres south of Mess Lake and sixty-eight (68) kilometres south of Telegraph Creek on the Stikine River. Coordinates are 57°15'N and 130°53'W and the claims are located on NTS map sheet 104 G/7W. Access into the property is restricted to helicopter.

DIAMOND DRILLING PROGRAM

A contract was let to J.T. Thomas Drilling (1980) Ltd., in June 1982, to perform the required diamond drilling. One (1) Longyear "Super 38" drill was used, equipped to drill NQ size core. Drilling commenced the 16th of August and ended on the 11th of September, 1982. Demobilization of the drill, to the Burrage airstrip, was completed September 12th by a 205 and 500D, both on contract from Quasar Helicopters Ltd., Abbotsford, B.C.

The camp facilities and cook were provided and constructed by Utah Mines Ltd. Core-logging, and supervision were provided by Utah Mines Ltd., and included the following personnel: G.L. Holland, Geologist; J.R. Deighton, Senior Geologist; and R. Schmidt, Field Assistant. All core was logged in detail, by the staff geologist, then split in half, with one half sent for analysis to Chemex Labs Ltd. in North Vancouver, B.C. The remaining half is stored in an enclosed wood building in the campsite, on the property. All core is stored in wooden core trays and carefully labelled with hole number and meterage contained.



**LOCATION MAP
 BE CLAIMS
 (MAY GROUP)**

| | |
|-------------------|-----------|
| NTS No.: 104-G-7W | |
| Work by: J.D. | REVISIONS |
| Drawn by: | Work by: |
| Date: APRIL 1962 | Drawn by: |
| | Date: |


UTAH MINES LTD.
 EXPLORATION DEPARTMENT
 VANCOUVER, BRITISH COLUMBIA

The total meterage drilled from September 1st, in this program, was 532.8 metres. This included drillholes BC-14 (below 39 metres) thru BC-17. A summary of these holes is given below.

| <u>Hole #</u> | <u>Azimuth/ inclination</u> | <u>Meterage (m)</u> | <u>Claim</u> | <u>Date Start - Finish</u> |
|---------------|---------------------------------|-------------------------|--------------|--------------------------------|
| BC-14 | 090°/-60° | 111.3 | BE-3 | Sept 1 |
| BC-15 | 275°/-71° | 152.4 | BE-5 | Sept 2/Sept 5 |
| BC-16 | 090°/-70° | 117.6 | BE-3 | Sept 7/Sept 9 |
| BC-17 | 090°/-50° | 151.5 | BE-3 | Sept 10/Sept 11 |
| | | <u>532.8</u> | | |

Data accompanying this drill report consists of complete diamond drill logs and assays (Appendices A & B), Statement of Qualifications (Appendix C), Statement of Costs (Appendix D) and Diamond Drill Collar Location Plan (Plate No. 1).

October 1982


G.L. Holland, Geologist

APPENDIX A

DRILL LOGS

BC-14

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJ : May HOLE No. : B 14
 CASING COLLAR ELEV. : GROUND ELEV. : 925m DATE STARTED : August 30, 1982 PAGE No. 1 OF 11
 COORDINATES : 15580 N. 13435 E. DATE FINISHED : September 1, 1982 REF. TO CLAIM CORNER : BE-3
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 150.3 m LOGGED BY : G.L. Holland

| DEPTH (m) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: Fragment size coding Δ - frags 27cm ΔΔ - frags 7cm and >3cm .. ΔΔΔ - < 3cm | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|------|-------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 0 | | | | | | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | | |
| | | | | | | | | 0-0.31 stick-up | | | | | | | | | | | | | |
| | | | | | | | | 0.31 - 3.28 OVERBURDEN | | | | | | | | | | | | | |
| | | | | | | | | 3.28 m | | | | | | | | | | | | | |
| | | | | | | | | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | | | | | | |
| 5 | | | | | | | | - fragments of dk green andesite, fine-grained monzonite porphyry, coarse-grained monzonite porphyry in a dk colored coarse-grained monzonite porphyry. | | | | | | 40.10% | 11300C | | 3.28 | | | 0.05 | 0.017 |
| | | | | | | | | - fragments range up to 7-8cm in size. size of fragments is very | | | | | | | | | | | | | |
| | | | | | | | | → longtz-carb.vnt patchy | | | | | | | | | | | | | |
| | | | | | | | | - alot of limonite and hematite on | | | | | | | | | | | | | |
| | | | | | | | | → longtz-carb.vnt fractures. Fracturing moderate. | | | | | | | | | | | | | |
| 10 | | | | | | | | 3.28-5.5m - Fragments up to 2cm in size | | | | | | | | | | | | | |
| | | | | | | | | 5.5-8.3 - Frags up to 7cm in size | | | | | | | | | | | | | |
| | | | | | | | | 8.3-10.9 - Frags up to 2cm in size | | | | | | | | | | | | | |
| | | | | | | | | 10.9-12.3 - Frags up to 1.5 cm in size | | | | | | | | | | | | | |
| | | | | | | | | * Up to 3-4% magnetite & diss hematite | | | | | | | | | | | | | |
| | | | | | | | | 12.3-15.5m - Frags up to 2cm | | | | | | | | | | | | | |
| 15 | | | | | | | | → zone of qtz-carb vnting | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED :
 COORDINATES : N. E. : DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH :
 HOLE No. : B-14
 PAGE No. 4 OF 11
 REF. TO CLAIM CORNER :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | Cu ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | |
|-----------|--------------------|----------|----------|----------|----------|-----------------|----------|---|-----------|----------------------|-------------------|------------------|-------------|--------------|------------|--------------------|---------------------|--------|------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo |
| 45 | moderate | moderate | moderate | moderate | moderate | moderate-strong | | <p><u>XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA</u></p> <p>→ 1.5cm qtz unit</p> <p>Zones of strong and moderate alt'n</p> <p>→ 1cm qtz unit</p> <p>* Minor MoS₂ in qtz units</p> | | | | 1-2% | 40.10% | 11314C | | 45 | 0.02 | 0.003 | |
| 50 | moderate to strong | moderate | moderate | moderate | moderate | moderate | | <p>* silicious zone 49.0m silicious contact zone.</p> <p><u>FINE-MEDIUM GRAINED MONZONITE PORPHYRY</u></p> <p>- pinkish colored, aphanitic matrix - phenos generally < 2mm but sections of up to 4mm are found - fring moderately developed - a lot of magnetite and hematite - phenos - 30% all appear to be feldspars - sharp increase in cpy from the breccia - up to 5% mag & hem.</p> | | | | 0.10% | 0.10% | 11315C | | 48 | 0.04 | 0.004 | |
| 55 | moderate to strong | moderate | moderate | moderate | moderate | moderate | | <p>→ Carb unit @ frags.</p> <p>cpy is very patchy and comes in clusters in qtz s/w.</p> | | | | 2-3% | 0.20% | 11316C | | 51 | 0.20 | 0.018 | |
| 55 | moderate to strong | moderate | moderate | moderate | moderate | moderate | | <p>qtz-carb breccia geology.</p> | | | | 2-3% | 0.20% | 11317C | | 54 | 0.27 | 0.012 | |
| 60 | moderate to strong | moderate | moderate | moderate | moderate | moderate | | <p>→ 3cm qtz-carb unit</p> <p>→ 1cm qtz-carb unit.</p> | | | | 0.20% | 0.20% | 11318C | | 57 | 0.08 | 0.014 | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJ : MAY HOLE No. : B 14
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 5 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE RECY/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|---|---------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|-------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % | % | | |
| 60 | | | | | | | | | FINE-GRAINED MONZONITE PORPHYRY | | | | | | | 60 | | | | | |
| | | | | | | | | | → strong silicious zone Altn intensity changes over short sections - strong altn w good epy, mod altn - little epy | | | 2-3% | 0.20% | 11319C | | 60 | | 0.08 | 0.005 | | |
| | | | | | | | | | → 1cm carb velt Hem mag in every fracture as well as disseminated throughout | | | 1% | 40.10% | 11320C | | 63 | | 0.16 | 0.008 | | |
| 65 | | | | | | | | | → 2cm qtz-carb velt → qtz-veiled fault zone 65.8 - 69.0 - strong altn w good sulfide content (4%) and epy | | | 6% | 0.30% | 11321C | | 66 | | 0.13 | 0.008 | | |
| | | | | | | | | | → 1.5cm qtz-carb → 1cm qtz-carb velt Minor MoS ₂ in qtz velt. | | | 1% | 40.10% | 11322C | | 69 | | 0.04 | 0.007 | | |
| 70 | | | | | | | | | → 1cm qtz velt → 1cm qtz-carb velt | | | 40.10% | 11323C | | 72 | | 0.02 | 0.004 | | | |
| 75 | | | | | | | | | → 1cm qtz velt → 1cm qtz-carb velt 74.0 CONTACT ZONE - Banded Tuff. and Fine-Grained Monz. Porph. | | | | | | 75 | | | | | | |

