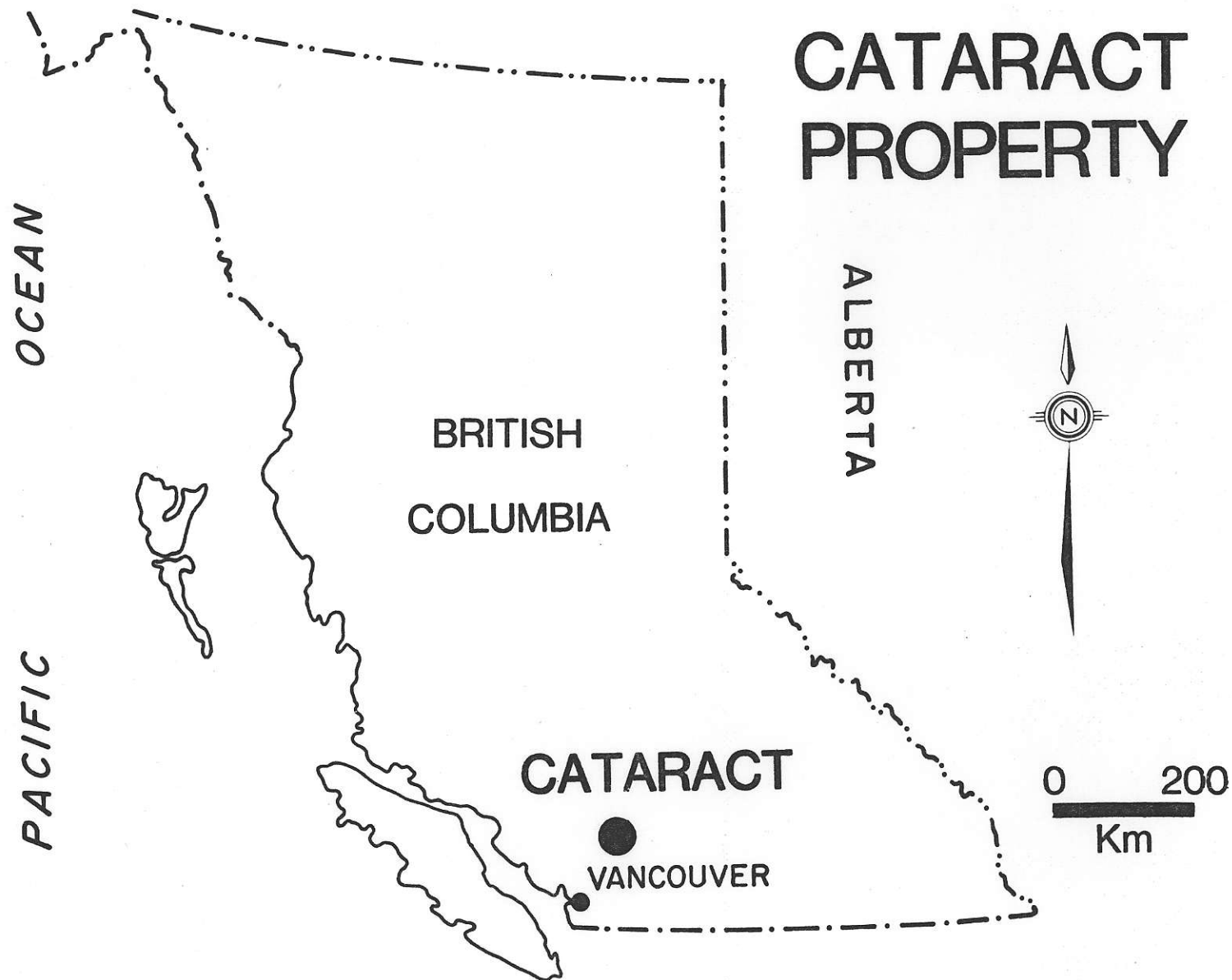


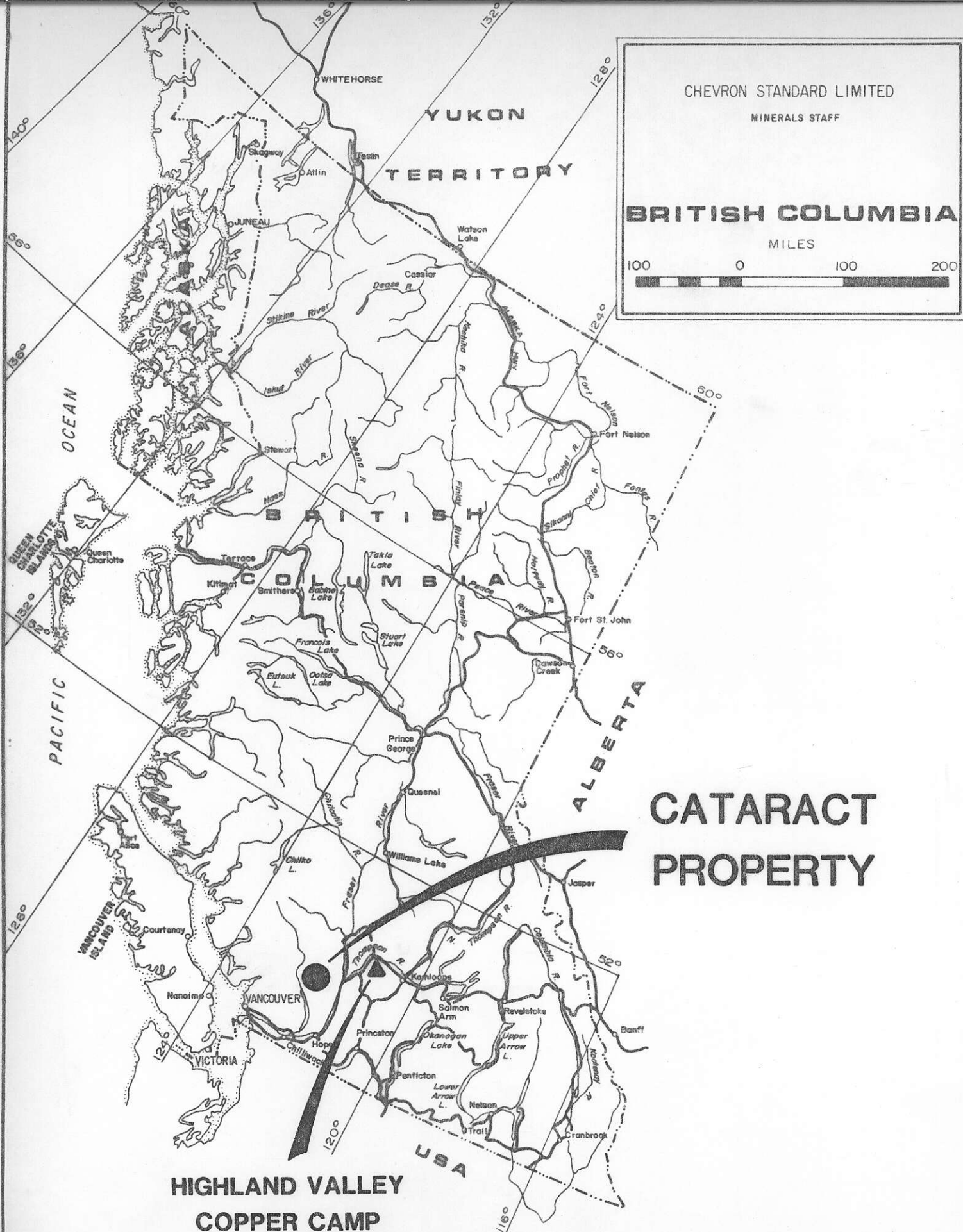


LOCATION MAP
FIG 1

841603

M-518

NOV 82



CHEVRON STANDARD LIMITED

MINERALS STAFF

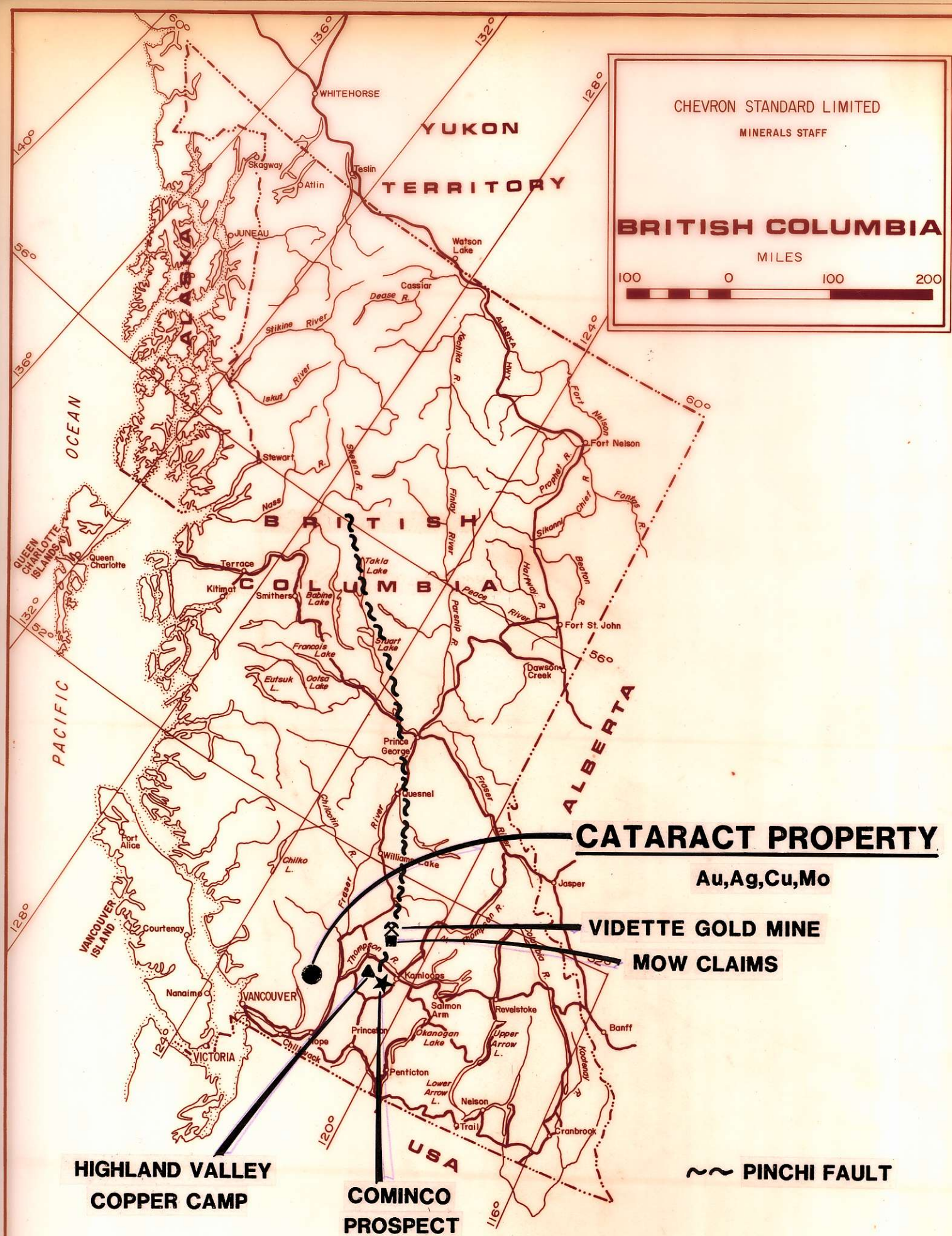
BRITISH COLUMBIA

MILES

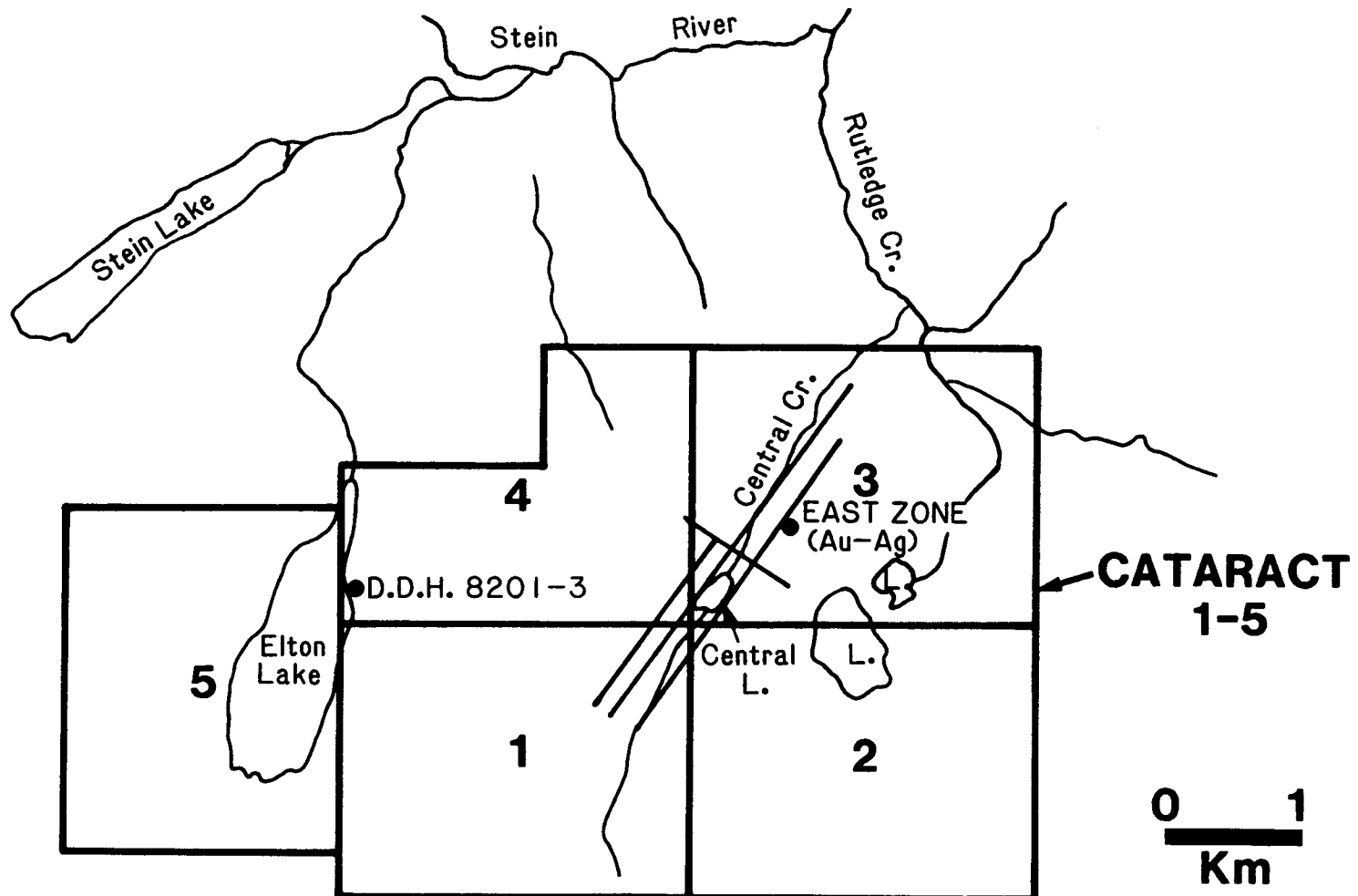


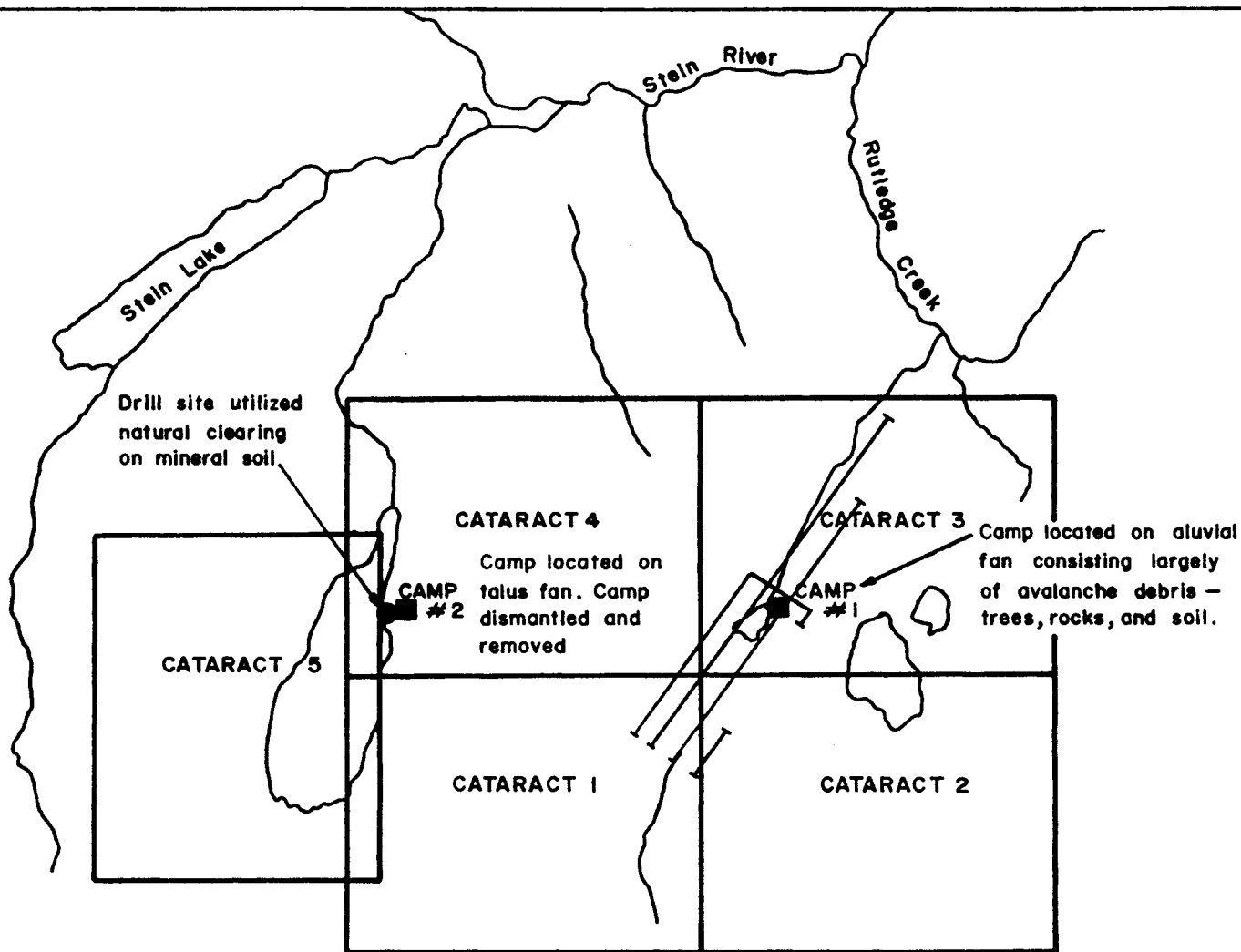
CATARACT PROPERTY

HIGHLAND VALLEY
COPPER CAMP



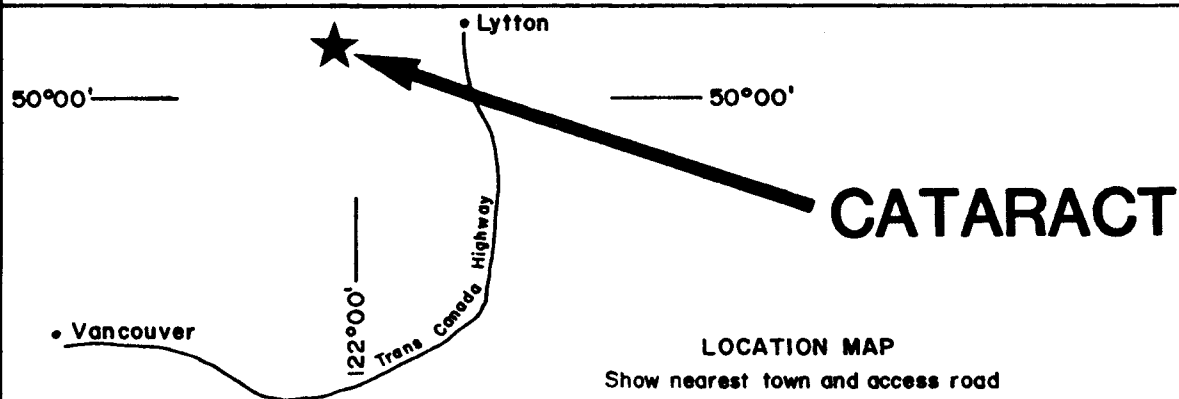
CATARACT - CLAIM MAP





PLAN

Indicate claim boundaries, permanent watercourses, access road and distance to nearest town, proposed roads, test pits, trenches, adits, drill sites, and camp sites.