COMPOSITE DRILL LOG

CORE : SCALE : PRO : May
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED :
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m
 HOLE No. : E 14
 PAGE No. 6 OF 11
 REF. TO CLAIM CORNER :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|--------|--------|-------------|------------|------------|----------|--|---|----------------------|-------------------|------------------|-------------|-----------|------------|--------------------|---------------------|--------|----|------|-------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % | % | % | % |
| 75 | strong | strong | weak | Very strong | Hem-mag-py | | | → 1.6m gouge zone. <u>CONTACT ZONE</u> | | | | | | | | | 75 | Cu | Mo | | |
| | | | | | | | | → 1cm gouge zone → 1cm qtz-carb vnt | | | | | | | | | | | | | |
| | | | | | | | | → 2cm gouge zone | Banded Tuff. -silicified -strong banded texture of dk green and light grn bands. | | | | | | | | | | | 0.05 | 0.008 |
| | | | | | | | | → 1cm gouge zone. | Menz. Porph - strongly altered. -dk green to pinkish color | | | | | | | | | | | | |
| 80 | | | | | | | | | Menzonite Porphyry is becoming less and less common. | | | | | | | | | | | 0.07 | 0.013 |
| | | | | | | | | → 1cm qtz-carb vnt | | | | | | | | | | | | | |
| | | | | | | | | → brecc zone. | | | | | | | | | | | | | |
| | | | | | | | | → 1.3cm qtz-carb vnt | Minor brecciation | | | | | | | | | | | 0.04 | 0.015 |
| | | | | | | | | → 1cm qtz-carb vnt | | | | | | | | | | | | | |
| 85 | | | | | | | | → 1cm qtz-carb vnt | | | | | | | | | | | | | |
| | | | | | | | | → 1.5cm qtz-carb | | | | | | | | | | | | | |
| | | | | | | | | → 2cm gouge zone | | | | | | | | | | | | | |
| | | | | | | | | → 1cm mag vnt | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE :
 CASING COLLAR ELEV. :
 COORDINATES : N. E.
 INCLINATION :

SCALE :
 GROUND ELEV. :
 AZIMUTH :

PRO : *May*
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH : *m*

HOLE No. : *214*
 PAGE No. *7* OF *11*
 REF. TO CLAIM CORNER :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|--|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|
| | Sericite | clay | silica | chlorite | epidote | | | | | | | | % Cu | % ESTIMATED | | | | % Cu | % Mo |
| 90 | | | | | | | | | <u>CONTACT ZONE cont</u> | | | | | | | 90 | | | |
| | | | | | | | | | → 1cm gouge zone → box zone. | | | | | | | | | | |
| | | | | | | | | | 91.0 - 96.4 - Very badly fractured | | | | | | | | | | |
| | | | | | | | | | 91.9 - 93.9 - Cave zone w alot of cave and minor gouge zones. often healed w qtz-carbonate. | | | | | | | | | | |
| | | | | | | | | | → 2cm gouge zone - Mostly banded Tuff. w minor sections of fine-grained monzonite porphyry and Augite-feldspar porphyry. | | | | | | | | | | |
| | | | | | | | | | → 3cm gouge zone | | | | | | | | | | |
| | | | | | | | | | → 10cm qtz-carb zone | | | | | | | | | | |
| | | | | | | | | | → 2cm gouge zone. | | | | | | | | | | |
| | | | | | | | | | → 6cm qtz-carb zone | | | | | | | | | | |
| | | | | | | | | | → 2cm gouge zone | | | | | | | | | | |
| | | | | | | | | | → 2cm qtz-carb unit. | | | | | | | | | | |
| | | | | | | | | | → contact brax 96.4m <u>Braccia Contact</u> | | | | | | | | | | |
| | | | | | | | | | <u>AUGITE-FELDSPAR PORPHYRY</u> | | | | | | | | | | |
| | | | | | | | | | - this is a dyke - intruding into the andesite. | | | | | | | | | | |
| | | | | | | | | | - dark green color; fine grained matrix | | | | | | | | | | |
| | | | | | | | | | - 60% phenos - 40-50% plag → sericite, 10-20% augite → epidote | | | | | | | | | | |
| | | | | | | | | | - a/tn moderate to strong - phyllic phase | | | | | | | | | | |
| | | | | | | | | | - phenos - up to 3mm in size | | | | | | | | | | |
| | | | | | | | | | - qtz s/w moderate | | | | | | | | | | |
| | | | | | | | | | - Up to 2% magnetite | | | | | | | | | | |
| | | | | | | | | | - minor py on frts | | | | | | | | | | |
| | | | | | | | | | 101.3m <u>Braccia Contact</u> | | | | | | | | | | |
| | | | | | | | | | → Contact brax. <u>SILICIFIED BANDED TUFF</u> | | | | | | | | | | |
| | | | | | | | | | - alot of hematite staining | | | | | | | | | | |
| | | | | | | | | | - Frtng very strong - weak crackle zone | | | | | | | | | | |
| | | | | | | | | | - pale green to yellow bands | | | | | | | | | | |
| | | | | | | | | | → 1cm qtz-carb unit. | | | | | | | | | | |
| | | | | | | | | | - aphanitic | | | | | | | | | | |
| | | | | | | | | | → Large mag mass. | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE :

SCALE :

PROJECT : May

HOLE No. : BUA

CASING COLLAR ELEV. :

GROUND ELEV. :

DATE STARTED :

PAGE No. 8 OF 11

COORDINATES :

N.

E.

DATE FINISHED :

REF. TO CLAIM CORNER :

INCLINATION :

AZIMUTH :

TOTAL DEPTH :

LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | |
|-----------|------------|----------|------------------|----------|--------------------|------------|----------|---|------------|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|-------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo |
| | strong | moderate | weak (fractures) | moderate | strong to moderate | | | | | | | | | | | | | | |
| 105 | | | | | | | | brxvd contact SILICIFIED BANDED TUFF 105.0 m | | | | | | | | | | | |
| | | | | | | | | FELDSPAR PORPHYRIC ANDESITE - dark green, fine-grained matrix - altn strong - phyllite phase - fract moderate to strong - up to 40% plag phenos → sericite - up to 5mm in size - mafics in gln → epidote | | | | | 2-3% | 0.10% | 11334C | | 105 | 0.07 | 0.004 |
| | | | | | | | | 1cm qtz-carb vnt 107.5-108.4 - Coarse-grained Monzonite Porphyry - pink aphanitic matrix w phenos up to 6mm - intrudes into fractures within the andesite | | | | | | 0.10% | 11335C | | 108 | 0.05 | 0.004 |
| | | | | | | | | brx zone 3cm qtz-carb vnt - porphyritic texture often obscured by alteration | | | | | | | | | | | |
| | | | | | | | | 4cm qtz-carb vnt In some places the matrix takes on an olive green color w dark green phenos. In other places it is dark green throughout. The latter has the best cpy. Minor hematite and magnetite on fractures. | | | | | | | | | | | |
| | | | | | | | | 0.8cm qtz-carb vnt | | | | | | | | | | | |
| | | | | | | | | 1cm qtz-carb vnt | | | | | | | | | | | |
| | | | | | | | | pyrite and apy mainly contained in blk frts but patches of disseminated sulphides are present. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PRO : May HOLE No. : E 14
CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 9 OF 11
COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
INCLINATION : AZIMUTH : TOTAL DEPTH : M LOGGED BY :

| DEPTH (M) | ALTERATION | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | | |
|-----------|------------|------|--------|----------|------------|----------|---------|--|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|---------|------|-------|--|--|
| | sericite | clay | silica | chlorite | | | | | | | | | | | | | epidote | % Cu | % Mo | | |
| 120 | | | | | | | | <u>FELDSPAR PORPHYRITIC ANDESITE cont.</u> | | | | | | | | 120 | | | | | |
| | | | | | | | | <u>Moderate hem in frts.</u> | | | | | | | | | 120 | 0.25 | 0.004 | | |
| | | | | | | | | <u>1cm qtz-carb unit</u> | | | | | | | | | | | | | |
| | | | | | | | | <u>Alt'n strong - phyllic phase</u> | | | | | | | | | | | | | |
| | | | | | | | | <u>trace of o.g. mmpz porph.</u> | | | | | | | | | 123 | | | | |
| | | | | | | | | <u>1cm qtz-carb unit</u> | | | | | | | | | | | | | |
| 125 | | | | | | | | <u>Qtz s/w moderately developed.</u> | | | | | | | | | | 0.03 | 0.003 | | |
| | | | | | | | | <u>1.5cm qtz-carb unit</u> | | | | | | | | | 126 | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | <u>1cm qtz-carb unit</u> | | | | | | | | | | 0.07 | 0.016 | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | 0.06 | 0.010 | | |
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| 135 | | | | | | | | | | | | | | | | | | 0.08 | 0.005 | | |

COMPOSITE DRILL LOG

CORE ID : SCALE : PRO : MAY HOLE No. : 14
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | Σ % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|--|----------------------|-------------------|------------------|-------------|---------------|------------|--------------------|---------------------|--------|-------|--|--|
| | sericite | Clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 135 | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | |
| | | | | | | | | | <u>FELDSPAR PORPHYRITIC ANDESITE cont.</u> | | | | | | | | 135 | | | | |
| | | | | | | | | | Qtz s/w moderately developed | | | | | 0.10% | 11344C | | | 0.11 | 0.029 | | |
| 140 | | | | | | | | | → 2cm qtz-carb with | | | | | 0.10% | 11345C | | | 0.10 | 0.038 | | |
| | | | | | | | | | | | | | | < 0.10% | 11346C | | | 0.05 | 0.006 | | |
| 145 | | | | | | | | | 144.1-144.8 - Banded Andesite. | | | | | 0.10% | 11347C | | | 0.11 | 0.007 | | |
| | | | | | | | | | 144.8m | | | | | 0.10% | 11348C | | | 0.03 | 0.007 | | |
| | | | | | | | | | PORPHYRITIC ANDESITE PYROCLASTICS | | | | | | | | | | | | |
| | | | | | | | | | - only difference to above is the presence of minor fragments within the andesite. | | | | | | | | | | | | |
| | | | | | | | | | → Qtz-carb near | | | | | | | | | | | | |
| | | | | | | | | | 147 - starting to see minor white augite crystals | | | | | | | | | | | | |
| | | | | | | | | | weakly brnd zone. | | | | | | | | | | | | |
| | | | | | | | | | → 2cm qtz-carb | | | | | | | | | | | | |
| | | | | | | | | | - frags are up to 15mm in size and subrounded. | | | | | | | | | | | | |

COMPOSITE DRILL LOG

| | | | |
|---|---------------|-----------------|------------------------|
| CORE SIZE : | SCALE : | PROJ. : | HOLE No. : |
| CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED : | PAGE No. 11 OF 11 |
| COORDINATES : N. E. | | DATE FINISHED : | REF. TO CLAIM CORNER : |
| INCLINATION : | AZIMUTH : | TOTAL DEPTH : | LOGGED BY : |

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | | | | | | | | | | | | | | | | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|--|----------------------|-------------------|------------------|-------------|-----------|------------|--------------------|---------------------|--------|---|---|---|---|---|---|---|---|---|---|----|----|---|---|--|--|--|--|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Cu | Mo | % | % | | | | | | |
| 150 | | | | | | | | | DESCRIPTIVE GEOLOGY Porphyritic Andesite Pyroclastics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 150.3 End of Hole. | | | | | | | | 150.3 | | | | | | | | | | | | | | | | | | | | | |
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COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJ : MAY HOLE No. : B-15
 CASING COLLAR ELEV. : GROUND ELEV. : 760m DATE STARTED : September 2, 1982 PAGE No. 1 OF 11
 COORDINATES : 17205 N. 13270 E. DATE FINISHED : September 5, 1982 REF. TO CLAIM CORNER : BE-5
 INCLINATION : -71° AZIMUTH : 275° TOTAL DEPTH : 152.4 m LOGGED BY : G.L. Holland

| DEPTH (m) | ALTERATION | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | | | | |
|-----------|------------|------------|----------|---------|-------------------------|----------------------|-------------------|------------------|-------------|-----------|------------|--------------------|---------------------|--------|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | 0.-0.31 Stick-Up | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | 0.31 - 21.34 OVERBURDEN | | | | | | | | | | | | | | | |
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15