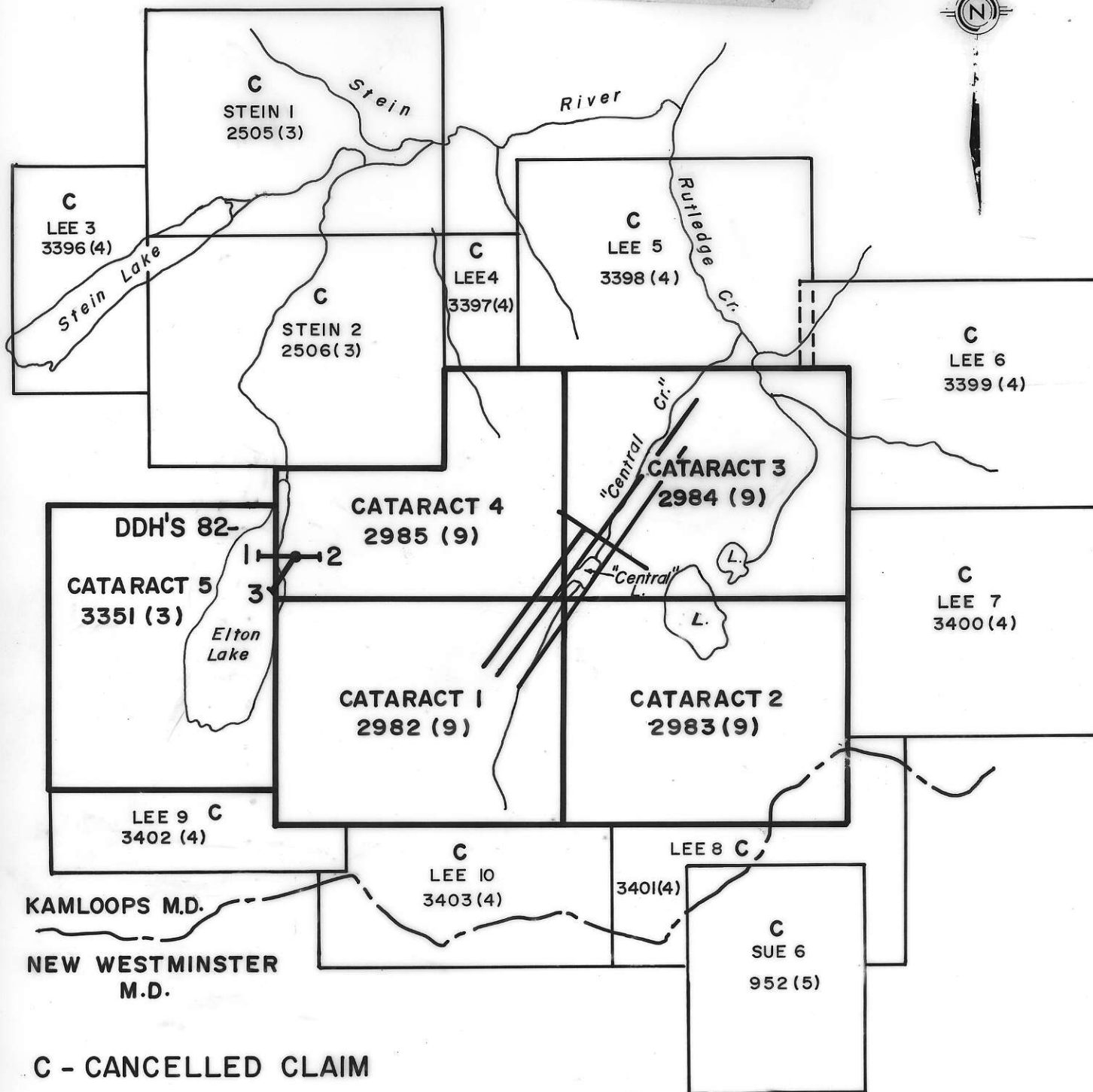


LOCATION MAP

Show nearest town and access road

Note position of
1982 add'l's OK but
horizontal squarish

most up to date
claim map
current 1983 JAN



CATARACT PROPERTY

M 518

NOV 82

P R O J E C T D A T A S U M M A R Y

Project Title: CATARACT Project Number: M518 Date: January 3, 1984
By: R. U. Bruaset *RUBMAST*
Location: Southwestern B.C., Canada
Chevron Interest: 100% with 15% N.P.I. to vendor
Other Participation: None
Operator: Chevron Canada Resources Limited
Land Summary: 5 claims @ 20 units Acreage 2500 hectares Annual Rental Assessment Work: \$200 per unit per year
Geologic Concept: Au-Ag occurs with base metal sulphides and magnetic minerals in a breccia at the margin of a collapsed Miocene caldera. Meteoric hydrothermal solutions convected by a dioritic intrusion redistributed Mn, Fe, Pb-Zn and Au-Ag occurring in the Miocene volcanics and the Paleozoic basement depositing garnet, sericite, quartz, pyrrhotite, magnetite, sphalerite, galena, gold and silver in, and adjacent to, a breccia which was the principal conduit of ore solutions.

Accomplishments to Date:

- (1) Indicating an overall favourable structural setting for caldera margin gold deposits.
- (2) Defining a drill target of the size potential that Chevron requires.
- (3) Intersecting 10 feet of 0.11 oz/ton Au in the edge of the drill target.

Chevron Expenditures: pre-1983 \$290,000. US 1983 \$220,000. US

1 9 8 4 B U D G E T P R O P O S A L

Proposed Budget: Firm \$120,000. To Mature \$ nil

Manpower: Chevron Man-months 5 Temporary Man-months 3

Recommended Program: A total of 750 m of diamond drilling in 3 holes to test the extension of the breccia under a prominent mag anomaly and coincident Au-Ag, Pb-Zn, Mn soil anomalies.

Program Objectives: Two or more intersections in the 0.2 to 0.3 oz/ton range across widths of 25 to 50 m.

CATARACT

1983 DIAMOND DRILLING SUMMARY

<u>DDH</u>	<u>From to (ft)</u>	<u>Intercept (ft)</u>	<u>Au</u>		<u>Ag</u>	
			<u>g/tonne</u>	<u>oz/ton</u>	<u>g/tonne</u>	<u>oz/ton</u>
8301	75 - 80	5	0.9	0.026	56.0	1.63
8301	190 - 195	5	2.8	0.082	10.3	0.3
8302	50 - 55	5	0.5	0.015	33.5	0.98
8302	260 - 270	10	3.6	0.11	32.0	0.93
8303	100 - 110	10	0.5	0.015	39.5	1.15
8303	170 - 180	10	1.1	0.03	20.5	0.029
8304	90 - 98	8	1000 ppb	0.029	57.0 ppm	1.66
8304	460 - 461	1	5.1	0.15	92.0 ppm	2.68
8305	80 - 85	5	195 ppb		84.0 ppm	2.45
8305	130 - 135	5	375 ppb		28.0 ppm	0.82
8306	195 - 200	5	1050 ppb	~0.03	46.0 ppm	1.34

CATARACT

ACCOMPLISHMENTS TO DATE

- (1) INDICATING AN OVERALL FAVOURABLE STRUCTURAL SETTING FOR CALDERA MARGIN GOLD DEPOSITS.
- (2) DEFINING A DRILL TARGET OF THE SIZE POTENTIAL THAT CHEVRON REQUIRES.
- (3) INTERSECTING 10 FEET OF 0.11 OZ/TON AU IN THE EDGE OF THE DRILL TARGET.

CATARACT - EAST ZONE

FAVOURABLE INDICATORS OF ECONOMIC GOLD MINERALIZATION

- (1) POTENTIAL ORE STRUCTURE CONTAINING HIGHLY ANOMALOUS GOLD IN MIOCENE COLLAPSED CALDERA SETTING, WELL DEFINED DRILL TARGET, SIZE POTENTIAL $>1 \text{ M OZ.}$
- (2) ORE CONTROLS AS BRECCIAS AND FAULTS
- (3) MINERALIZATION ASSOCIATED WITH LATE IGNEOUS EVENT POST DATING CALDERA COLLAPSE
- (4) AT LEAST TWO MINERALIZING EVENTS INDICATED
- (5) WIDESPREAD ALTERATION AND SULPHIDE MINERALIZATION
- (6) POTENTIAL SOURCE ROCK OF AU IN BASEMENT METAMORPHICS
- (7) PRESERVATION OF FAVOURABLE HOST ROCKS THROUGH BLOCK FAULTING
- (8) GOOD POTENTIAL FOR THE PERMEABILITIES REQUIRED TO CONVECT METEORIC ORE SOLUTIONS

CATARACT - EAST ZONE
FAVOURABLE INDICATORS FOR ECONOMIC GOLD MINERALIZATION

- (1) MIOCENE CALDERA-RIM STRUCTURAL SETTING
- (2) THE PRECIOUS-BASE METAL PORPHYRY MARGIN ASSOCIATION
- (3) ORE CONTROLS SUCH AS BRECCIAS, FAULT INTERSECTIONS AND THROUGH-GOING FAULTS.
- (4) BRECCIAS CONTAINING STRONG BASEMENT COMPONENT, MAY HAVE CONSIDERABLE VERTICAL DIMENSIONS IN A THICK VOLCANIC PILE
- (5) POSSIBILITY OF MORE THAN ONE PRECIOUS METAL MINERALIZING EVENT
- (6) WIDESPREAD HYDROTHERMAL ALTERATION AND SULPHIDE MINERALIZATION (SERICITIZATION, SILICIFICATION, POTASSIC, PYRITIZATION, BASE METAL SULPHIDES)
- (7) PROXIMITY TO PORPHYRY SYSTEM WITH ABUNDANT FREE SILICA
- (8) POSSIBLE GOLD SOURCE ROCK IN THE FORM OF BASEMENT METAMORPHICS
- (9) PRESERVATION OF FAVOURABLE HOST ROCKS THROUGH BLOCK FAULTING
- (10) OVERALL FAVOURABLE SETTING FOR ORE SOLUTION TRANSPORT BY MEANS OF CONVECTION

CATARACT SOIL SAMPLES LINE 0+00
FROM 5+755 TO 8+25N

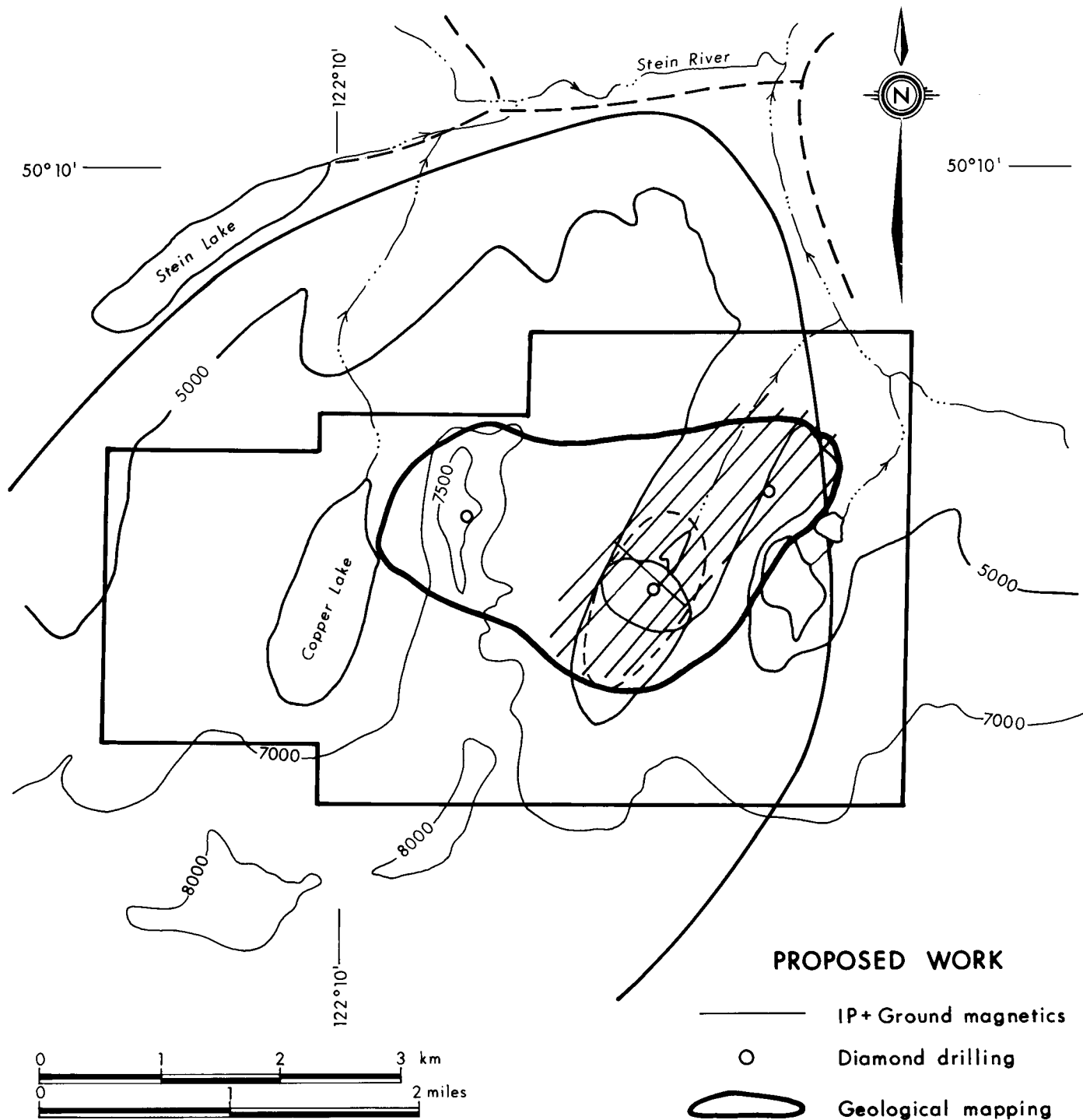
SAMPLE SITE	Au ppb	Au oz/t	Ag ppm	Pb ppm	Zn ppm	Cu ppm	Mn ppm	W ppm	Mo ppm
CAT LO+00 5+75S	30		0.5	48	96	25	480	1	1
Coarse talus slope. No sampling.									
CAT LO+00 0+25S	10		0.9	57	117	210	355	20	1
CAT LO+00 0+75N	100		18.1	4200	2150	200	3800	6	5
CAT LO+00 1+25N	700		18.2	3800	880	320	3650	4	3
CAT LO+00 1+75N	575		18.3	7100	2050	350	5450	2	4
CAT LO+00 2+25N	3925		22.0	7450	2200	450	7700	5	8
CAT LO+00 2+90N	>10000	0.36	44.0	>10000	3050	600	5600	7	6
CAT LO+00 3+25N	>10000	0.28	>100.0	9750	2650	600	4850	2	5
CAT LO+00 3+50N	>10000	0.51	58.0	>10000	2850	550	5850	7	10
CAT LO+00 3+75N	9900		65.0	>10000	2650	450	4200	5	6
CAT LO+00 4+25N	800		23.0	9050	9000	410	6850	1	2
CAT LO+00 4+75N	35		2.6	570	1300	72	1150	3	7
CAT LO+00 5+25N	45		2.1	465	360	49	500	4	6
CAT LO+00 5+75N	15		1.9	430	265	26	695	2	2
CAT LO+00 6+25N	40		1.9	220	154	21	590	1	1
CAT LO+00 6+75N	30		1.6	430	1000	52	2400	1	3
CAT LO+00 7+25N	20		0.8	96	169	14	1050	1	1
CAT LO+00 7+75N	10		1.2	102	130	12	550	1	1
CAT LO+00 8+25N	15		0.8	118	59	12	750	1	1

GOLD

> 0.99 g/tonne (>0.029 oz/ton)

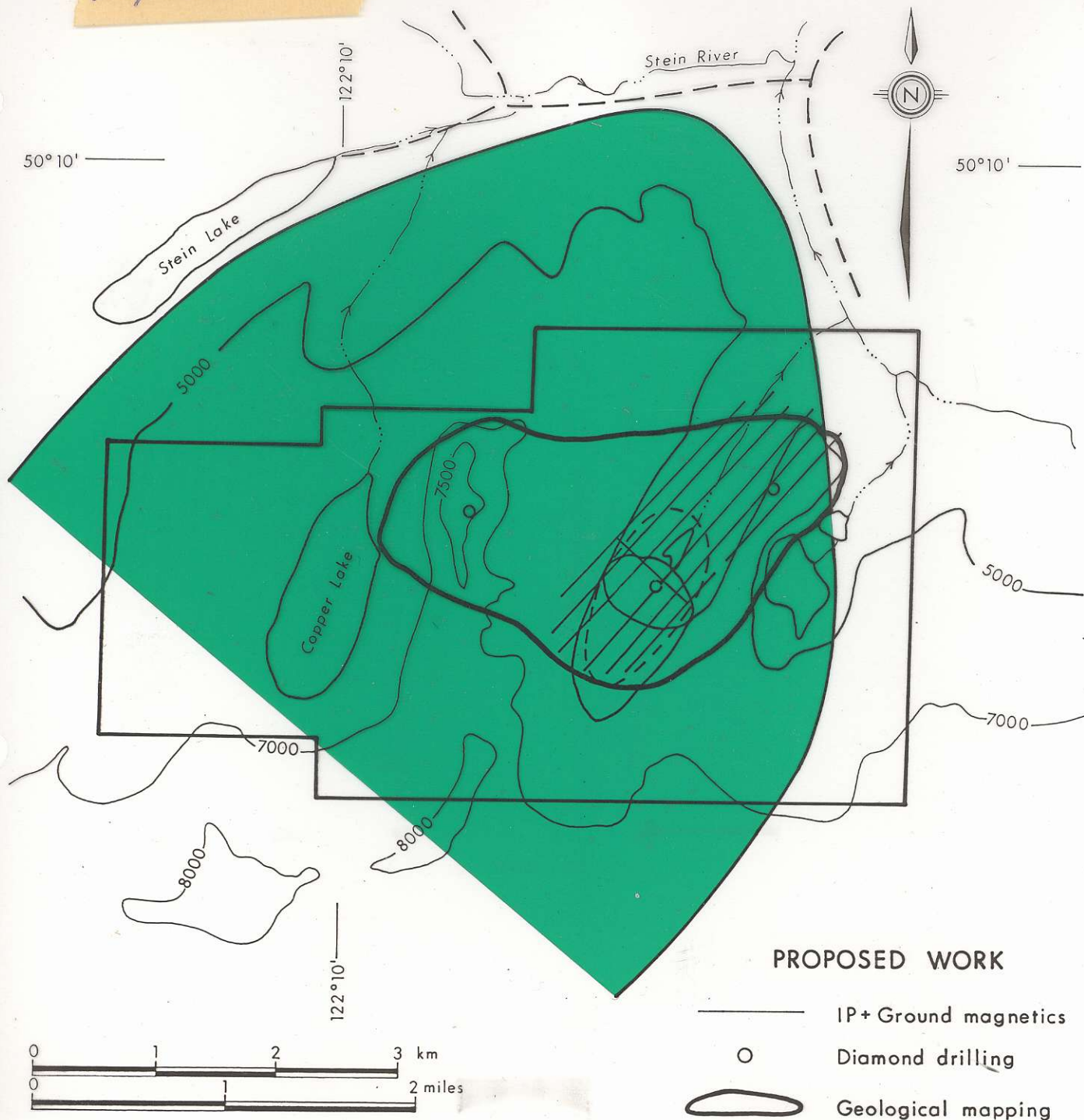
0.5 – 0.99 g/tonne (0.015 – 0.029 oz/ton)

0.1 – 0.49 g/tonne (0.003 – 0.0149 oz/ton)



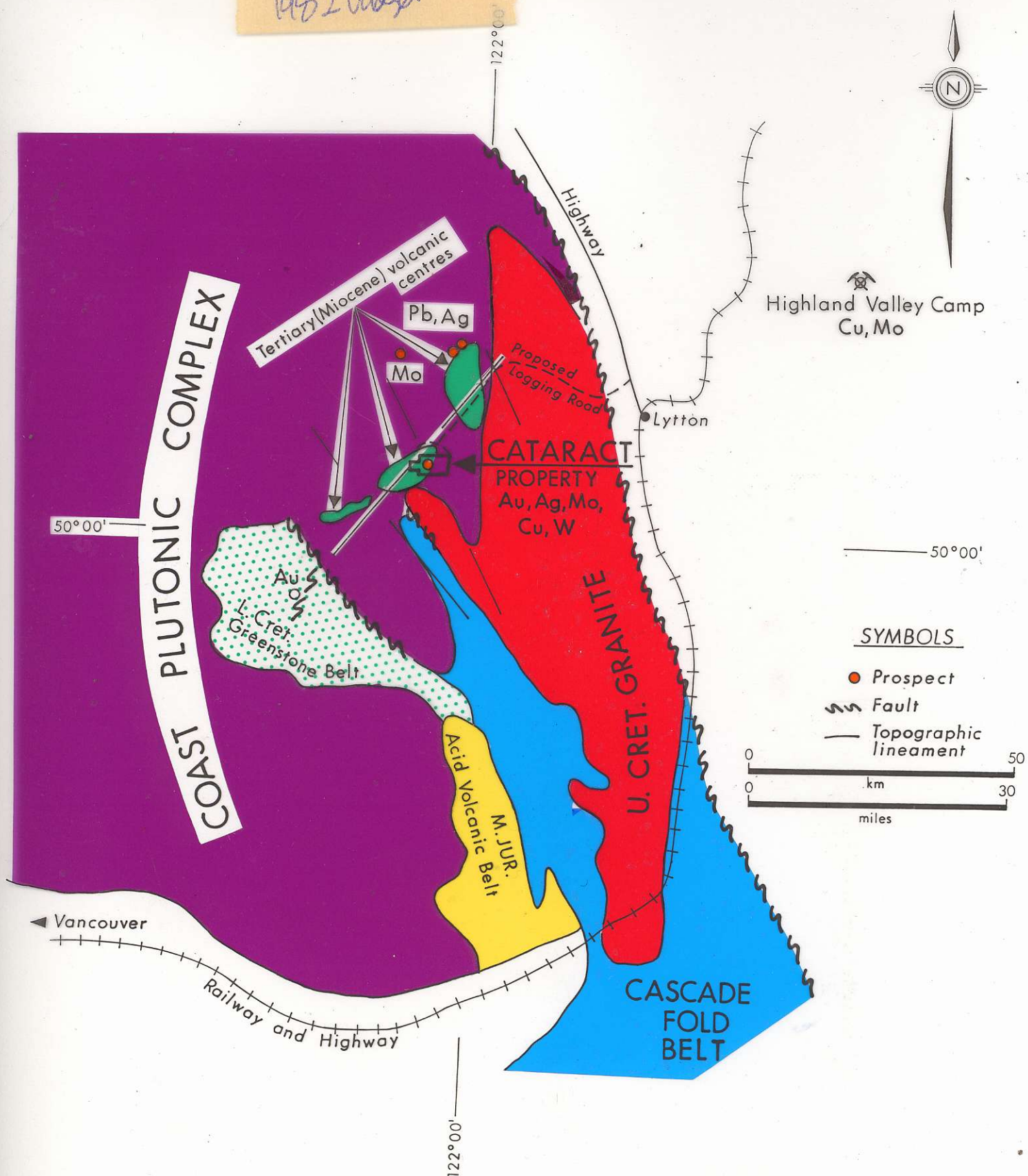
CATARACT 92 J/1

For 1982 budget
superseded

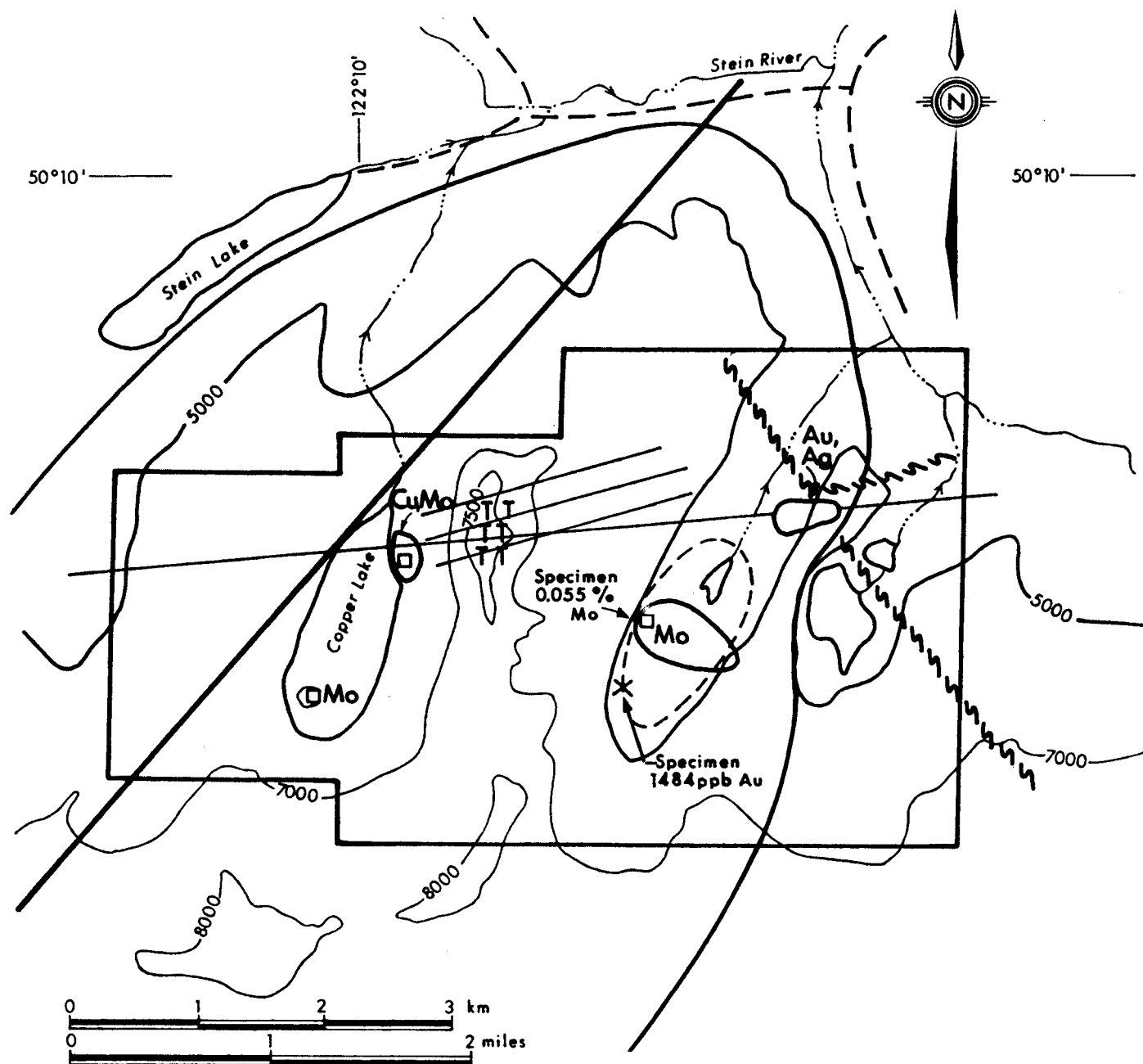


CATARACT 92 J/1

Superseded
1982 Budget



CATARACT PROJECT



TERTIARY (Miocene ?)

- Quartz diorite, quartz porphyry, quartz feldspar porphyry
- Acid volcanics, rhyolite, rhyolite breccia
- Intermediate to basic volcanics. lapilli tuff, bedded tuff, basalt

CRETACEOUS or OLDER

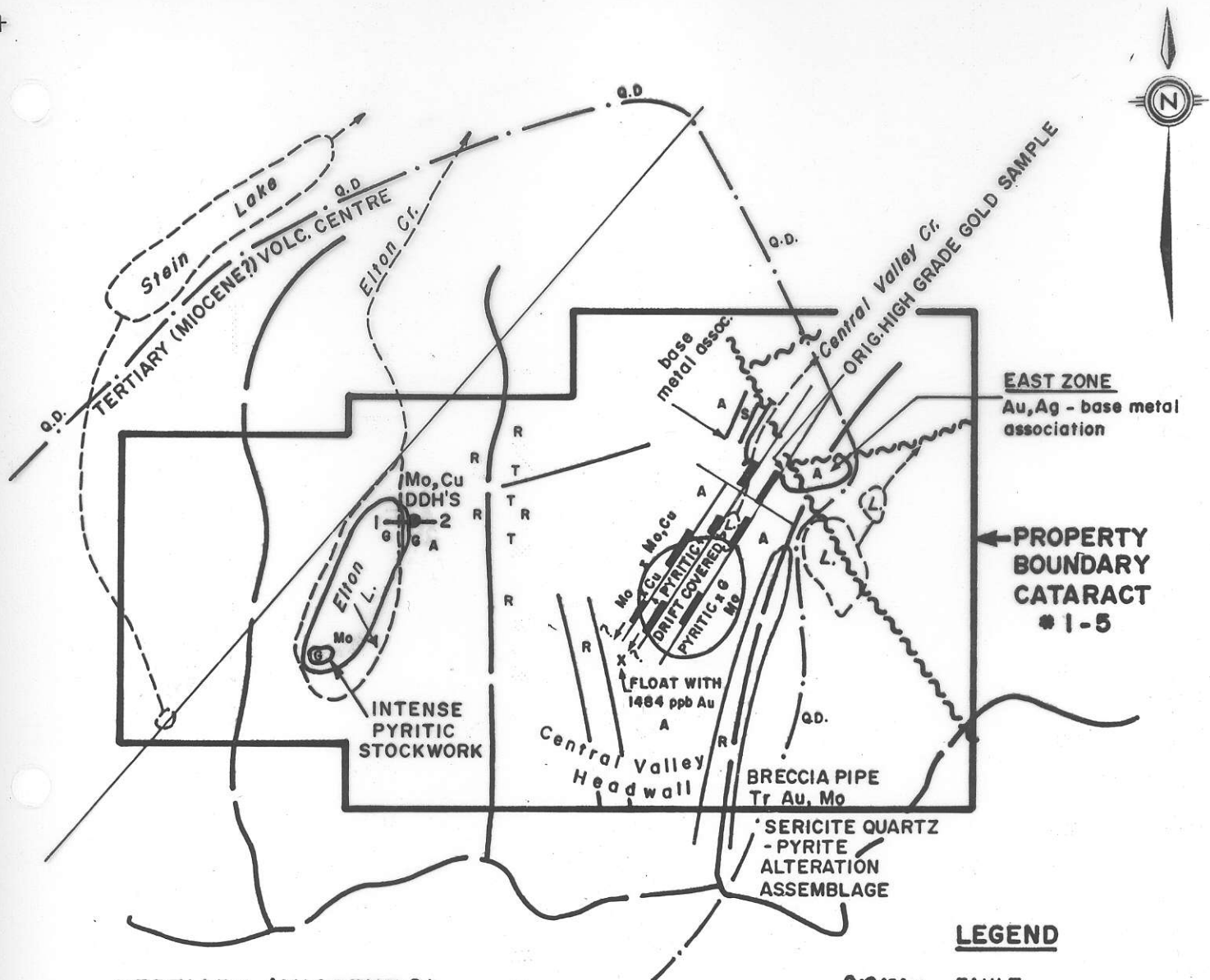
- Granitic rocks

SYMBOLS

- Tourmaline bearing acid volcanic breccias
- Fault
- Lineament
- Stockwork Mo
- Soil, rock geochemical anomaly
- Proposed logging road

CATARACT PROJECT

GEOLOGY



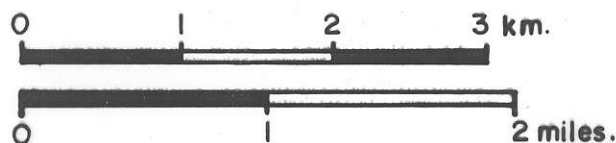
TERTIARY (MIOCENE?)

- G** QUARTZ MONZONITE, GRANITE, APLITE, QUARTZ-FELDSPAR PORPHYRY (?)
- R** RHYOLITE FLOWS, PYROCLASTIC, BRECCIAS
- A** INTERMEDIATE AND ACID VOLCANICS. FLOWS, PYROCLASTICS

CRETACEOUS OR OLDER

- Q.D.** QUARTZ DIORITE
- S** SCHIST

- ### LEGEND
- FAULT
 - LINEAMENT
 - TOURMALINE
 - RECON. SOIL/SILT LINE
 - 1982 I.P., MAG., S.P. GRID
 - 1982 HOLES #1,2
 - IP ANOMALY. OPEN, DEFINED
 - MAJOR DIVIDE
 - LAKE



CATARACT PROJECT - GEOLOGY



TERTIARY (Miocene ?)		SYMBOLS	
++	Quartz monzonite, granite, aplite, quartz feldspar porphyry(?)	R	Acid volcanics, rhyolite, rhyolite breccia
A	Intermediate and acid volcanics. Flows, pyroclastics	T	Tourmaline bearing acid volcanic breccias
CRETACEOUS or OLDER			Fault
G	Quartz diorite		Lineament
			Stockwork Mo
			Soil, rock geochemical anomaly
			Proposed logging road

CATARACT PROJECT GEOLOGY

1982 budget
superseded.

CATARACT PROJECT

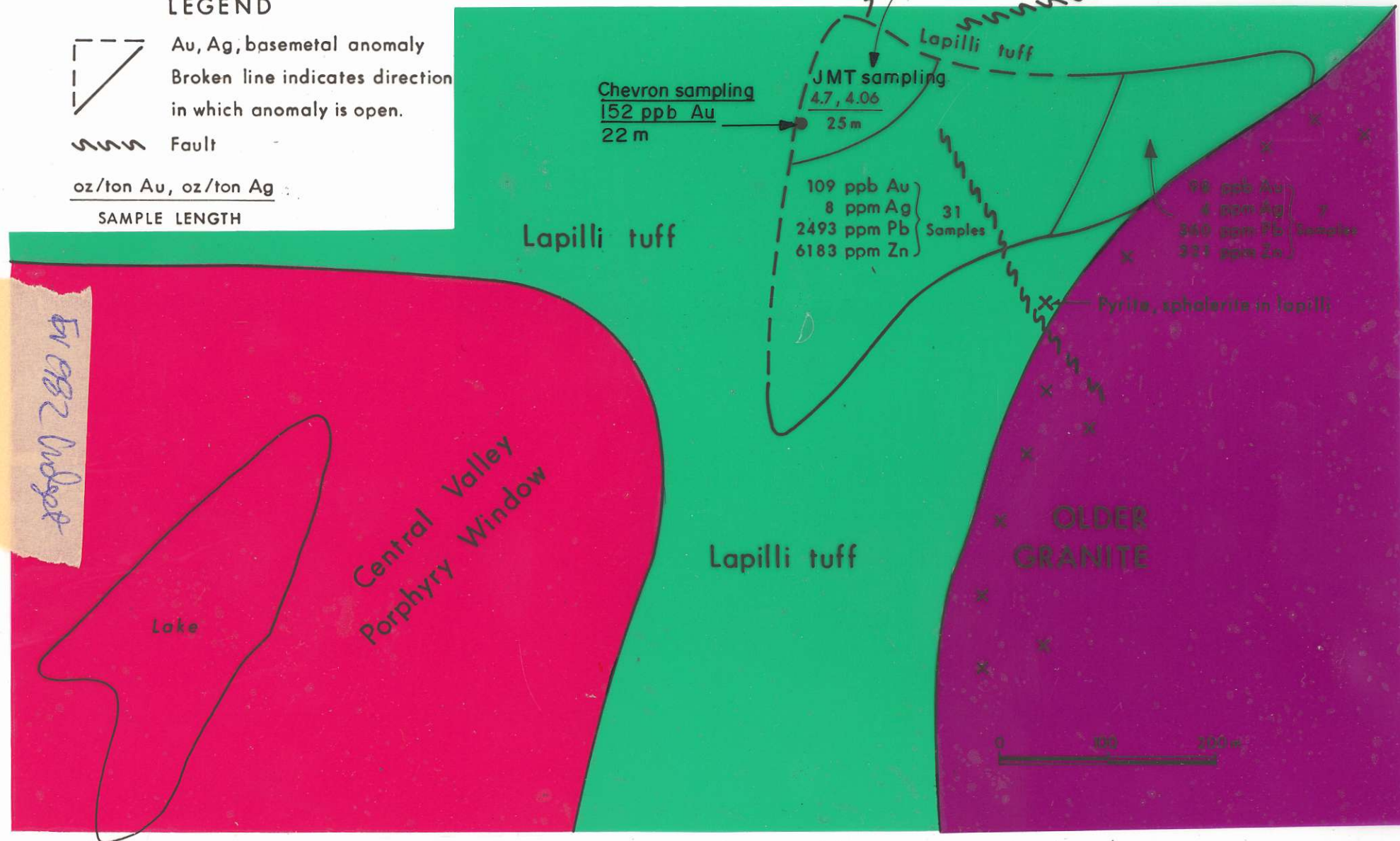
EAST ZONE

LEGEND

-  Au, Ag, basemetal anomaly
-  Broken line indicates direction in which anomaly is open.
-  Fault