COMPOSITE DRILL LOG

CORE : SCALE : POINT : May HOLE No. : 15
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 2 of 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (m) | ALTERATION | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | |
|----------------|------------|---------------|--------|----------|------------|----------|---|------------|----------------------|-------------------|------------------|-------------|-----------|------------|--------------------|---------------------|---------|------|
| | Sericite | clay | silica | chlorite | | | | | | | | | | | | | epidote | % Cu |
| 15 | | | | | | | OVER BURDEN cont. | | | | | | | | | | | |
| 21.34m | | | | | | | COARSE-GRAINED MONZONITE PORPHYRY | | | | | | | | | | | |
| 21.34m - 22.1m | weak | | | | | | 15cm gouge zone | | | | | | | | | | | |
| 22.1m - 22.8m | | mod to strong | | | | | 15cm qtz vnt | | | | | | | | | | | |
| 22.8m - 23.5m | | | | | | | 15cm gouge zone | | | | | | | | | | | |
| 23.5m - 24.2m | | | | | | | 20cm gouge zone | | | | | | | | | | | |
| 24.2m - 24.9m | | | | | | | 15cm qtz vnt | | | | | | | | | | | |
| 24.9m - 25.6m | | | | | | | 20cm qtz vnt | | | | | | | | | | | |
| 25.6m - 26.3m | | | | | | | 60cm fault zone | | | | | | | | | | | |
| 26.3m - 27.0m | | | | | | | 25.9m Fault Contact | | | | | | | | | | | |
| 27.0m - 27.7m | | | | | | | SILICIFIED ANDESITE | | | | | | | | | | | |
| 27.7m - 28.4m | | | | | | | 20cm gouge zone | | | | | | | | | | | |
| 28.4m - 29.1m | | | | | | | 20cm gouge zone | | | | | | | | | | | |
| 29.1m - 29.8m | | | | | | | 20cm gouge zone | | | | | | | | | | | |
| 29.8m - 30.5m | | | | | | | Rock very badly fractured and faulted to a depth of 47.0m | | | | | | | | | | | |
| 30.5m - 31.2m | | | | | | | 150cm fault zone 29.4-31.0 - Fault zone | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE NO. : SCALE : PRO : MAY HOLE No. : 10-15
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 4 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|---------------------|----------|--------------------------------------|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 45 | ↑ | ↑ | ↑ | ↑ | ↑ | moderate to intense | | → 10cm gouge zone | PORPHYRITIC ANDESITE - dark green, aphanitic matrix - moderate fracturing - alt'n strong - phyllite phase | | | | | | | 45 | 0.03 | 0.004 | | | |
| | | | | | | | | → 4cm fault zone | - plagioclase phenos often obscured - probably up to 50% phenos. - minor chlorite on fractures | | | | | | | | | | | | |
| | | | | | | | | → 2cm gouge zone | - minor sections of coarse-grained monzonite porphyry. | | | | | | | | 48 | | | | |
| | | | | | | | | → 5cm gouge zone → 2cm gouge zone | - pyrophy contained in micro fractures | | | | | | | | | | | | |
| 50 | | | | | | | | | 50.8-58.4 - Brecciated section | | | | | | | | | | | | |
| | | | | | | | | → lamatz-carbunit | | | | | | | | | | | | | |
| | | | | | | | | → 10cm healed fault zone | | | | | | | | | | | | | |
| | | | | | | | | | | | | 1% | | | | | | | | | |
| | | | | | | | | → 2cm gr-carbunit | Periodic cave zones throughout the hole. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | → 15cm gouge zone | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | → 1.5cm gouge zone | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED :
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH :
 HOLE No. : 6015
 PAGE No. 5 OF 11
 REF. TO CLAIM CORNER :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | R % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|---------------------|---------|---|----------------------|-------------------|------------------|-------------|---------------|------------|--------------------|---------------------|--------|------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | % Cu | % Mo | | |
| 60 | | | | | | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | |
| | | | | | | | | PORPHYRITIC ANDESITE | | | | | | | | | | | | |
| | | | | | | | | → 1.3m qtz-carb vult. | | | | | | | | | | | | |
| | | | | | | | | hemetite on fractures | | | | | | | | | | | | |
| | | | | | | | | → 1cm qtz-carb vult. | | | | | | | | | | | | |
| 65 | | | | | | | | → 0.7cm gouge zone @ 4.3m - banding becomes quite strong, porphyritic texture present also. | | | | | | | | | | | | |
| | | | | | | | | - bands are very thin 1-2mm in width @ 90° to c.A | | | | | | | | | | | | |
| | | | | | | | | → 10m qtz vult. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | → qtz-carb zone | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | → 1cm qtz-carb vult. | | | | | | | | | | | | |

moderate
 strong
 weak
 moderate
 PY-hem-spl

1%

11362C
 11363C
 11364C
 11365C
 11366C

60
 63
 66
 69
 72
 75

0.02 0.003
 0.02 0.001
 0.02 0.001
 0.01 0.001
 0.01 0.001

COMPOSITE DRILL LOG

CORE : SCALE : PROJECT : *May* HOLE No. : *15*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *7* OF *11*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|-------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % | % | | |
| 90 | | | | | | | | | → 0.5cm gouge. <u>PORPHYRITIC ANDESITE cont</u> | | | | | | | 90 | Cu | Mo | | | |
| | | | | | | | | | → 2cm gouge zone | | | | | | | | | 0.01 | 0.001 | | |
| | | | | | | | | | → 3cm gouge zone | | | | | | | | | | | | |
| | | | | | | | | | → 1cm qtz-carb with | | | | | | | | | | | | |
| | | | | | | | | | → weak brecciation | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | → qtz-carb & brnx frags | | | | | | | | | | | | |
| | | | | | | | | | → carb brnx | | | | | | | | | | | | |
| | | | | | | | | | → 3cm gouge zone | | | | | | | | | | | | |
| | | | | | | | | | → 10cm gouge zone | | | | | | | | | | | | |
| | | | | | | | | | → 3cm qtz-carb with | | | | | | | | | | | | |
| | | | | | | | | | → carb zone w brnx. | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | |

105

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : MAY HOLE No. : 15-15
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 9 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (M) | ALTERATION | | | | FRACTURING MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------------------|---------|--|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|---------|------|------|--|
| | sericite | clay | silica | chlorite | | | | | | | | | | | | epidote | % Cu | % Mo | |
| 120 | ↑ | ↑ | ↑ | ↑ | ↑ | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | |
| | | | | | | | PORPHYRITIC ANDESITE cont. | | | | | | | | | | | | |
| | | | | | | | 120.7-121.1 - Banded Dust tuff | | | | | | | | | | | | |
| | | | | | | | - Chlorite on frts common in sections | | | | | | | | | | | | |
| | | | | | | | - Very little mag or hem present. | | | | | | | | | | | | |
| | | | | | | | 1cm qtz-carb vult 122.8-123.0 - Banded Dust Tuff | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 125 | | | | | | | 2cm qtz-carb vult 124.1-124.4 - Banded Dust Tuff | | | | | | | | | | | | |
| | | | | | | | 124.7-126.5 - " " " | | | | | | | | | | | | |
| | | | | | | | Sericite in veinlets quite visible | | | | | | | | | | | | |
| | | | | | | | Can clearly see gradations from dark green to pale green | | | | | | | | | | | | |
| | | | | | | | gsm in the andesite. Rock is mainly pale green. | | | | | | | | | | | | |
| | | | | | | | 2cm qtz-carb vult a lot of sericite | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 2cm qtz-carb vult | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 135 | | | | | | | 1cm qtz-carb. 134.6 Sharp contact @ 80°+c.a. | | | | | | | | | | | | |
| | | | | | | | COARSE-GRAINED MONZONITE PORPHYRY | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJ : MAY HOLE No. : B05
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (m) | ALTERATION | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | |
|-----------|------------|------------------|--------|--------------------|------------|----------|--|-----------|---------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|---------|------|------|--|
| | Sericite | Clay | Silica | chlorite | | | | | | | | | | | | | epidote | % Cu | % Mo | |
| 135 | weak | weak | weak | weak | mod | | <p><u>COARSE-GRAINED MONZONITE PORPHYRY</u></p> <p>-pink to green colored aphanitic matrix -60% phenos - 30% hbl → chlorite + ser. 30% plag → sericite + clay -hbl - lathlike crystals, no little trace sulphides -alt'n weak sharp, irregular contact 136.9m</p> | | | | 4 1/2 | 40.10% | 11387C | | 135 | 20.01 | 20.001 | | | |
| 140 | moderate | weak (fractures) | weak | moderate to strong | Py - (cp4) | | <p><u>PORPHYRITIC ANDESITE</u></p> <p>-pale green color till 138.0, then dk green. - up to 25% plag phenos → sericite - alt'n moderately developed - phyllic phase - minor chlorite on fets</p> | | | | 1% | 40.10% | 11388C | | 138 | 0.01 | 20.001 | | | |
| 145 | moderate | weak (fractures) | weak | moderate to strong | Py - (cp4) | | <p>Coloring depends on epidote vs silica in the matrix</p> | | | | 1% | 40.10% | 11389C | | 141 | 0.02 | 20.001 | | | |
| 150 | moderate | weak (fractures) | weak | moderate to strong | Py - (cp4) | | | | | | 1% | 40.10% | 11390C | | 144 | 0.01 | 20.001 | | | |
| 155 | moderate | weak (fractures) | weak | moderate to strong | Py - (cp4) | | | | | | 1% | 40.10% | 11391C | | 147 | 0.02 | 20.001 | | | |
| 160 | moderate | weak (fractures) | weak | moderate to strong | Py - (cp4) | | | | | | 1% | 40.10% | 11392C | | 150 | 0.02 | 20.001 | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : B05
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 11 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|----------------------------|--------------------------------|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|---|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % | % | | |
| 150 | | | | | | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | | |
| | | | | | | | | PORPHYRITIC ANDESITE cont. | | | | | | | | | | | | | |
| | mod | | | weak | weak | | moderate | | → length unit | | | 1% | 20.10% | 11392C | | 150 | | | | | |
| | | | | | | | py | | alot of hematite on face @ end | | | | | | | | | | | | |
| | | | | | | | | | 152.4 m F.O.H. | | | | | | | | | | | | |
| 153 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : B116
CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 OF 8
COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | | |
|-----------|------------|------|--------|----------|---------|---------------------|---------|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|-------|-------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | % Cu | % Mo | | | |
| 15 | | | | | | | | <u>XENOLITHIC, COARSE-GRAINED MONZONITE PORPHYRY BRECCIA</u> | | | | | | | | 15 | 0.21 | 0.012 | | | |
| | | | | | | | | → carb brnx | | | | | | | | | | | | | |
| | | | | | | | | as described before. | | | | | | | | | | | | | |
| | | | | | | | | → quartz-carb vlt | | | | | | | | | 18 | | | | |
| | | | | | | | | 19.3 - 27.2 A lot of cave zones. | | | | | | | | | | 0.14 | 0.009 | | |
| | | | | | | | | * Cpy mainly associated w zones of high magnetite and hem, which occurs around or in c.g. monz porph fragments. | | | | | | | | | 21 | | | | |
| | | | | | | | | within the banded tuff, sulphides contained on fractures. | | | | 1-3% | 0.10% | 11398C | | | | 0.14 | 0.008 | | |
| | | | | | | | | → 1cm gouge zone. | | | | | | | | | | | | | |
| | | | | | | | | → A lot of qtz-carb in fractures. | | | | | | | | | | | | | |
| 20 | | | | | | | | ~26m - starting to get more monz. fragments. | | | | | 0.10% | 11400C | | | | 0.15 | 0.009 | | |
| | | | | | | | | cpy decreases towards contact @ 34.9m - py increases | | | | | | | | | | | | | |
| | | | | | | | | → qtz-carb zone, filled w py-hem-mag fragments getting smaller ~3-4cm | | | | 4% | 20.10% | 11401C | | | | 0.19 | 0.023 | | |
| | | | | | | | | 30m - ~25% medium grained monz porph | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : 806
 CAMMS COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 3 OF 8
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (m) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE RECY/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | |
|-----------|------------------|----------|----------|-------------|---------------------------------|------------|----------|--|-----------|---------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|-------|-------|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 30 | moderate | moderate | moderate | very strong | hem-mag-py/ep | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | | |
| | | | | | | | | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | | | | | | |
| | | | | | | | | 1m thick wall frags 4.3cm in size | | | | 3-4% | 0.10% | 11402C | | | | | 0.20 | 0.016 | |
| | | | | | | | | 34.0-34.9 Bad cave @ contact | | | | | | | | | | | | | |
| 35 | weak to moderate | moderate | moderate | moderate | mag-py-cpy-hem-MoS ₂ | | | 34.9m COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | 0.10% | 11403C | | | | 0.06 | 0.011 | | |
| | | | | | | | | -no buff fragments | | | | | | | | | | | | | |
| | | | | | | | | → pmgtz-carb vlt - subrounded, medium-grained pink colored monzonite fragments in a coarse-grained monzonite porph. matrix w/ cpy | | | | | | | | | | | | | |
| | | | | | | | | → py-cpy vlt - matrix is a greenish-pink color & pink fsp phenos, the frags are a pink matrix w/ pale green fsp frags. | | | | | | 0.15% | 11404C | | | | 0.11 | 0.026 | |
| | | | | | | | | → vuggy qtz-carb vlt - A rotational breccia w/ buff frags | | | | | | | | | | | | | |
| | | | | | | | | - up to 4% mag; 3% pyrite (fractured) matrix; increase in cpy from above. | | | | | | | | | | | | | |
| 40 | weak to moderate | moderate | moderate | moderate | mag-py-cpy-hem-MoS ₂ | | | → zone of qtz-w/3% cpy | | | | 4% | 0.25% | 11405C | | | | 0.27 | 0.096 | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | 44.0 - start of mod to strong qtz s/w w/ alot of MoS ₂ and cpy | | | | | 0.25% | 11406C | | | | 0.07 | 0.048 | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : MAY HOLE No. : B016
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 5 OF 8
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | C % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|--|---|-------------------|------------------|-------------|---------------|------------|--------------------|---------------------|--------|------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 60 | | | | | | | | | COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | 60 | | | | | |
| | | | | | | | | | @ 60.7 - Breccia texture becomes very fine-grained - frags < 1cm and rounded, - matrix pink color and has a porphyritic texture - frtng has decrease, as has the alt'n | | | | | | | | 0.02 | 0.008 | | | |
| | | | | | | | | | - the matrix color change from green to pink is due to a decrease in sericite and silica | | | | | | | | 0.01 | 0.003 | | | |
| 65 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 1cm py vlt | periodic fragments of dark green andesite | | | | | | | 0.01 | 0.004 | | | |
| | | | | | | | | | 3cm fault zone | | | | | | | | | | | | |
| | | | | | | | | | 1cm qtz vlt w Mo ₂ | | | | | | | | | | | | |
| 70 | | | | | | | | | Zone of qtz-carb w brown frags | | | | | | | | 0.01 | 0.005 | | | |
| | | | | | | | | | 71.2 - 77.0 - Box of core split | | | | | | | | | | | | |
| | | | | | | | | | * The same rock as described above w minor sections of stronger silicification | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CONE SIZE : SCALE : PROJECT : May HOLE No. : 1-16
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 8
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (m) | ALTERATION | | | | FRACTURING MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------------------|---------|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|---------|-------|------|--|
| | sericite | clay | silica | chlorite | | | | | | | | | | | | epidote | % Cu | % Mo | |
| 75 | | | | | | | COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | 75 | | | | |
| | | | | | | | 77.0 - End of split core box. Getting more matrix back in the rock ~ 40% matrix, 60% fragments - the had brought an increase in the sulfides as well. | | | | 3% | 0.10% | 11417C | | 78 | 20.01 | 0.003 | | |
| 80 | | | | | | | 1cm qtz-carbonat fragments up to 6cm in size | | | | | 0.10% | 11418C | | 81 | 0.01 | 0.003 | | |
| | | | | | | | 81.7m XENOLITHIC-COARSE GRAINED MONZONITE PORPHYRY BRECCIA - 20% e.g. monz porph matrix - 75% banded dust tuff fragments - 5% e.g. monz porph fragment. | | | | | 0.10% | 11419C | | 84 | 0.10 | 0.003 | | |
| 85 | | | | | | | - frtng very strong - brxx fragments up to 4cm in size - sulphides contained in matrix and frts - alot of hem and mag - hem staining around frts quite strong | | | | 1% | 0.10% | 11420C | | 87 | 0.05 | 0.005 | | |
| | | | | | | | Qtz-carb zone 1cm qtz-py-cpy with 1cm qtz-carbonit | | | | | 0.10% | 11421C | | 90 | 0.06 | 0.010 | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : BCF
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 OF 8
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (m) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|-------|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 90 | | | | | | | | | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | | | | | |
| | | | | | | | | | 90.4 - 108.8 Fault zone, - sand, chips & mud | | | | | 20.10% | 11422C | | | | 0.09 | 0.024 | |
| | | | | | | | | | | | | | | 20.10C | 11423C | | | | 0.04 | 0.021 | |
| 95 | | | | | | | | | | | | | | 4% | 11424C | | | | 0.04 | 0.007 | |
| | | | | | | | | | | | | | | 20.10 | 11425C | | | | 0.13 | 0.037 | |
| 100 | | | | | | | | | | | | | | 20.10 | 11426C | | | | 0.11 | 0.013 | |
| 105 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : B-16
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 8 OF 8
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | Cu % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|---|----------------------|-------------------|------------------|-------------|----------------|------------|--------------------|---------------------|--------|-------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo |
| 105 | | | | | | | | | Fault Zone | | | | | | | | | 0.09 | 0.008 |
| 110 | moderate | | | | | intense | | | 108.B End of fault zone Coarse-grained Monzonite Breccia - Qtz s/w mod developed. | | | 3% | 0.10% | 11427C | | | 108 | 0.32 | 0.019 |
| 115 | | | | | | strong | | | Sem gouge zone | | | | 0.10% | 11429C | | | 111 | 0.06 | 0.006 |
| | | | | | | | | | 2cm gouge zone | | | | 20.10% | 11430C | | | 114 | 0.03 | 0.008 |
| | | | | | | | | | long carb v.H. 117.65 E.O.H. | | | | | | | | | 0.04 | 0.005 |
| 120 | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : May HOLE No. : B-17
 CASING COLLAR ELEV. : GROUND ELEV. : 1160m DATE STARTED : September 10, 1982 PAGE No. 1 OF 11
 COORDINATES : 13435 N. 13240 E. DATE FINISHED : September 11, 1982 REF. TO CLAIM CORNER : BE-3
 INCLINATION : -50° AZIMUTH : 090° TOTAL DEPTH : 151.50 m LOGGED BY : G.L. Holland