oz/ton Au, oz/ton Ag

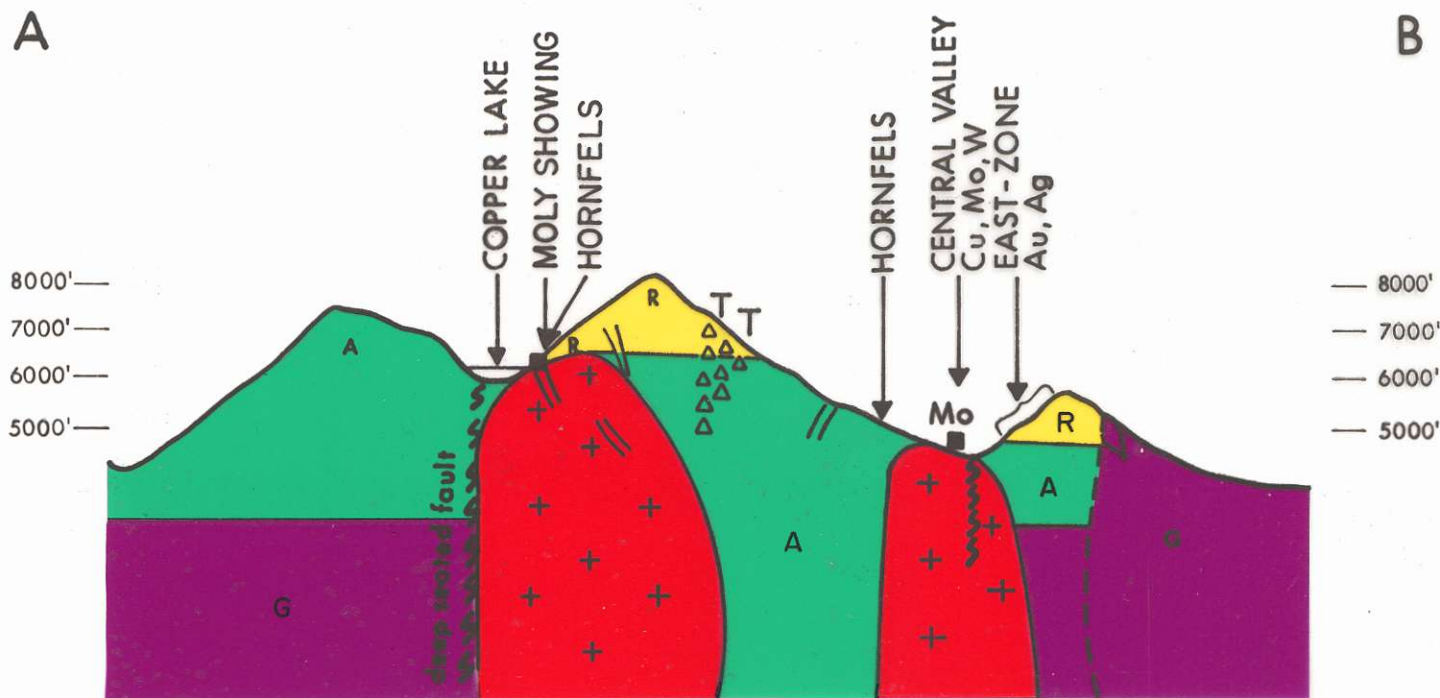
SAMPLE LENGTH



EW 082 Indigo

CATARACT PROPERTY

Cross-section looking Northerly



TERTIARY (miocene?)

- ++ Quartz monzonite, granite, aplite, quartz feldspar porphyry(?)
- R Acid volcanics, rhyolite, rhyodacite
- A Intermediate and acid volcanics. Flows, pyroclastics

CRETACEOUS or OLDER

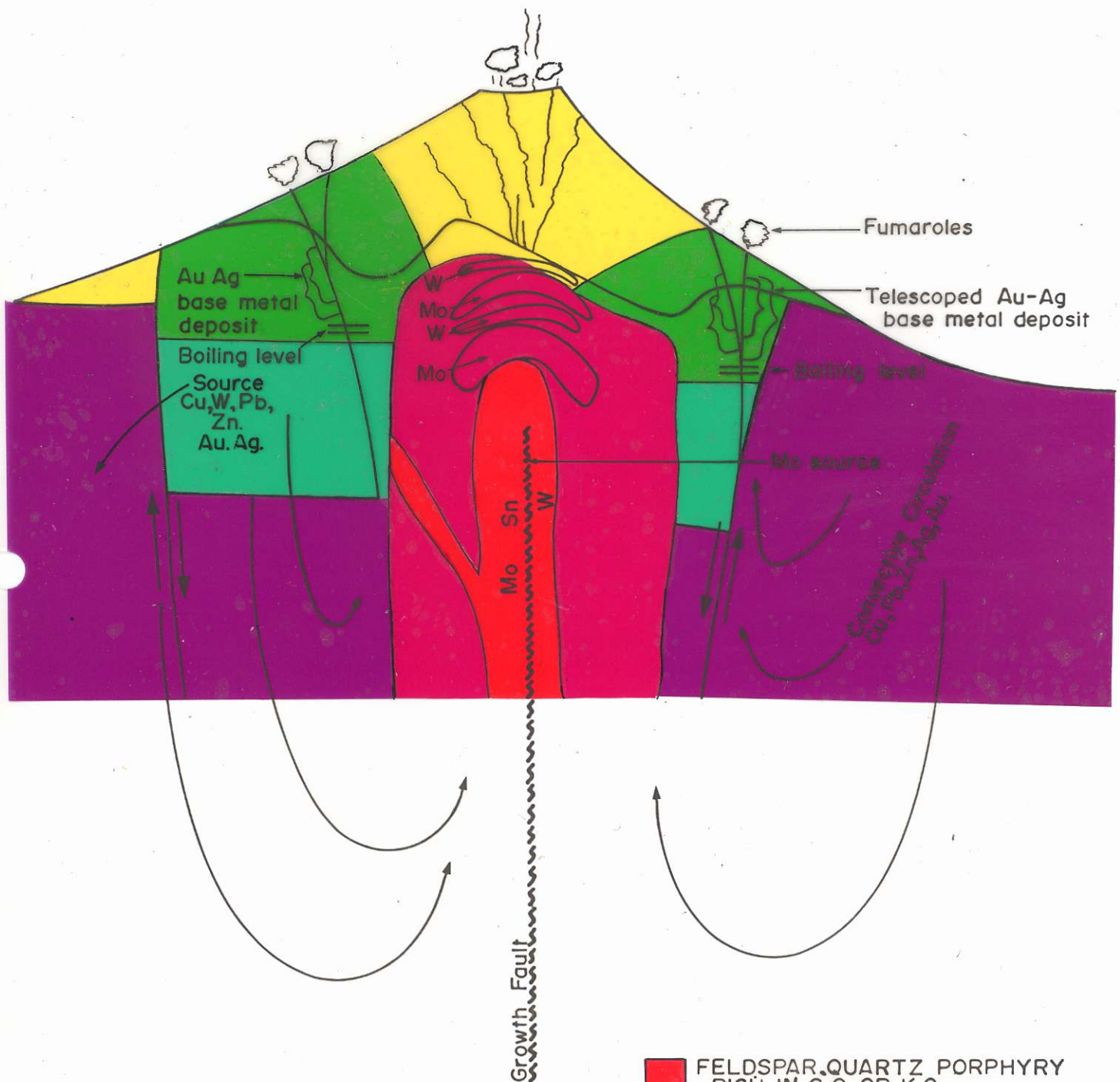
- G Quartz diorite, schist
- T Tourmalinized acid volcanic breccias
- Fault
- Stockwork Mo

0 1 2 km

0 1 2 miles

for 1982 budget

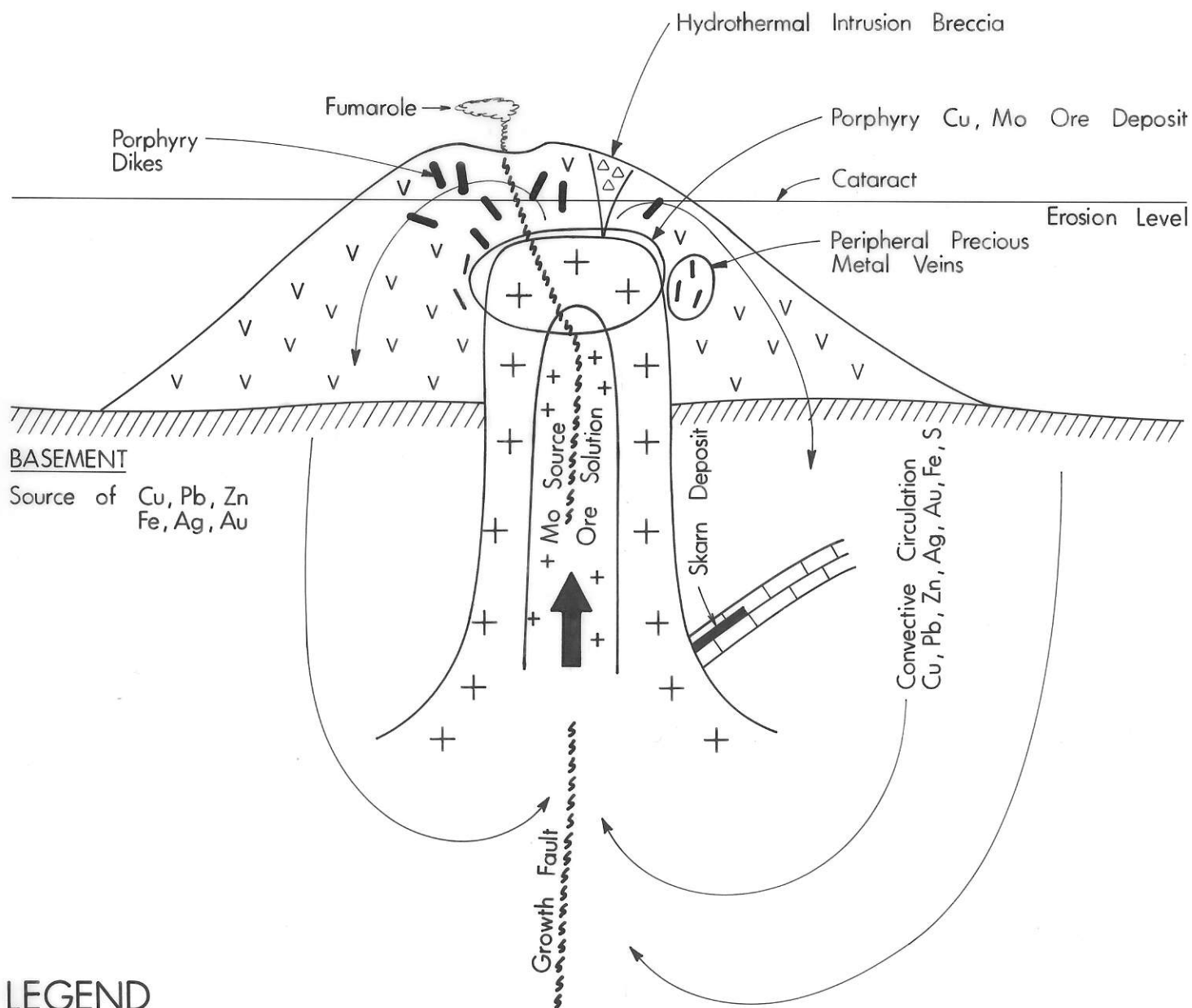
MODEL FOR STOCKWORK MOLYBDENUM DEPOSIT AND PRECIOUS BASE METAL DEPOSIT



- FELDSPAR QUARTZ PORPHYRY RICH IN SiO_2 OR K_2O
- QUARTZ DIORITE / GRANITE
- ACID VOLCANICS
- INTERMEDIATE VOLCANICS
- BASIC VOLCANICS
- GRANITIC BASEMENT

1982 budget
superseeded

CONVECTIVE PORPHYRY MODEL



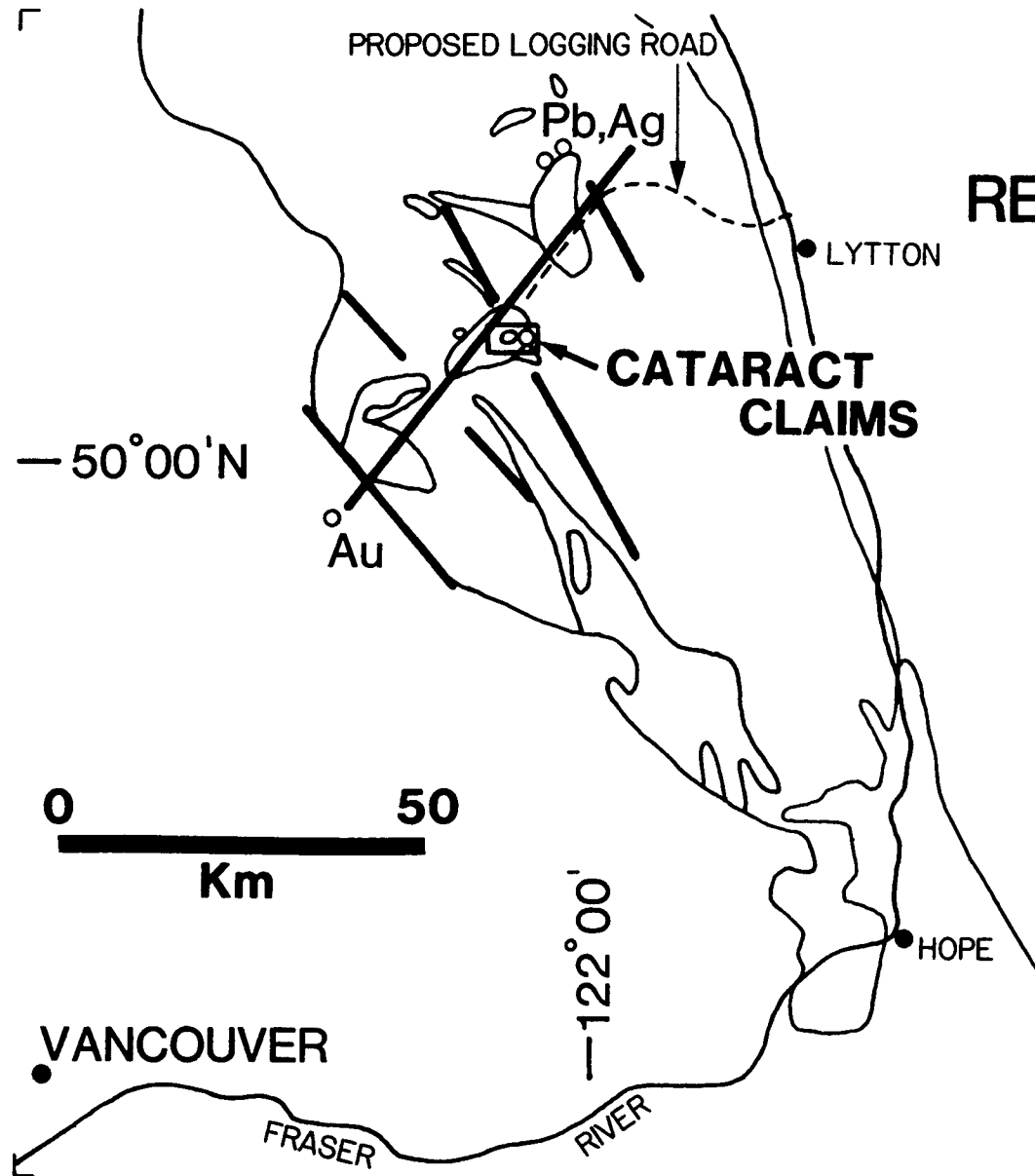
LEGEND

- ++ Porphyry
- + Granite
- v v Bedded Lavas & Pyroclastics

For 1982 Budget
Superseded

CATARACT

REGIONAL GEOLOGY



TERTIARY (MIOCENE)

- INTRUSIVE
- VOLCANICS

UPPER CRETACEOUS

- INTRUSIVE

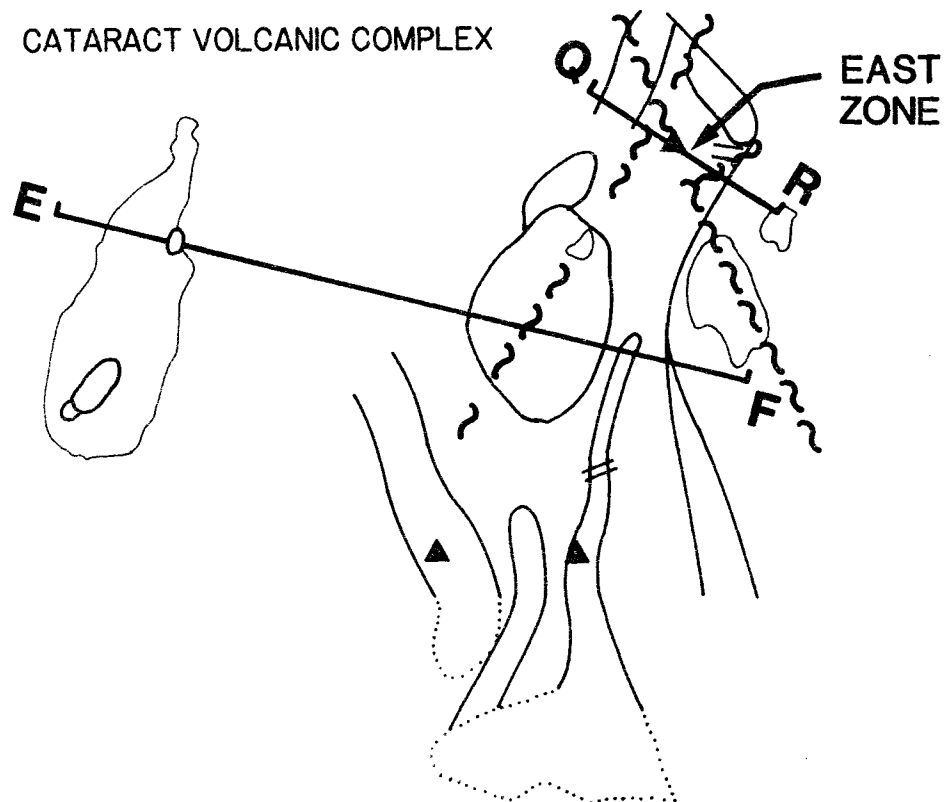
PALEOZOIC

- METAMORPHICS

- LINEAMENT
- SHOWING

CATARACT

GEOLOGY



TERTIARY (MIOCENE)