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|--|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo |
| 0 | | | | | | | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | |
| | | | | | | | | | 0-0.38m stick-up | | | | | | | | | | |
| | | | | | | | | | 0.38-4.57m Overburden. | | | | | | | | | | |
| 5 | | | | | | | | | 4.57m ANDESITE BRECCIA. | | | | | | | | | | |
| | | | | | | | | | - pale to dark green color, matrix ground and frags has a lot of magnetite and a porphyry texture - really screwed up. | | | | | | | | | | |
| | | | | | | | | | - frags 4mm sharp contact @ 75° to G.A. | | | | | | | | | | |
| | | | | | | | | | 7.20m MEDIUM-GRAINED MONZONITE PORPHYRY | | | | | | | | | | |
| | | | | | | | | | - dark pink to orange color | | | | | | | | | | |
| | | | | | | | | | - fsp+phos - avg - 4mm - up to 6mm | | | | | | | | | | |
| | | | | | | | | | - frtng mod | | | | | | | | | | |
| | | | | | | | | | - alt'n weak. | | | | | | | | | | |
| 10 | | | | | | | | | 11.10m Brnz contact. | | | | | | | | | | |
| | | | | | | | | | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA. | | | | | | | | | | |
| | | | | | | | | | - 90% of frags are a pale green banded dust tuff, that has been frt'd and rotated | | | | | | | | | | |
| | | | | | | | | | - minor qtz-carb units w magnetite. | | | | | | | | | | |
| | | | | | | | | | - fragments up to 4cm in size. | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : may HOLE No. : B17
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|------------|----------|--|------------|----------------------|-------------------|------------------|-------------|-----------|------------|--------------------|---------------------|---------|------|------|--|
| | sericite | clay | silica | chlorite | | | | | | | | | | | | | epidote | % Cu | % Mo | |
| 15 | ↑ | ↑ | ↑ | ↑ | ↑ | Δ | <p><u>XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA</u></p> <p>- fragments mainly banded dust tuff w/ minor c.g. monz. porph. ~ 5% matrix - not enough to get a description.</p> | | | | | | 15 | 11436C | | 0.05 | 0.014 | | | |
| 18 | | | | | | Δ | <p>1.5cm qtz-carbunit. 18.6m - End of strong limonite on frts</p> | | | | | | 18 | 11437C | | 0.11 | 0.009 | | | |
| 20 | | | | | | Δ | <p>1.5cm qtz-carbunit. A lot of hematite. as salvage on fractures</p> | | | | | | 20 | 11438C | | 0.09 | 0.005 | | | |
| 22 | | | | | | Δ | <p>2.0 - frags < 3cm in size end an increase in cpy.</p> | | | | | | 22 | 11439C | | 0.33 | 0.010 | | | |
| 24 | | | | | | Δ | <p>- 60% dust tuff frags - 30% med. grnd monz porph. frags - 10% c.g. monz porph matrix</p> | | | | | | 24 | 11440C | | 0.12 | 0.020 | | | |
| 27 | | | | | | Δ | <p>1cm qtz-carbunit 2cm gouge zone</p> | | | | | | 27 | | | | | | | |
| 30 | | | | | | Δ | | | | | | | 30 | | | | | | | |

COMPOS DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : 8017
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 3 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------------------|----------|----------|------------|------------|----------|---|-----------|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|--|--|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 30 | moderate | moderate | weak | strong | mag-py-cpy | | | 1.5cm qtz-sark vult. XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA. 1.5cm qtz-sark vult. 39.2 - Rock is largely a.g. monzonite porphyry - fragments average 3cm in size - 80% frags - 75% a.g. monz. - 5% banded tuff - matrix - dark green color. - rock changes from green to pink or orange. - alot of magnetite on frags. 1cm qtz-py unit. 1cm mag unit frags sometime increase to 6cm in size. 3cm qtz-sark-py unit. | | | | 1-3% | < 0.10% | 11441C | | 30 | 0.13 | 0.049 | | | |
| 35 | moderate | weak to moderate | moderate | moderate | mag-py | | | | | | | | < 0.10% | 11442C | | 33 | 0.04 | 0.032 | | | |
| 40 | moderate | weak to moderate | moderate | moderate | mag-py | | | | | | | | < 0.10% | 11443C | | 36 | 0.05 | 0.02A | | | |
| 45 | moderate | weak to moderate | moderate | moderate | mag-py | | | | | | | | < 0.10% | 11444C | | 39 | 0.04 | 0.021 | | | |
| 45 | moderate | weak to moderate | moderate | moderate | mag-py | | | | | | | | < 0.10% | 11445C | | 42 | 0.06 | 0.022 | | | |

COMPOSITE DRILL LOG

CORE SIZE :
 CASING COLLAR ELEV. :
 COORDINATES :
 INCLINATION :

SCALE :
 GROUND ELEV. :
 NL :
 AZIMUTH :

PROJECT : May
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH :

HOLE No. : B017
 PAGE No. 5 OF 11
 NAME OF COMPANY :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | Cu % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|---|----------------------|-------------------|------------------|-------------|----------------|------------|--------------------|---------------------|--------|----|---|---|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % | % | % | % |
| 60 | ↑ | ↑ | ↑ | ↑ | ↑ | | | | COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | 60 | Cu | Mo | | |
| | | | | | | | | | → 1cm gsgc zone | | | | | | | | | | | | |
| | | | | | | | | | → 1cm Qtz vlt | | | | | | | | | | | | |
| | | | | | | | | | - minor dust tuff fragments present | | | | | | | | | | | | |
| | | | | | | | | | → 1cm Qtz-carbonat | | | | | | | | | | | | |
| 65 | | | | | | | | | - alot of mag in matrix | | | | | | | | | | | | |
| | | | | | | | | | - frags range from 1cm to 6cm in size | | | | | | | | | | | | |
| | | | | | | | | | → 1.5cm Qtz-carbonat | | | | | | | | | | | | |
| | | | | | | | | | - alt'n mod-phyllic phase | | | | | | | | | | | | |
| | | | | | | | | | - rock ~ 40% matrix | | | | | | | | | | | | |
| | | | | | | | | | - 60% c.g. monz. porph frags. | | | | | | | | | | | | |
| | | | | | | | | | MoS ₂ in frts. | | | | | | | | | | | | |
| | | | | | | | | | → 2cm Qtz-py vlt. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | → str py & cpy | | | | | | | | | | | | |
| | | | | | | | | | → 1cm py vlt. | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : B-17
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 6 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (M) | ALTERATION | | | | FRACTURING MINERALS | GEOLOGY | COMMENTS | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | |
|-----------|------------------|----------|----------|----------------|---|---------------------|----------|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|---------|------|------|--|
| | sericite | clay | silica | chlorite | | | | | | | | | | | | epidote | % CU | % MO | |
| 75 | weak to moderate | moderate | moderate | mag-py - (cpy) | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | DESCRIPTIVE GEOLOGY | | | 2-3% | <0.10% | <0.10% | 11456C | | 75 | 0.06 | 0.008 | | | |
| 78 | | | | | | | | | | | | | | | 0.03 | 0.011 | | | |
| 81 | | | | | | | | | | | | | | | 0.03 | 0.011 | | | |
| 84 | | | | | | | | | | | | | | | 0.05 | 0.006 | | | |
| 87 | | | | | | | | | | | | | | | 0.07 | 0.005 | | | |
| 85 | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | | | |

sericite
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chlorite
epidote

fracturing
minerals
geology

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COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : May HOLE No. : 8017
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 OF 11
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (m) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|---|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|--|--|
| | Sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | |
| 90 | | | | | | | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | |
| | | | | | | | | | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | | | | | |
| | | | | | | | | | sulphides contained in ferts and the matrix | | | | | | | | | | | | |
| | | | | | | | | | Zone of qtz-carb. | | | | | | | | | | | | |
| 95 | | | | | | | | | MoS ₂ on fractures | | | | | | | | | | | | |
| | | | | | | | | | 1cm gouge zone | | | | | | | | | | | | |
| | | | | | | | | | 0.8cm qtz-carb vein | | | | | | | | | | | | |
| | | | | | | | | | qtz-carb zone. | | | | | | | | | | | | |
| | | | | | | | | | 2cm gouge zone | | | | | | | | | | | | |
| | | | | | | | | | 3cm gouge zone. | | | | | | | | | | | | |
| | | | | | | | | | 2cm gouge zone | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | |
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| 105 | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE NO. : SCALE : PRO. : MAY
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED :
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH :
 HOLE No. : 17
 PAGE No. 8 OF 11
 REF. TO CLAIM CORNER :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | C % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | |
|-----------|------------|------|--------|----------|------------|----------|---------|---|----------------------|-------------------|------------------|-------------|---------------|------------|--------------------|---------------------|---------|-------|
| | sericite | clay | silica | chlorite | | | | | | | | | | | | | epidote | % |
| 105 | | | | | | | | | | | | | | | | | | |
| | | | | | strong | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | |
| | | | | | | | | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA | | | | | | | | | | |
| | | | | | | | | 106-109.5 Cave zone | | | | | 40.10% | 11466C | | 105 | 0.04 | 0.027 |
| | | | | | | | | 2cm gauge zone. MoS ₂ and mag on frts. | | | | | 40.10% | 11467C | | 106 | 0.03 | 0.004 |
| 110 | | | | | | | | 1cm qtz unit. | | | | | 40.10% | 11468C | | 111 | 0.04 | 0.003 |
| | | | | | | | | Alt'n weak to moderate. | | | | | 40.10% | 11469C | | 114 | | |
| | | | | | | | | 1cm qtz-carb unit | | | | | 40.10% | 11470C | | 117 | | |
| | | | | | | | | 3cm qtz-carb unit | | | | | 40.10% | 11470C | | 117 | | |
| 115 | | | | | | | | 115.5-117.7 - Fault zone w alot of cave, gouge and qtz-carb. - alt'n strong - phyllic | | | | | 40.10% | 11470C | | 117 | 0.10 | 0.009 |
| | | | | | | | | 117.7m | | | | | 40.10% | 11470C | | 117 | | |
| | | | | | | | | SAME UNIT AS ABOVE EXCEPT | | | | | 40.10% | 11470C | | 117 | | |
| | | | | | | | | There is a sudden change in fragments | | | | | 40.10% | 11470C | | 117 | 0.17 | 0.027 |
| | | | | | | | | - 70% andesite frags | | | | | 40.10% | 11470C | | 117 | | |
| | | | | | | | | - 10% c.g. monz porph frags | | | | | 40.10% | 11470C | | 117 | | |
| | | | | | | | | - 20% c.g. monz porph matrix | | | | | 40.10% | 11470C | | 117 | | |
| 120 | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SIZE :
 CASING COLLAR ELEV. :
 COORDINATES :
 INCLINATION :

SCALE :
 GROUND ELEV. :
 N. E.
 AZIMUTH :

PROJECT : May
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH :

HOLE No. : B-17
 PAGE No. 9 OF 11
 REF. TO CLAIM CORNER :
 LOGGED BY :

| DEPTH (M) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS | | | | | |
|-----------|------------|----------|--------|------------------|----------------------------|-----------------------------|---------------------|---|------------|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|------|-------|--|--|
| | Sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | | | |
| 120 | weak | moderate | strong | py - (cpy) - MoS | 128.0 - 139.7 - Fault zone | 128.0 - F.D.H. - Fault zone | DESCRIPTIVE GEOLOGY | XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA - could be formed on Andesite breccia w/ minor e.g. monz. porph frags - rock is dark green to purple color - a lot of hematite. - sulfides confined to frts - alt in moderately developed - a lot of qtz-carb in the frts - fragments range up to 4cm in size slight increase of cpy towards fault zone 128.0 - F.D.H. - Fault zone - minor sections of cave, other sections of sand. 128.9 - 139.7 - Bad paving w/ a lot of gauge. 30cm gauge 30cm gauge 50cm gauge 40cm gauge zone | | | | 1-2% | 40.10% | 11473C | | 120 | 0.11 | 0.009 | | | | | |
| 123 | | | | | | | | | | | | | | | | | 40.10% | 11472C | 123 | 0.10 | 0.031 | | |
| 126 | | | | | | | | | | | | | | | | | 0.10% | 11473C | | 0.05 | 0.011 | | |
| 129 | | | | | | | | | | | | | | | | | 40.10% | 11474C | 129 | 0.02 | 0.009 | | |
| 132 | | | | | | | | | | | | | | | | | 40.10% | 11475C | 132 | 0.07 | 0.005 | | |

COMPOSITE DRILL LOG

| | | | |
|-----------------------|----------------|-----------------|------------------------|
| CORE NO. : | SCALE : | PROJ. : | HOLE No. : B 07 |
| CASING COLLAR ELEV. : | GROUND ELEV. : | DATE STARTED : | PAGE No. 10 OF 11 |
| COORDINATES : N. E. | | DATE FINISHED : | REF. TO CLAIM CORNER : |
| INCLINATION : | AZIMUTH : | TOTAL DEPTH : | LOGGED BY : |

| DEPTH (m) | ALTERATION | | | | | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | % ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | | |
|-----------|------------|------|--------|----------|---------|------------|----------|---------|--|----------------------|-------------------|------------------|-------------|-------------|------------|--------------------|---------------------|--------|------|------|--|-------|
| | sericite | clay | silica | chlorite | epidote | | | | | | | | | | | | | % Cu | % Mo | | | |
| 135 | | | | | | | | | <p style="text-align: center;">DESCRIPTIVE GEOLOGY</p> <p style="text-align: center;">XENOLITHIC COARSE-GRAINED MONZONITE PORPHYRY BRECCIA</p> <p style="text-align: center;"><u>FAULT ZONE</u></p> <p style="text-align: center;">- consists of sand, small chips, and minor larger chips</p> | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | | | | | | | | | |
| 145 | | | | | | | | | | | | 1-2% | 40.10% | 11475C | | | | | | 0.07 | | 0.005 |
| 150 | | | | | | | | | | | | | | | | | | | | | | |

COMPOSITE DRILL LOG

CORE SID. : SCALE : PROJ. : *May.* HOLE No. : *B 7*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *11* OF *11*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

| DEPTH (m) | ALTERATION | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS | | | | | |
|-----------|------------|------------|----------|-------------|---------------------|----------------------|-------------------|------------------|-------------|-----------|------------|--------------------|---------------------|--------|------|-------|--|--|--|
| | | | | | | | | | | | | | | % Cu | % Mn | | | | |
| 150 | | | | | DESCRIPTIVE GEOLOGY | | | | | | | | | | | | | | |
| | | | | X X X | Fault zone. | | | | | | | | | | 0.07 | 0.005 | | | |
| | | | | | 151.5 End of hole. | | | | | | 11475e | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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APPENDIX B

DRILL ASSAYS

Contained in separate folio,
to be held in confidence for
a 5 year period commencing
October, 1982.