- DIORITIC
- RHYOLITIC
- QUARTZ MONZONITE
- ANDESITIC - DACITIC

UPPER CRETACEOUS

- QUARTZ DIORITE

PALEOZOIC

- SCHIST

~~~~ FAULT

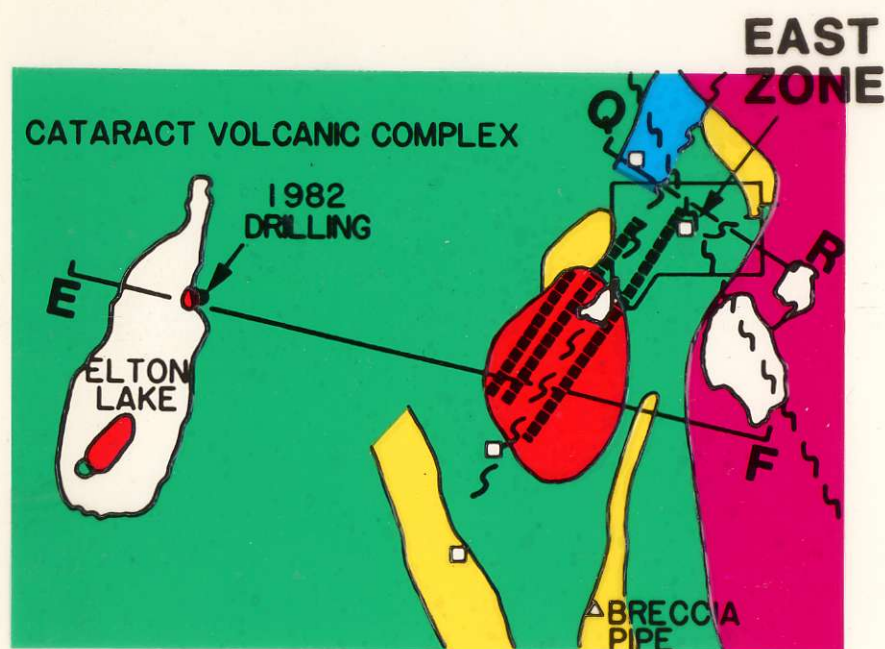
----- I.P. ANOMALY

▲ LATE BRECCIA

0 1  
Km

# CATARACT

## GEOLOGY



0 1  
Km

### TERTIARY (MIOCENE)



QUARTZ MONZONITE



RHYOLITIC



ANDESITIC - DACITIC

### UPPER CRETACEOUS



QUARTZ DIORITE

### PALEOZOIC



SCHIST



FAULT



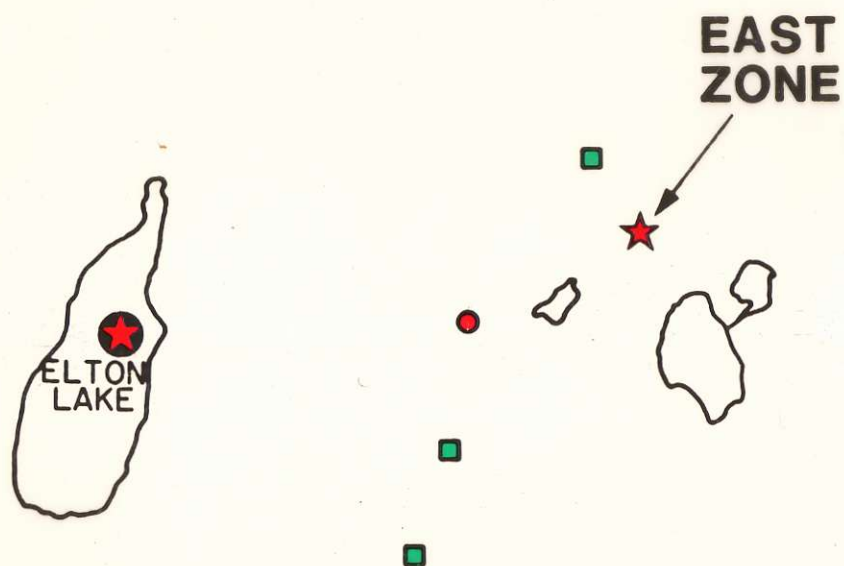
I.P. ANOMALY



GOLD ANOMALY

# CATARACT

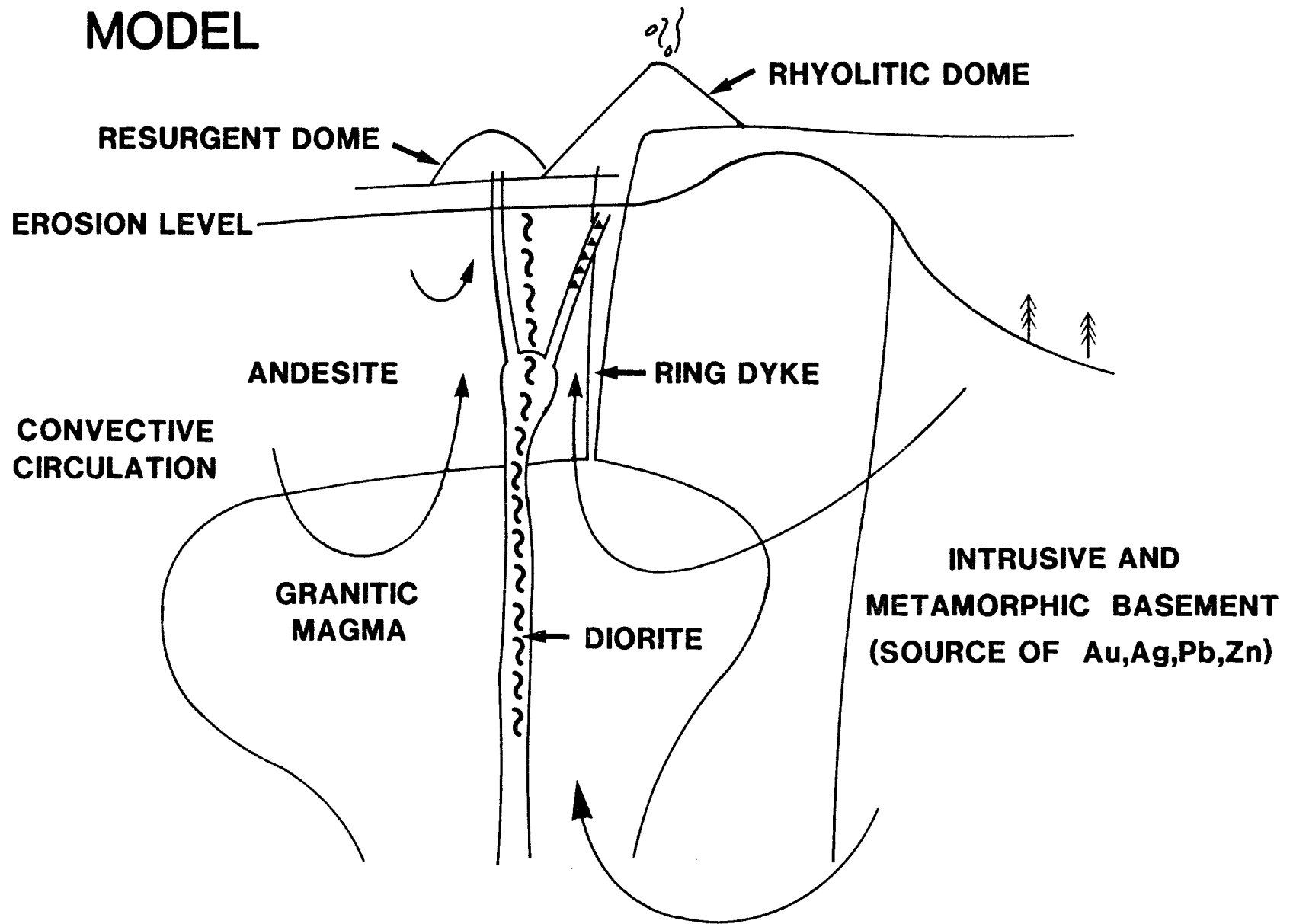
## POTENTIAL



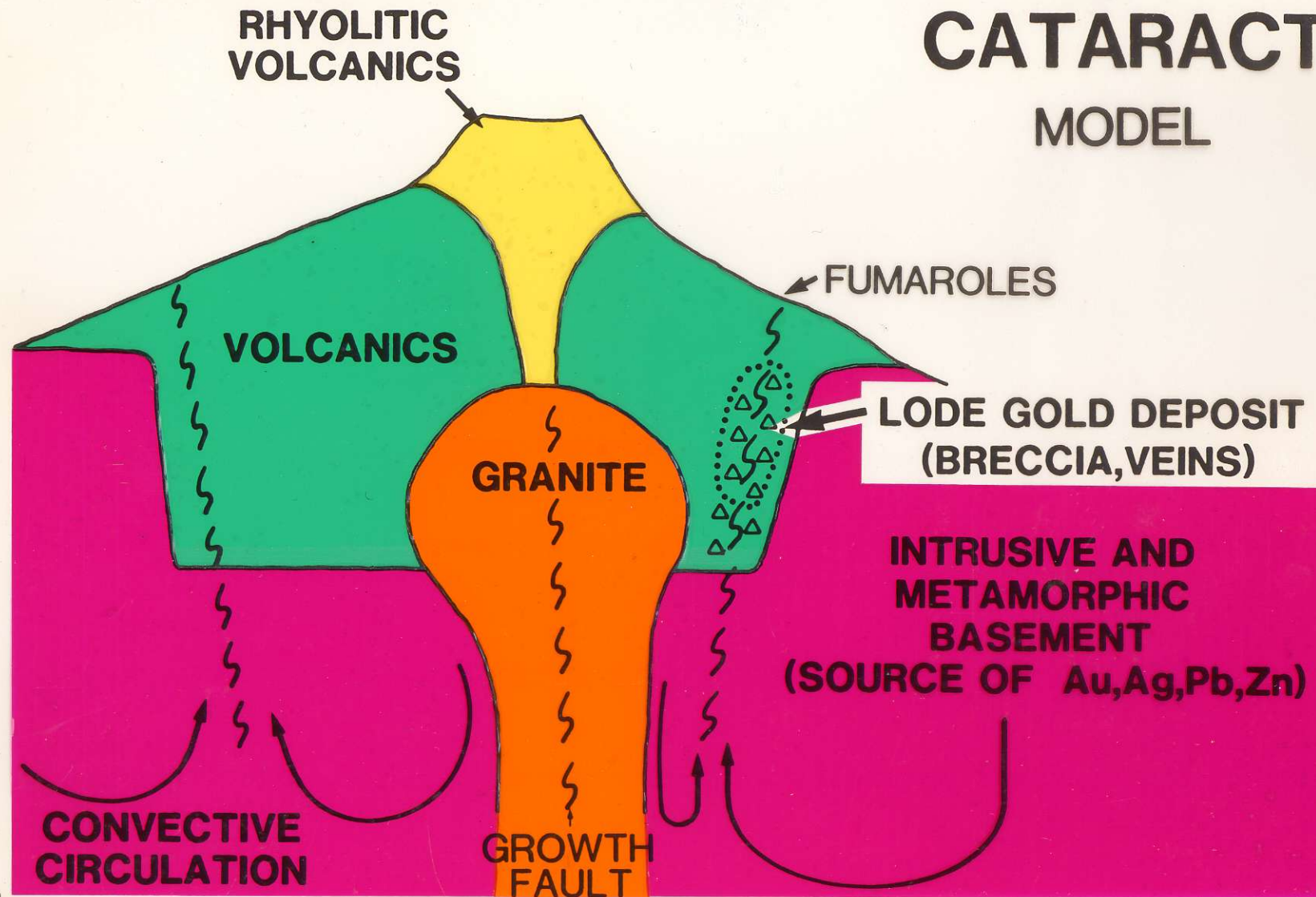
### POTENTIAL

- ★ **GOLD, SILVER, LEAD, ZINC**  
(UNDERGROUND/OPEN PIT)
- **STOCKWORK Mo**  
(BLOCK CAVING)
- **PORPHYRY COPPER**  
(BLOCK CAVING)
- **MISCELLANEOUS GOLD, SILVER, LEAD, ZINC ANOMALIES**

# CATARACT MODEL

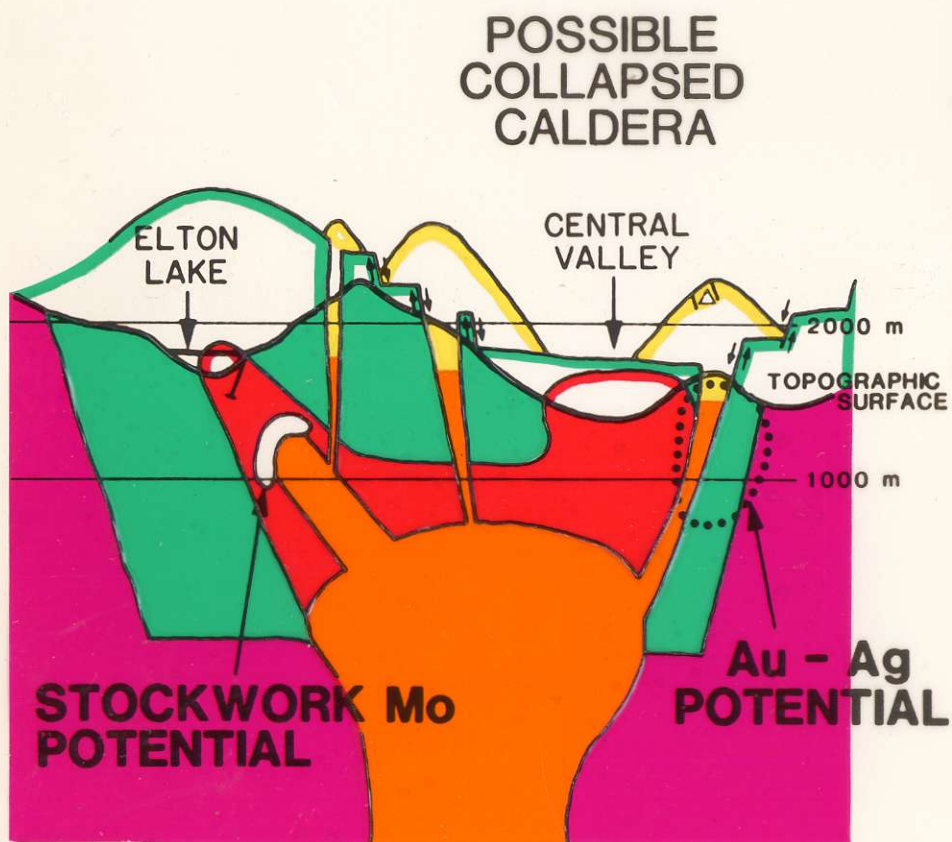


# CATARACT MODEL



# CATARACT

## SECTION E - F



### TERTIARY (MIOCENE)

- GRANITE
- QUARTZ MONZONITE
- RHYOLITE
- ANDESITE - DACITE

### PRE-TERTIARY

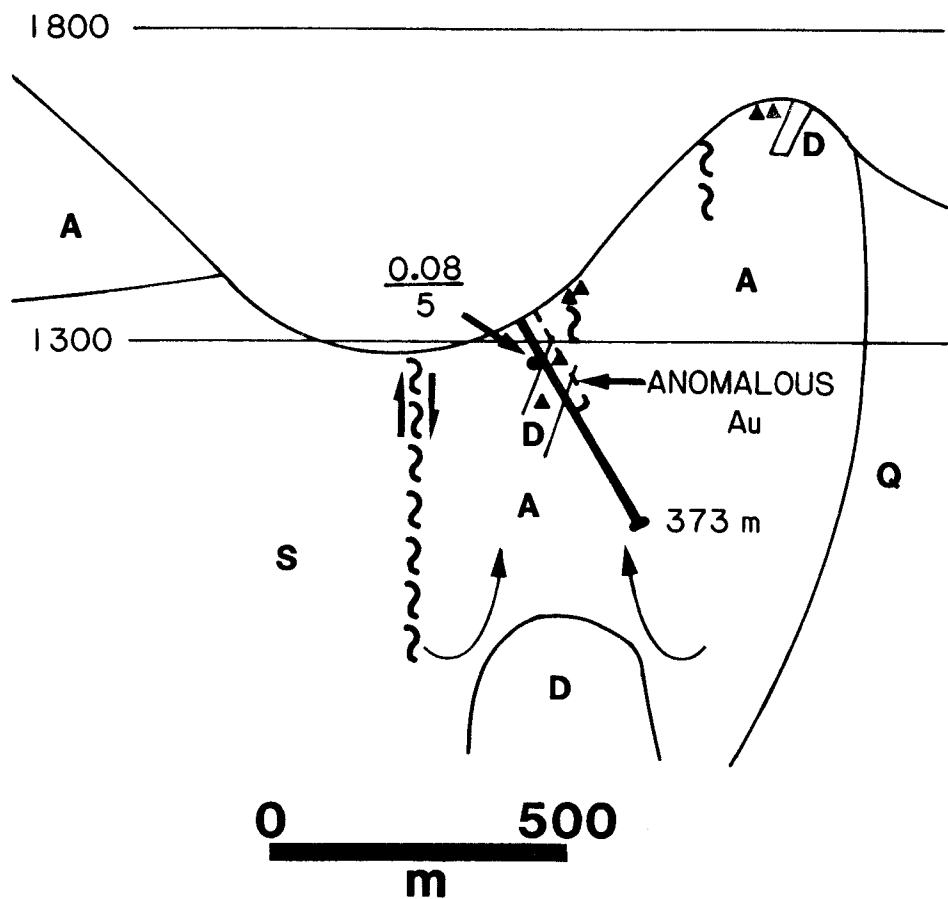
- BASEMENT INTRUSIVE AND METAMORPHICS

- BRECCIA PIPE
- D.D.H. 8201

0 1  
Km

# CATARACT

## SECTION Q - R



### TERTIARY (MIOCENE)

**D** DIORITIC

### VOLCANICS

**A** ANDESITIC - DACITIC

### UPPER CRETACEOUS

**Q** QUARTZ DIORITE

### PALEOZOIC

**S** SCHIST

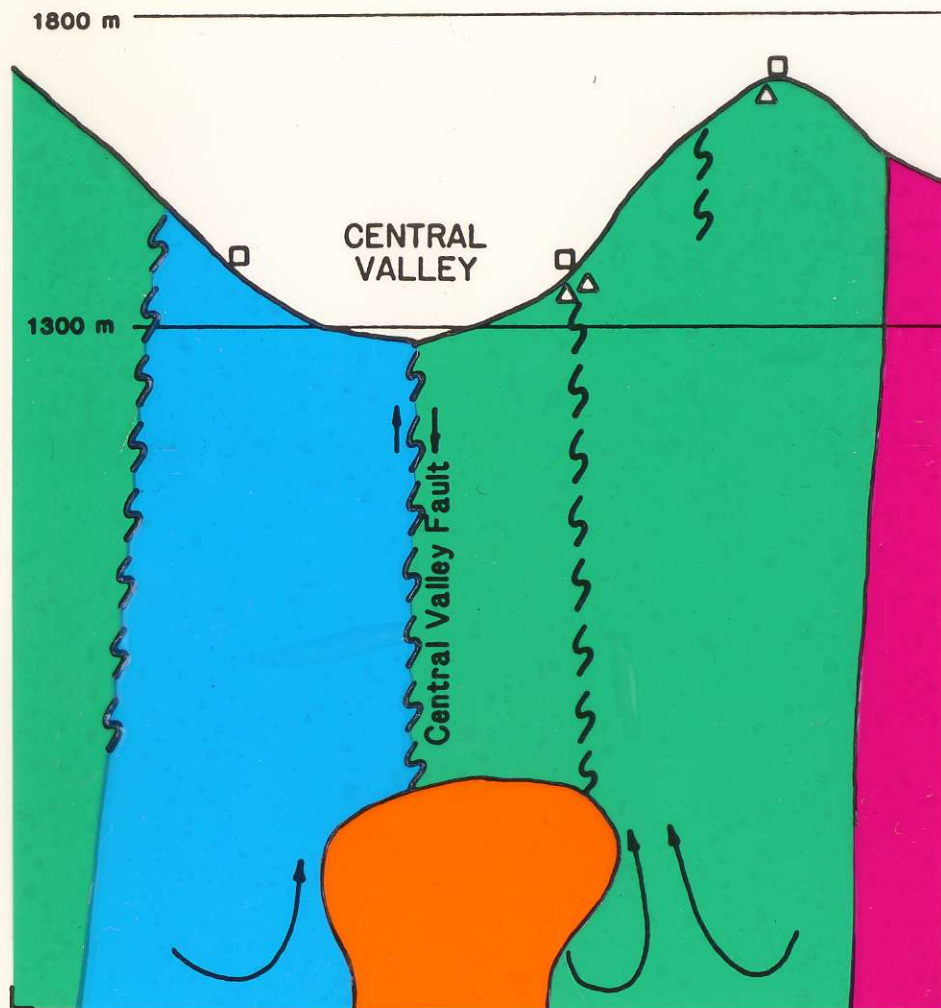
**▲▲** BRECCIA

**~~** FAULT

**0.08/5** = **oz/t feet**

# CATARACT

## SECTION Q - R



### TERTIARY (MIOCENE)

 GRANITE

### VOLCANICS

 ANDESITIC - DACITIC

### UPPER CRETACEOUS

 QUARTZ DIORITE

### PALEOZOIC

 SCHIST

 FAULT

 MICROBRECCIA

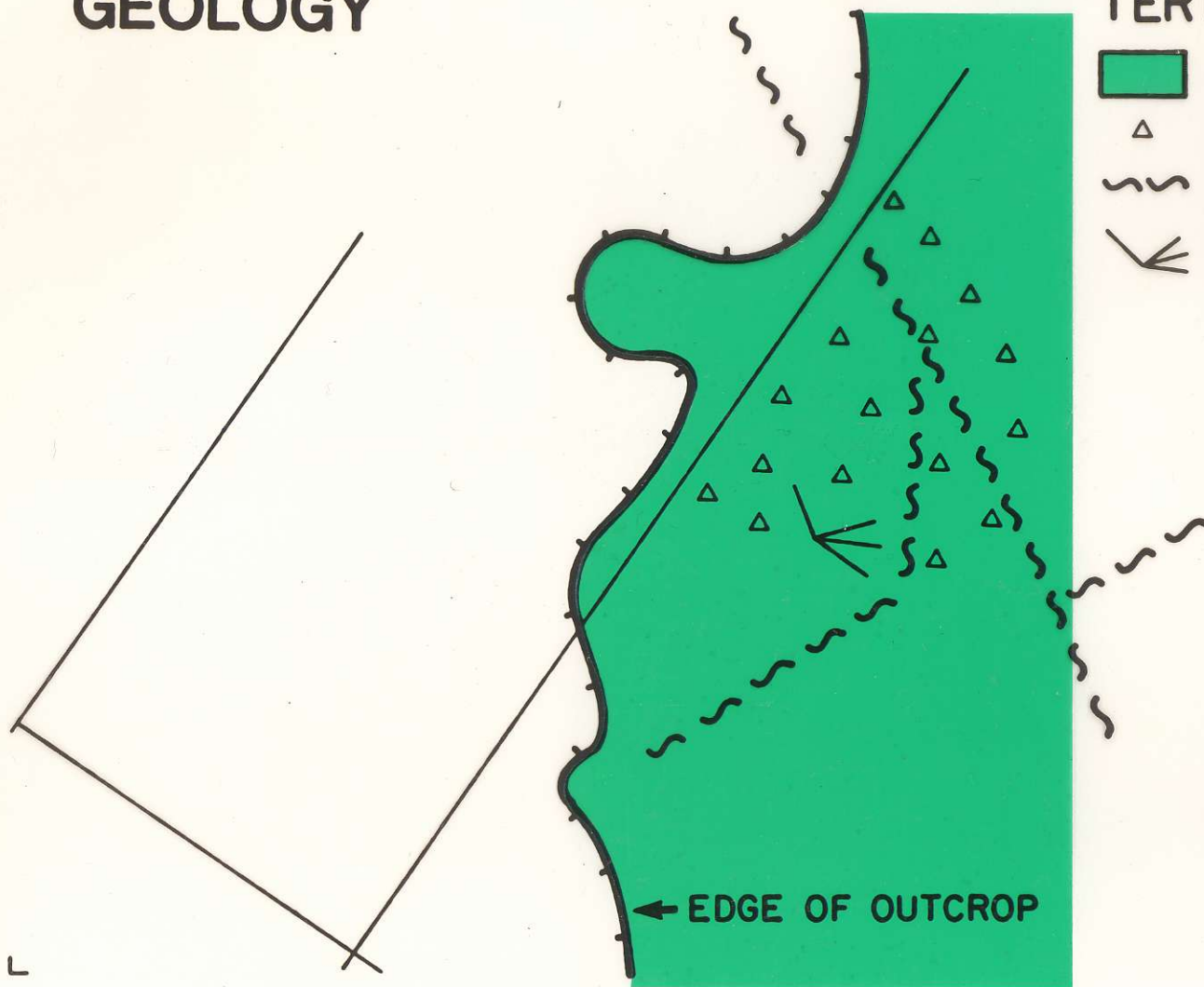
 GOLD ANOMALY

0 500  
m

# CATARACT - EAST ZONE GEOLOGY

## TERTIARY (MIOCENE)

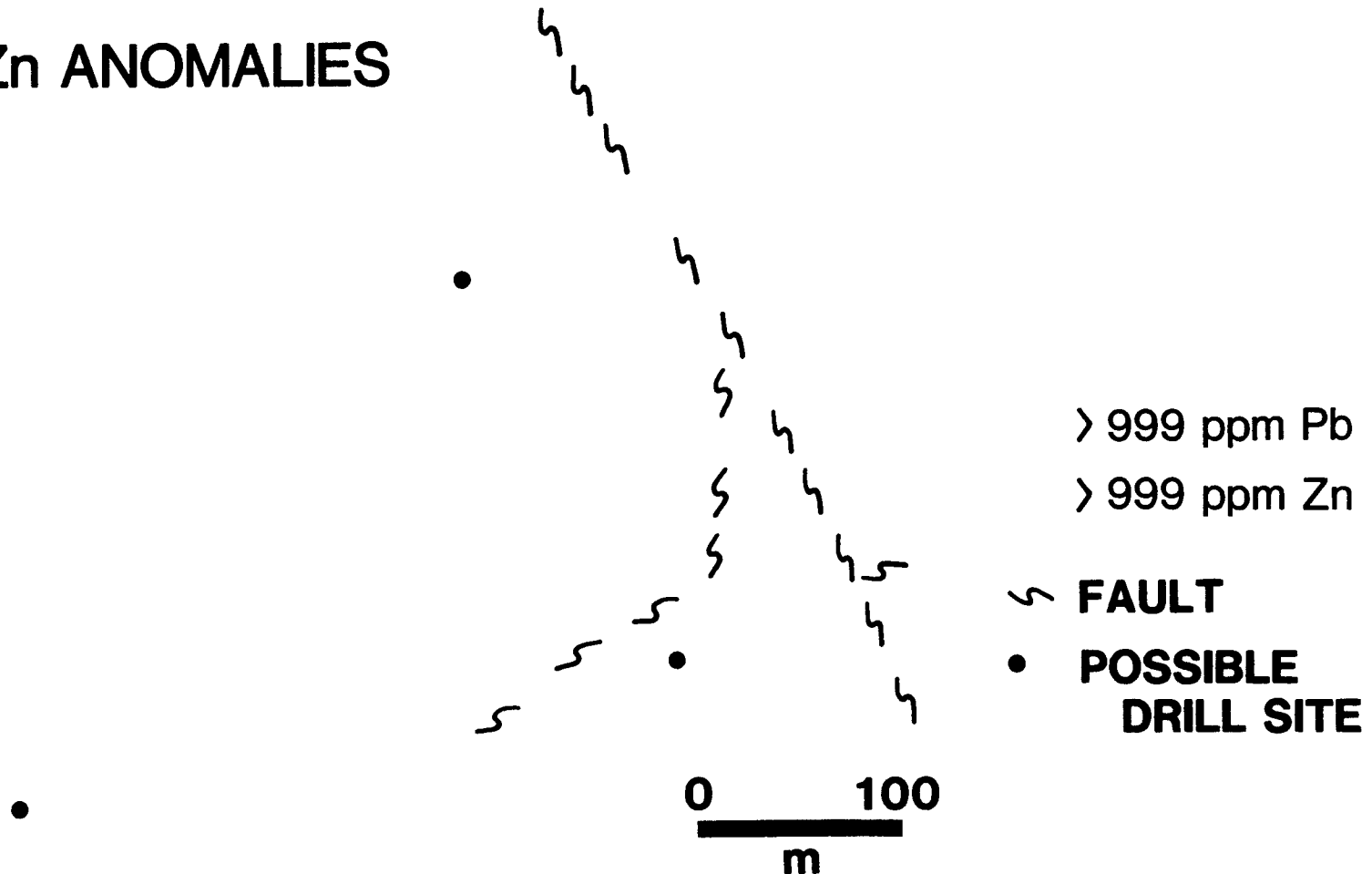
-  ANDESITIC-DACITIC
-  MICROBRECCIA
-  FAULT
-  BASE METAL  
FRACTURE TRENDS



0 100 m

# CATARACT - EAST ZONE

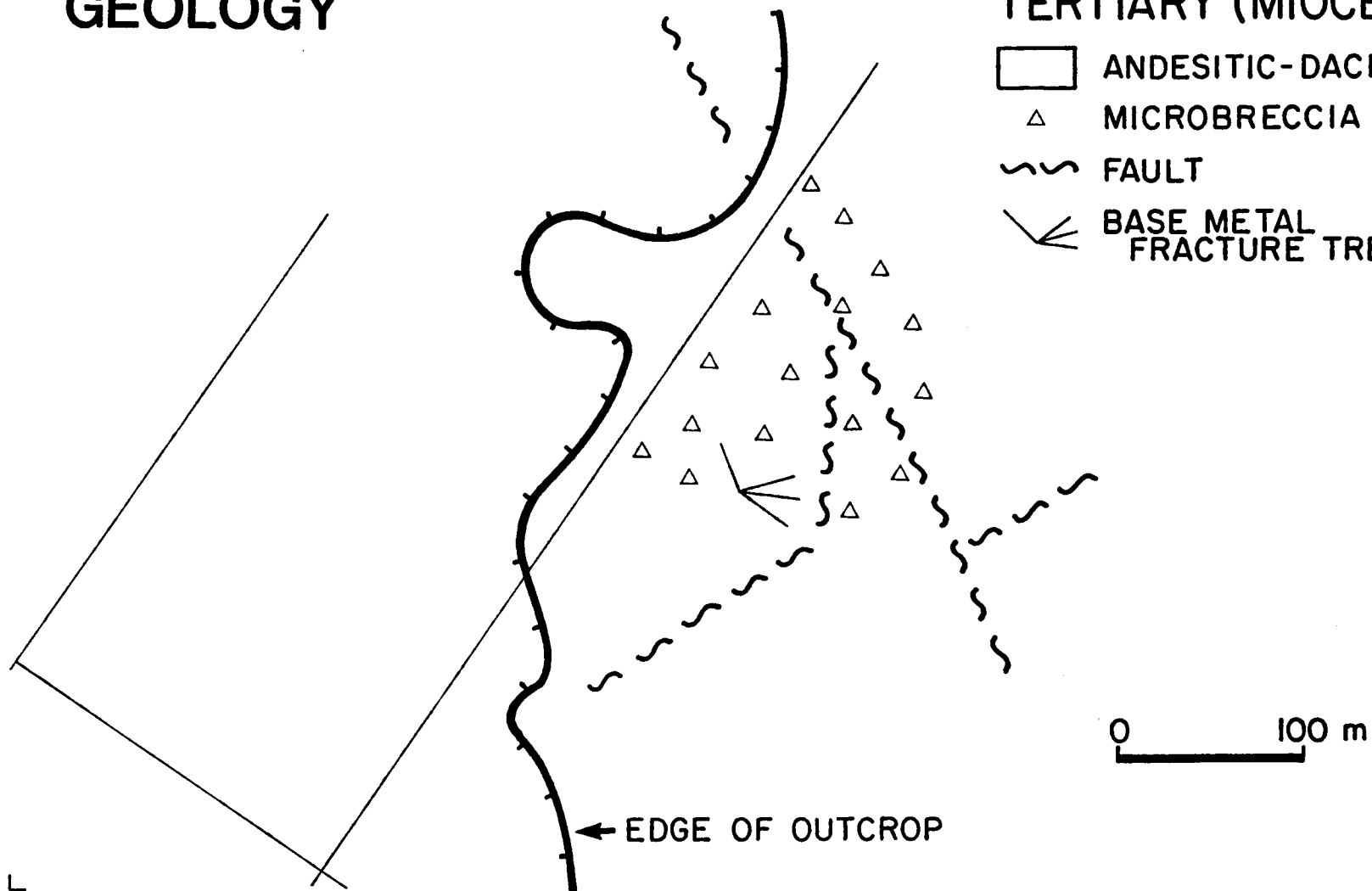
Pb-Zn ANOMALIES



# CATARACT - EAST ZONE GEOLOGY

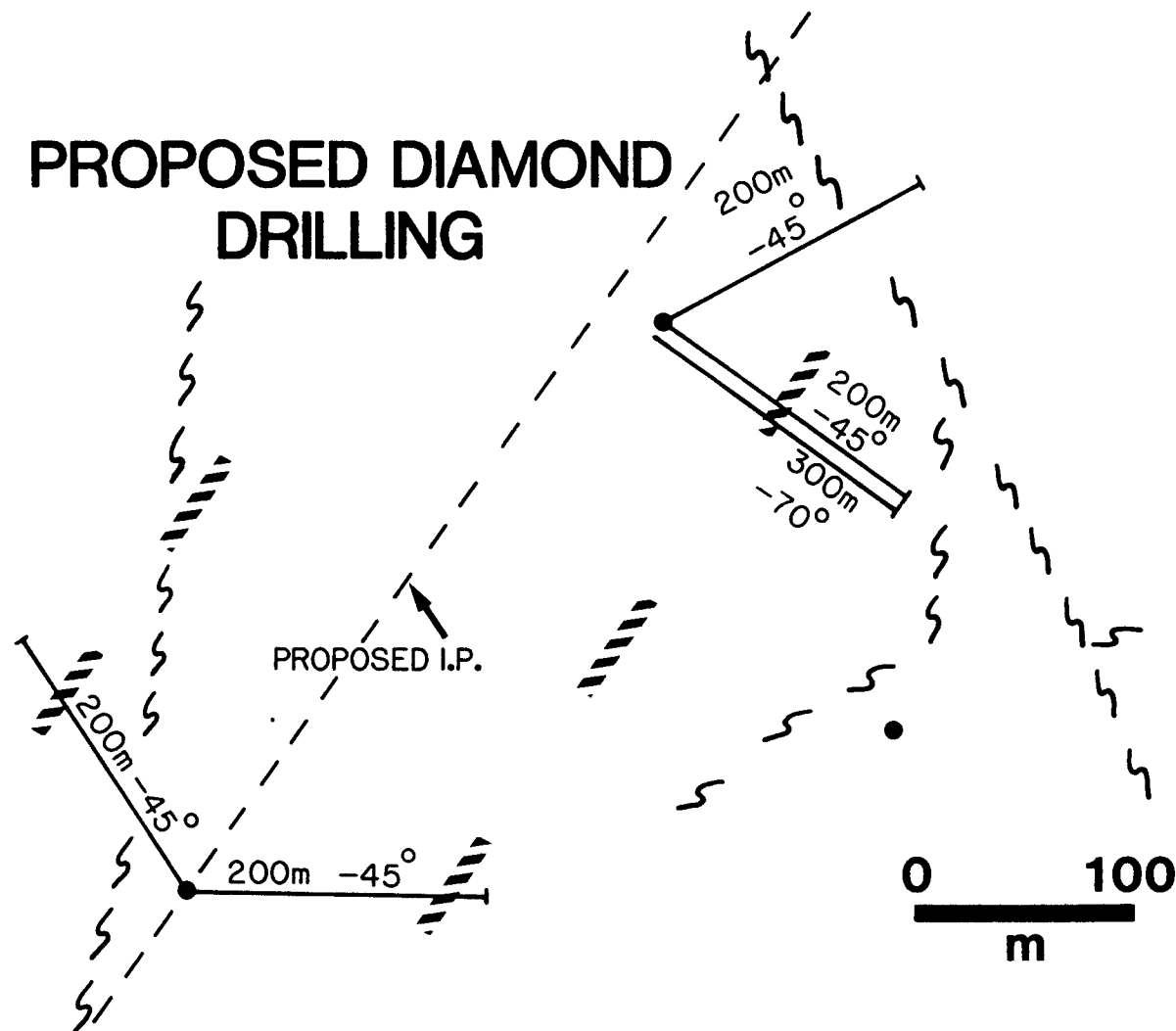
## TERTIARY (MIOCENE)

-  ANDESITIC-DACITIC
-  MICROBRECCIA
-  FAULT
-  BASE METAL  
FRACTURE TRENDS



# CATARACT - EAST ZONE

## PROPOSED DIAMOND DRILLING



- ↗ FAULT
- POSSIBLE DRILL SITE
- PROPOSED DRILL HOLE
- /// I.P. ANOMALY

APPENDIX A  
ANALYTICAL DATA

1982 CATARACT DIAMOND DRILLING SUMMARY

Page 1 of 3

| Composite<br>Sample Interval |           | Means based<br>on ten foot<br>assays |         | Geochem determinations<br>based on composites |           |           |           |          | Assay of composites        |                    |
|------------------------------|-----------|--------------------------------------|---------|-----------------------------------------------|-----------|-----------|-----------|----------|----------------------------|--------------------|
| DDH-82                       | feet      | Mo<br>%                              | Cu<br>% | Pb<br>ppm                                     | Zn<br>ppm | Ag<br>ppm | Sn<br>ppm | F<br>ppm | WO <sub>3</sub><br>(NAA) % | Au (FA)<br>9/tonne |
| 01                           | 8-60      | 0.006                                | 0.08    | 3                                             | 30        | 0.8       | <2        | 600      | 0.003                      | <0.1               |
|                              | 60-110    | 0.009                                | 0.08    | 8                                             | 31        | 0.6       | <2        | 500      | 0.003                      | "                  |
|                              | 110-160   | 0.004                                | 0.06    | 6                                             | 26        | 0.6       | <2        | 520      | 0.003                      | "                  |
|                              | 160-210   | 0.002                                | 0.01    | 8                                             | 22        | 0.4       | <2        | 600      | 0.006                      | "                  |
|                              | 210-260   | 0.010                                | 0.03    | 12                                            | 34        | 0.4       | <2        | 490      | 0.002                      | "                  |
|                              | 260-310   | 0.016                                | 0.04    | 7                                             | 27        | 0.4       | <2        | 310      | 0.001                      | "                  |
|                              | 310-360   | 0.014                                | 0.05    | 8                                             | 22        | 0.5       | <2        | 300      | 0.002                      | "                  |
|                              | 360-410   | 0.030                                | 0.05    | 12                                            | 28        | 0.4       | <2        | 260      | 0.001                      | "                  |
|                              | 410-460   | 0.008                                | 0.03    | 7                                             | 26        | 0.3       | <2        | 250      | 0.001                      | "                  |
|                              | 460-510   | 0.028                                | 0.02    | 19                                            | 48        | 0.4       | <2        | 260      | 0.001                      | "                  |
|                              | 510-560   | 0.012                                | 0.04    | 48                                            | 280       | 1.2       | <2        | 260      | 0.002                      | "                  |