APPENDIX C

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

The field work for the report was done by the following persons whose qualifications are outlined below:

G. L. Holland, Geologist for Utah Mines Ltd., Vancouver, British Columbia. Completed B.Sc (Geology) at the University of British Columbia in 1978; employed as a temporary Geological Assistant during the summer field seasons in 1973, 1974 and 1975 by Noranda Exploration Co. Ltd.; employed as a temporary Geological Assistant during the summer field seasons of 1976 and 1977 by Utah Mines Ltd.; employed as a Geologist by Utah Mines Ltd. from May 1st, 1978 to date, under the supervision of A. J. Schmidt, P.Eng.

APPENDIX D

STATEMENT OF COSTS

STATEMENT OF COSTS

| | | | |
|---------------------|-----------------------------|--------------------|----------------|
| Wages | - permanent | - \$3,355.00 | |
| | - temporary | - 3,024.00 | |
| | | <u>\$6,379.00</u> | - \$ 6,379.00 |
| Helicopter | - contract | - \$12,749.00 | |
| | - casual charters | - 26,241.29 | |
| | | <u>\$38,988.29</u> | - 38,988.29 |
| Fixed Wing | - charters | | - 1,462.16 |
| Assay Costs | - Chemex Labs Ltd. | | - 8,729.45 |
| Expediting Costs | - Bema Industries Ltd. | | - 455.41 |
| Fuel Costs | | | - 1,070.35 |
| Camp Supplies | | | - 7,039.49 |
| Communication Costs | | | - 843.66 |
| Drilling Costs | - J.T. Thomas Drilling Ltd. | | - 61,601.65 |
| Frieght Costs | | | - 3,385.05 |
| Miscellaneous | | | <u>500.00</u> |
| | Total Costs | | - \$130,454.51 |

UTAH MINES LTD.

EXPLORATION DEPARTMENT

SUITE 1600, 1050 W. PENDER STREET • VANCOUVER, B.C., CANADA V6E 3S7
(604) 683-6921

October 25, 1982

Mining Recorder & Claims Inspector
Prince Rupert, B.C.

Dear Sir:

Re: Assessment Report - BE Groups 1 & 2

Please find attached two copies of "Appendix B - Assay Logs", which form an integral part of the above report.

In compliance with Mineral Act Regulation C 1 (7), I am requesting a confidential period of five (5) years to be placed upon the separate Assay Logs.

Please advise me if this cannot be granted.

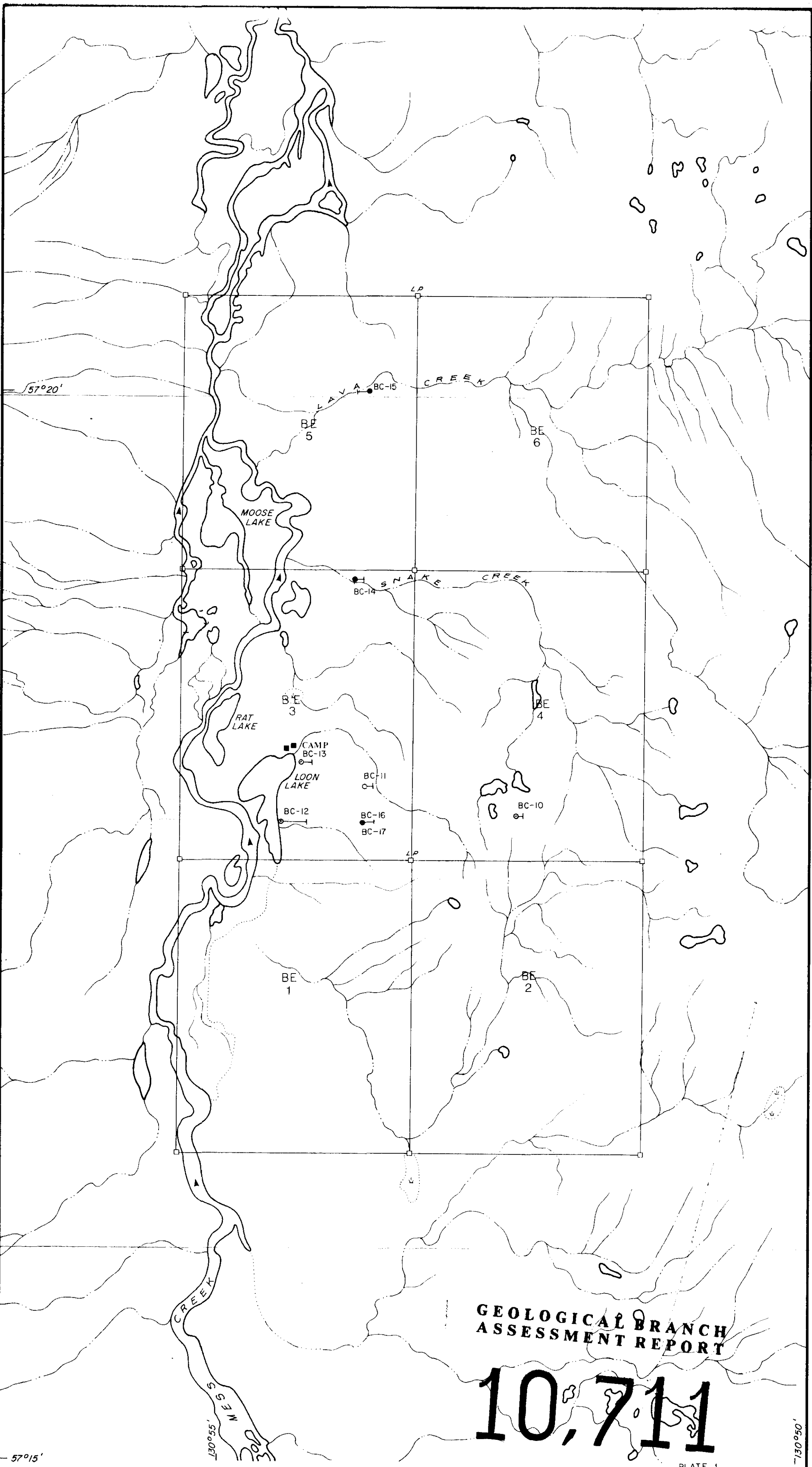
Yours truly,



G.L. Holland
Geologist

GLH/cs

Attach.







**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

10,711

PLATE 1

LEGEND:

-  Diamond drillhole coller and direction
-  Lake
-  Creek (showing flow)
-  Claim Post

UTAH MINES LTD.
EXPLORATION DEPARTMENT
VANCOUVER BRITISH COLUMBIA

MAY PROPERTY

DRILLHOLE LOCATIONS