|                              | 560-610   | 0.009                                | <0.01   | 9                                             | 30        | 0.2       | <2        | 270      | 0.001                      | "                  |
|                              | 610-660   | 0.004                                | <0.01   | 13                                            | 33        | 0.2       | <2        | 280      | 0.001                      | "                  |
|                              | 660-710   | 0.004                                | 0.02    | 20                                            | 51        | 0.4       | <2        | 290      | 0.002                      | "                  |
|                              | 710-760   | 0.009                                | <0.01   | 7                                             | 34        | 0.1       | <2        | 270      | 0.002                      | "                  |
|                              | 760-810   | 0.001                                | 0.04    | 12                                            | 73        | 0.5       | <2        | 330      | 0.001                      | "                  |
|                              | 810-860   | 0.002                                | 0.02    | 7                                             | 33        | 0.3       | <2        | 350      | 0.001                      | "                  |
|                              | 860-910   | <0.001                               | 0.02    | 12                                            | 38        | 0.3       | <2        | 460      | 0.001                      | "                  |
|                              | 910-960   | <0.001                               | 0.02    | 11                                            | 62        | 0.5       | 3         | 450      | 0.001                      | "                  |
|                              | 960-1010  | 0.003                                | 0.04    | 15                                            | 57        | 0.7       | <2        | 490      | 0.001                      | "                  |
|                              | 1010-1040 | 0.002                                | 0.02    | 3                                             | 45        | 0.4       | <2        | 430      | 0.001                      | "                  |

01

END

Overall Mean:

0.008 % Mo

1032'

Overall Mean:

0.03 % Cu

1032'

Best Interval:

0.03 % Mo

50'

Best Interval:

0.08 % Cu

102'

Best Interval

0.006 % WO<sub>3</sub>

50'

References: Chemex Certificates -

A8213528-001 to 003-A September 29, 1982

A8213529-001-A September 28, 1982

A8213529-001-A October 6, 1982

# APPENDIX A

## ANALYTICAL DATA

### 1982 CATARACT DIAMOND DRILLING SUMMARY

Page 2 of 3

| DDH-82 | Composite<br>Sample Interval | Means based<br>on ten foot<br>assays |         | Geochem determinations<br>based on composites |           |           |           |          | Assay of composites        |                    |
|--------|------------------------------|--------------------------------------|---------|-----------------------------------------------|-----------|-----------|-----------|----------|----------------------------|--------------------|
|        | feet                         | Mo<br>%                              | Cu<br>% | Pb<br>ppm                                     | Zn<br>ppm | Ag<br>ppm | Sn<br>ppm | F<br>ppm | Mo <sub>3</sub><br>(ppm) % | Au (FA)<br>g/tonne |
| 02     | 6-60                         | 0.010                                | 0.05    | 5                                             | 25        | 0.2       | <2        | 420      | 0.004                      | <0.1               |
|        | 60-110                       | 0.005                                | 0.05    | 6                                             | 29        | 0.2       | <2        | 390      | 0.002                      | "                  |
|        | 110-160                      | 0.007                                | 0.08    | 8                                             | 42        | 0.3       | <2        | 430      | 0.003                      | "                  |
|        | 160-210                      | 0.006                                | 0.08    | 2                                             | 38        | 0.3       | 2         | 360      | 0.002                      | "                  |
|        | 210-260                      | 0.001                                | 0.04    | 2                                             | 40        | 0.2       | <2        | 300      | 0.001                      | "                  |
|        | 260-310                      | 0.003                                | 0.04    | 2                                             | 40        | 0.1       | <2        | 340      | <0.001                     | "                  |
|        | 310-360                      | 0.002                                | 0.01    | 5                                             | 33        | 0.1       | <2        | 300      | 0.001                      | "                  |
|        | 360-410                      | 0.003                                | 0.02    | 5                                             | 32        | 0.1       | <2        | 250      | 0.001                      | "                  |
|        | 410-460                      | 0.003                                | 0.02    | 6                                             | 38        | 0.1       | <2        | 370      | 0.002                      | "                  |
|        | 460-516                      | 0.004                                | 0.03    | 3                                             | 44        | 0.1       | <2        | 350      | 0.001                      | "                  |

02 END

Overall Mean:

0.004 % Mo  
510'

Overall Mean:

0.04 % Cu  
510'

Best Interval:

0.01 % Mo  
54'

Best Interval:

0.08 % Cu  
100'

References: Chemex Certificates -

A8213861-001 to 002-A    October 2, 1982  
A8213862-001-A        October 21, 1982  
A8213862-001-A        October 25, 1982

# APPENDIX A

## ANALYTICAL DATA

### 1982 CATARACT DIAMOND DRILLING SUMMARY

Page 3 of 3

| Composite<br>Sample Interval |         | Means based<br>on ten foot<br>assays |         | Geochem determinations<br>based on composites |           |           |           |          | Assay of composites        |                   |
|------------------------------|---------|--------------------------------------|---------|-----------------------------------------------|-----------|-----------|-----------|----------|----------------------------|-------------------|
| DDH-82-                      | feet    | Mo<br>%                              | Cu<br>% | Pb<br>ppm                                     | Zn<br>ppm | Ag<br>ppm | Sn<br>ppm | F<br>ppm | SO <sub>3</sub><br>(NAA) % | Au(FA)<br>9/tonne |
| 03                           | 12-60   | 0.017                                | 0.09    | 8                                             | 56        | 0.5       | <2        | 460      | 0.01                       | <0.1              |
|                              | 60-110  | 0.012                                | 0.07    | 2                                             | 30        | 0.3       | <2        | 460      | 0.003                      | <0.1              |
|                              | 110-160 | 0.026                                | 0.07    | 2                                             | 24        | 0.2       | <2        | 510      | 0.002                      | <0.1              |
|                              | 160-210 | 0.014                                | 0.09    | 6                                             | 27        | 0.5       | <2        | 380      | 0.002                      | <0.1              |
|                              | 210-260 | 0.011                                | 0.06    | 11                                            | 31        | 0.3       | <2        | 450      | 0.002                      | <0.1              |
|                              | 260-310 | 0.008                                | 0.06    | 4                                             | 35        | 0.3       | <2        | 490      | 0.002                      | <0.1              |
|                              | 310-360 | 0.019                                | 0.06    | 1                                             | 33        | 0.1       | <2        | 490      | 0.002                      | <0.1              |
|                              | 360-410 | 0.008                                | 0.04    | 3                                             | 31        | 0.1       | 2         | 440      | 0.001                      | <0.1              |
|                              | 410-460 | 0.007                                | 0.04    | 2                                             | 33        | 0.1       | <2        | 430      | 0.002                      | <0.1              |
|                              | 460-510 | 0.012                                | 0.04    | 1                                             | 28        | 0.1       | <2        | 440      | 0.001                      | 0.1               |
|                              | 510-560 | 0.011                                | 0.03    | 3                                             | 28        | 0.1       | <2        | 540      | 0.002                      | <0.1              |
|                              | 560-610 | 0.009                                | 0.04    | 3                                             | 36        | 0.2       | <2        | 480      | 0.002                      | 0.1               |
|                              | 610-660 | 0.018                                | 0.04    | 3                                             | 41        | 0.1       | <2        | 520      | 0.001                      | <0.1              |
|                              | 660-707 | 0.025                                | 0.04    | 3                                             | 32        | 0.2       | <2        | 520      | 0.001                      | <0.1              |
| 03                           | END     |                                      |         |                                               |           |           |           |          |                            |                   |

Overall Mean:

0.014 % Mo

695'

Overall Mean:

0.06 % Cu

695'

Best Interval:

0.026 % Mo

50'

Best Interval:

0.09 % Cu

48'

References: Chemex Certificates -

A8213863-001 to 002-A      October 21, 1982

A8213864-001-A              October 21, 1982

A8213864-001-A              October 25, 1982

# CHEVRON SAMPLING

Au-FA+AA

| SAMPLE TYPE AND DESIGNATION |        | GOLD<br>SILVER |               | LEAD<br>ZINC |               |
|-----------------------------|--------|----------------|---------------|--------------|---------------|
|                             |        | ppb<br>oz/ton  | ppb<br>oz/ton | ppm<br>%     | ppm<br>%      |
| CHIP                        | MISC.  | CHIP           | MISC.         | CHIP         | MISC.         |
| 1217 V                      |        | 223/(0.30)     |               | 2300/7775    |               |
| 1217 U                      |        | 350/(0.28)     |               | ND           |               |
| 1217 T                      |        | 258/(0.49)     |               | 4000/7880    |               |
| 1217 S                      | RB8210 | 463/(0.38)     | 260/10.44     | 3800/8450    |               |
| 1217 R                      |        | 70/(0.20)      |               | ND           |               |
| 1217 Q                      |        | 133/(0.28)     |               | 2140/6175    |               |
| 1217 P                      |        | 55/(0.18)      |               | ND           |               |
| 1217 O                      |        | 100/(0.26)     |               | 1840/3650    |               |
| 1217 N                      |        | 110/(0.23)     |               | ND           |               |
| 1217 M                      | RB8209 | 485/(0.22)     | 180/(0.25)    | ND           | 3025/(0.90)   |
| 1217 L                      |        | 335/(0.38)     |               | 3140/6725    |               |
| 1217 K                      |        | 450/(0.54)     |               | ND           |               |
| 1217 J                      |        | 133/(0.32)     |               | 2940/(1.11)  |               |
| 1217 I                      |        | 55/(0.08)      |               | ND           |               |
| 1217 H                      |        | 88/(0.20)      |               | 1220/3125    |               |
| 1217 G                      |        | 55/(0.06)      |               | ND           |               |
| 1217 F                      |        | 80/(0.16)      |               | 1700/1415    |               |
| 1217 E                      |        | 100/(0.24)     |               | ND           |               |
| 1217 D                      |        | 45/(0.08)      |               | 975/2700     |               |
| 1217 C                      |        | 35/(0.07)      |               | ND           |               |
| 1217 B                      | RB8208 | 55/(0.06)      | 160/(0.18)    | ND           | 1630/530      |
| RB8207                      | 1217 A | 37/(0.12)      | 425/(3.08)    | 1725/3725    | 10,000/10,000 |

↑ 70 ppb-Au  
8.1 ppm-Ag  
↓

↑ 80 ppb-Au  
7.3 ppm-Ag  
↓

↑ SINGLE SAMPLE  
CONSISTING OF  
5 LBS OF ROCK  
CHIPS.  
↓

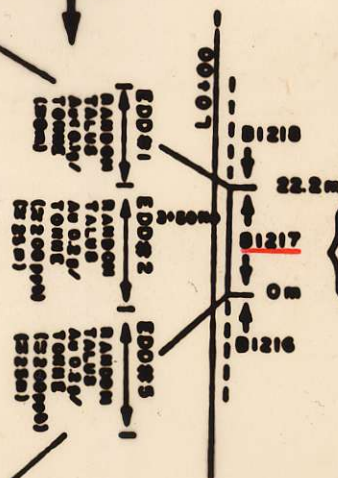
↑ SINGLE SAMPLE  
CONSISTING OF  
20-25 LBS OF  
ROCK CHIPS.  
↓

↑ 1-m LONG CHIP  
SAMPLES EACH  
CONSISTING OF  
ESTIMATED 5-7  
LBS OF MATERIAL.  
↓

↑ OVERALL MEAN (CHIPS)  
151 ppb Au, 0.29 oz/ton Ag  
22.2 m  
↓

↑ BEST MEAN  
219 ppb, 0.31 oz/ton Ag  
12.5 m  
↓

TALUS  
SAMPLES TAKEN  
ON FALL  
LINE FROM  
B1216, B1217, B1218  
AND CLIFFS  
ABOVE.



## OWNERS' SAMPLES B1216-B1218 etc.

|                 |             |
|-----------------|-------------|
| Au > 10,000 ppb | 4.69 oz/ton |
| Ag > 100 ppm    | 4.06 oz/ton |
| Pb > 8350       | 0.86 %      |
| Zn > 10,000     | 8.40 %      |
| REF. 4          | REF. 5      |
| (Au-NAA)        | (Au-FA)     |

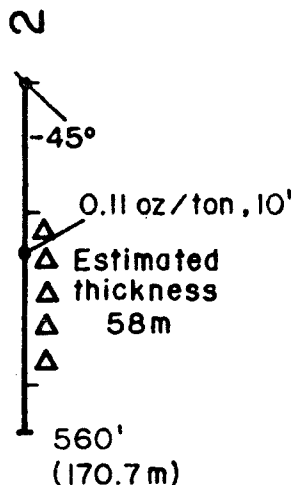
REASSAY  
4.71 oz/ton  
REF. PRICE  
NOV. 81 - PH

REASSAY OF  
B1217 REF. 6,7  
SUBMITTED AS  
P RUB 1217  
Au 4.233 oz/ton  
Ag 3.83 oz/ton  
Pb 0.81 %  
Zn 8.88 %

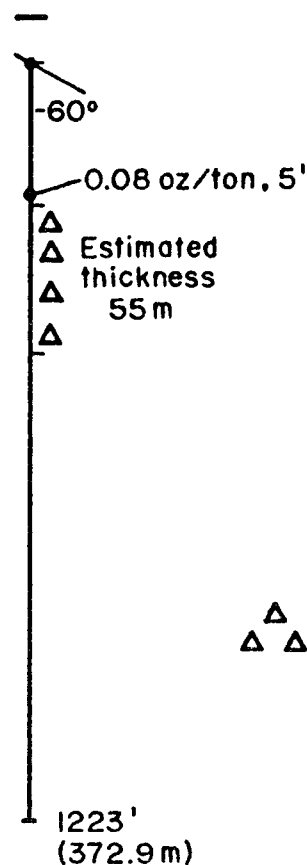
# CATARACT BRECCIA ZONE

## BASE & PRECIOUS METALS IN DDH 8301-3

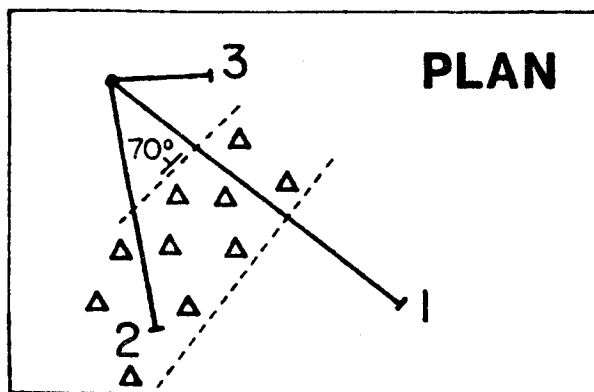
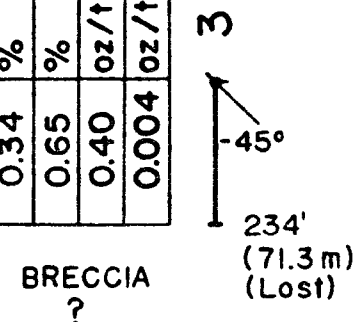
| Pb   | Zn   | Ag     | Au     |
|------|------|--------|--------|
| %    | %    | oz/ton | oz/ton |
| 0.30 | 0.71 | 0.38   | 0.003  |
| 0.16 | 0.96 | 0.27   | 0.010  |
| 0.16 | 0.72 | 0.18   | 0.004  |



| Pb   | Zn   | Ag     | Au     |
|------|------|--------|--------|
| %    | %    | oz/ton | oz/ton |
| 0.21 | 0.85 | 0.35   | 0.008  |
| 0.14 | 0.87 | 0.24   | 0.007  |
| 0.05 | 0.74 | 0.14   | 0.004  |
| 0.01 | 0.51 | 0.09   | 0.004  |



| Pb   | Zn   | Ag     | Au     |
|------|------|--------|--------|
| %    | %    | oz/ton | oz/ton |
| 0.34 | 0.65 | 0.40   | 0.004  |

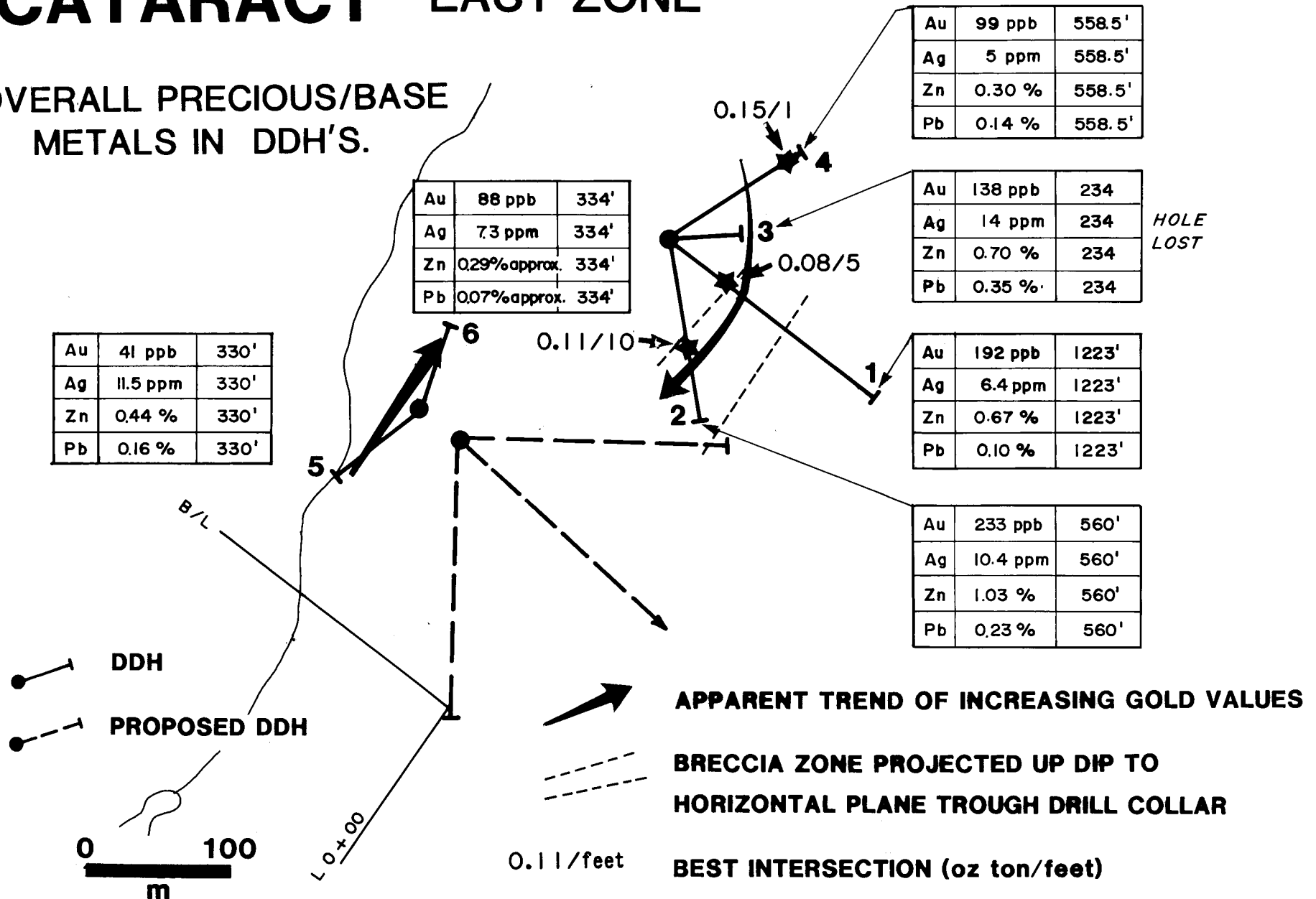


**BRECCIA INTERSECTION**

NOTE: PRECIOUS METALS IN oz/ton

# CATARACT - EAST ZONE

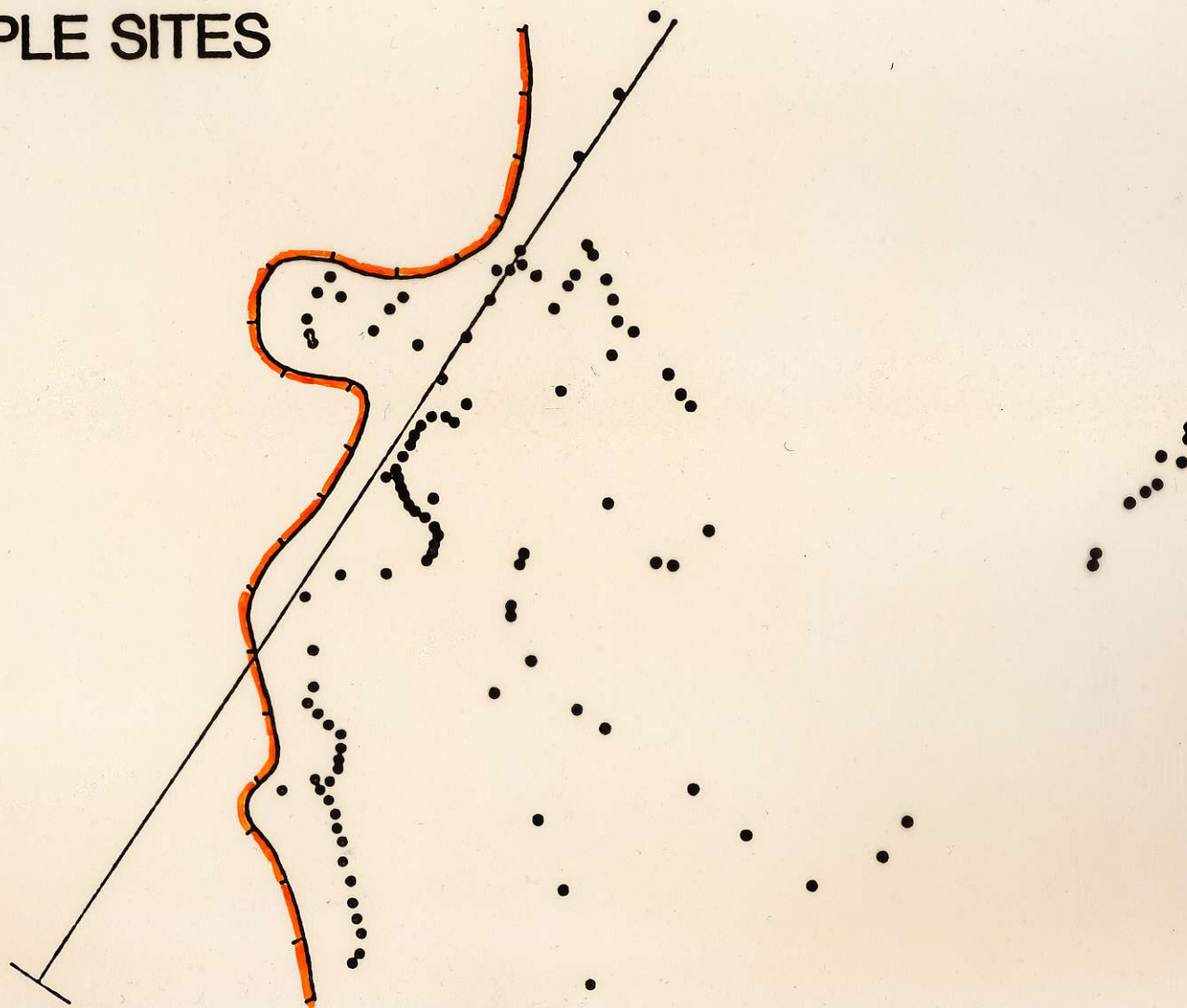
OVERALL PRECIOUS/BASE METALS IN DDH'S.



# EAST ZONE

## CHIP SAMPLE SITES

0 100  
m



# 「 CATARACT EAST ZONE

## Au-Ag ANOMALIES

### PROPOSED DIAMOND DRILLING

### SOIL GEOCHEM

- > 99 ppb Au  
> 17 ppm Ag
- > 9000ppb Au  
> 43 ppm Ag

● POSSIBLE DRILL SITE

— PROPOSED DRILL HOLE

▨ I.P. ANOMALY  
FROM 1982

□ I.P. ANOMALY TO BE  
TESTED 1983

— STRONGEST BASEMETAL  
INTERSECTION  
(ASSAYS NOT AVAILABLE)

~~ FAULT

PYROCLASTIC

MICROBRECCIA  
(MAINLY BASEMENT  
FRAGMENTS)

PROP. 8303

DDH. 8301

PROP. 8302

-45°

-60°

BASE NEW METAL  
OCCURRENCE

TALUS

PROPOSED  
HOLES

TALUS

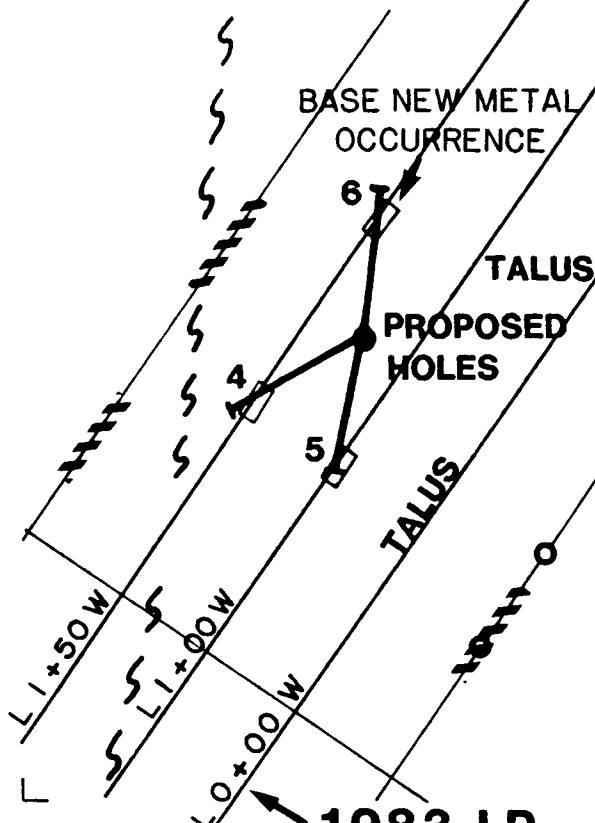
PYROCLASTIC

EDGE OF  
OUTCROP

Pb, Zn, Cu, Ag, Mn COINCIDENT SOIL ANOMALY  
( COMPLETE Au NOT AVAILABLE AT REPORT TIME )  
ANOMALY GENERALLY OPEN N, W, S,

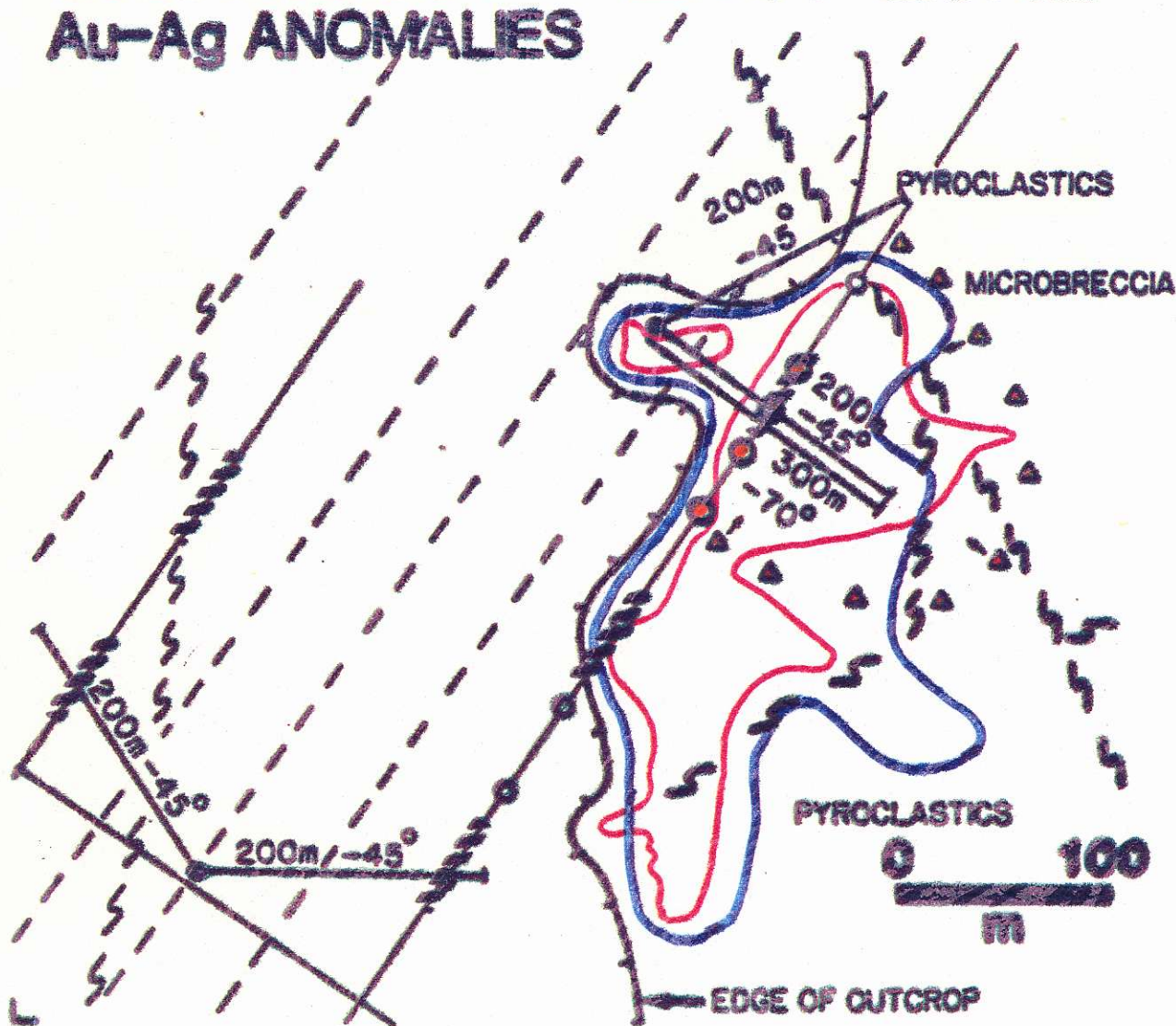
0 100  
m

1983 I.P.



# CATARACT - EAST ZONE

## AU-AG ANOMALIES



### SOIL GEOCHEM

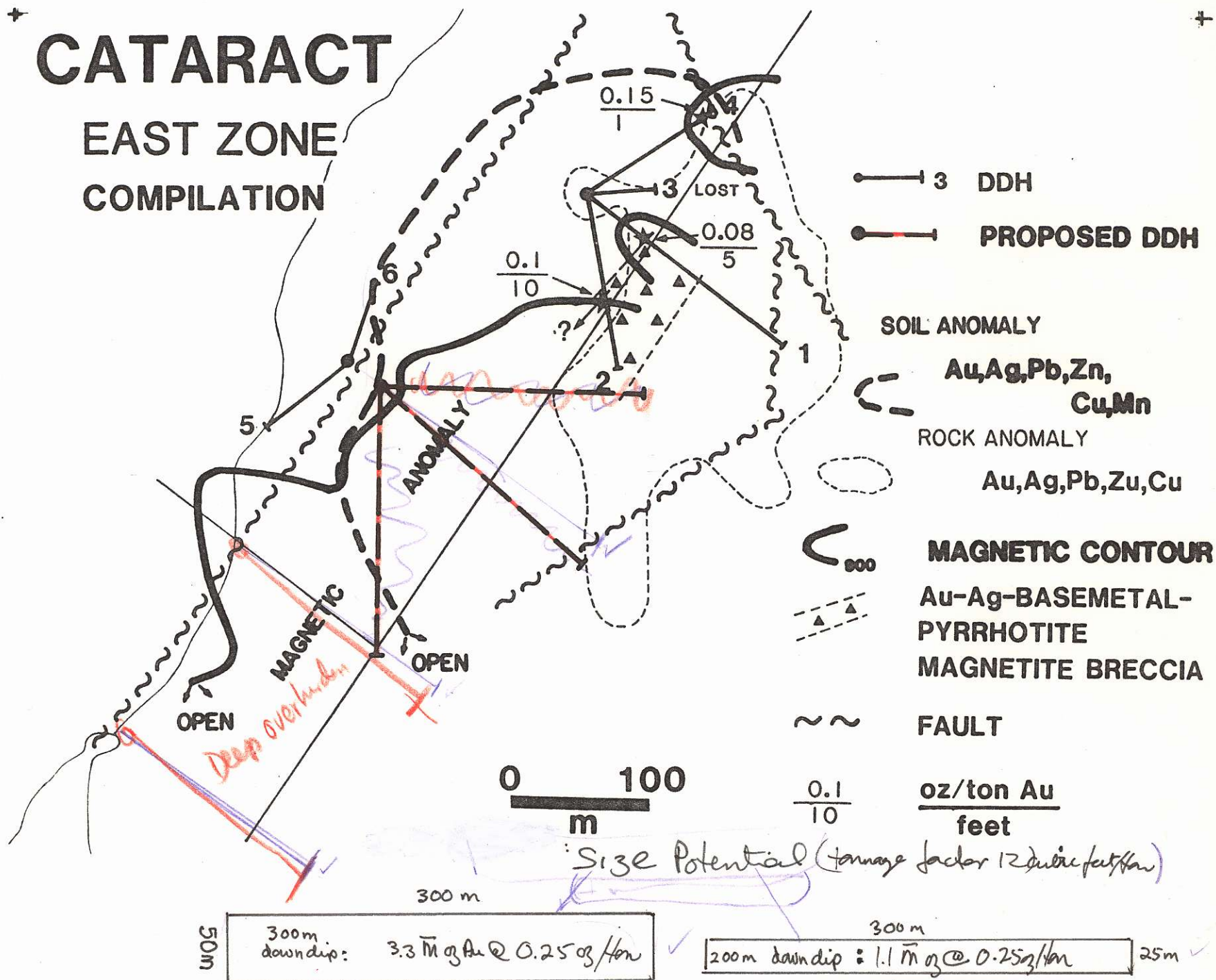
- > 99 ppb Au  
> 17 ppm Ag
- > 9000 ppb Au  
> 43 ppm Ag

### ROCK GEOCHEM

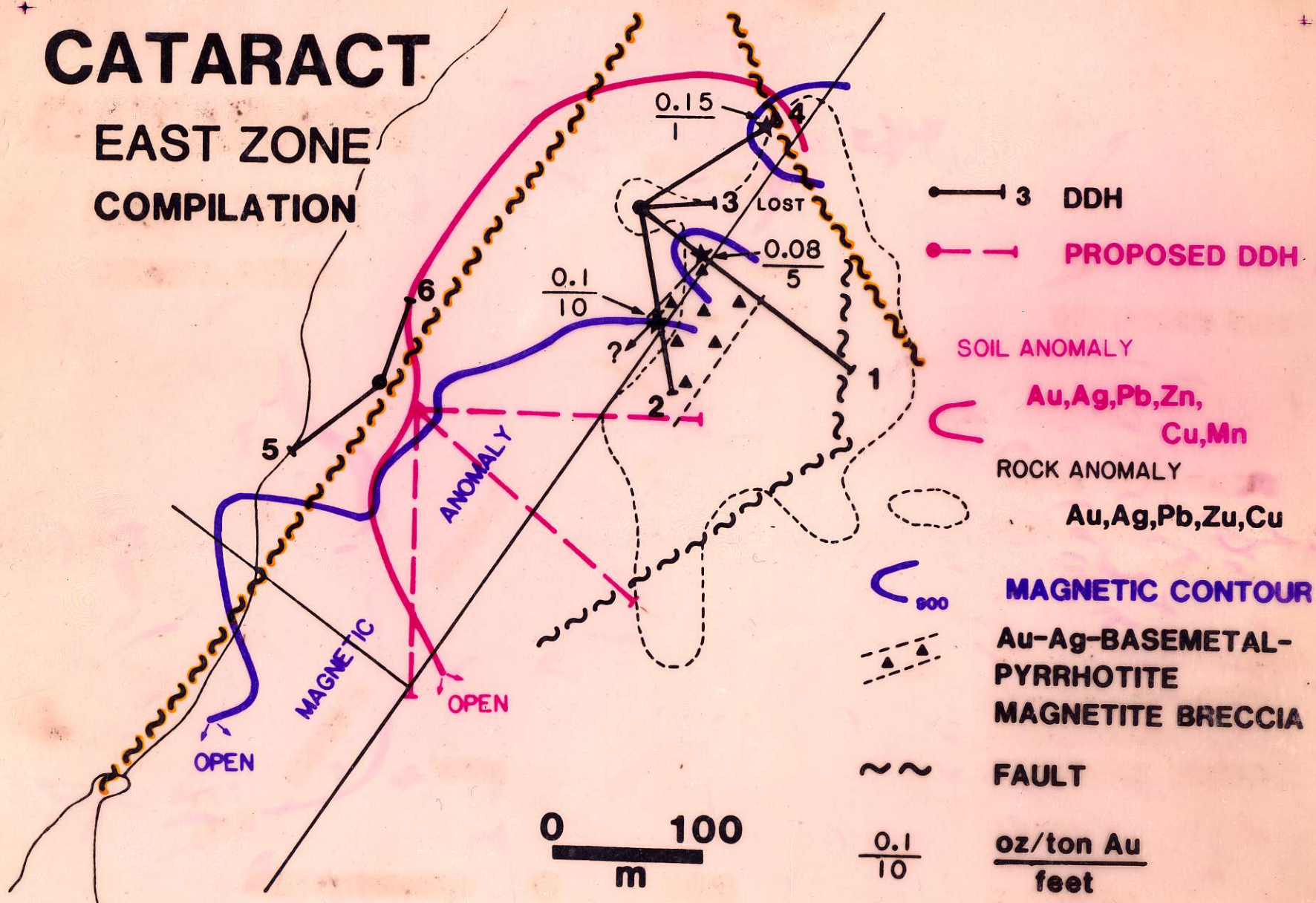
- > 99 ppb Au
- > 4.9 ppm Ag

- ~ FAULT
- PROPOSED LP.
- PROPOSED DRILL HOLE
- ~ LP. ANOMALY

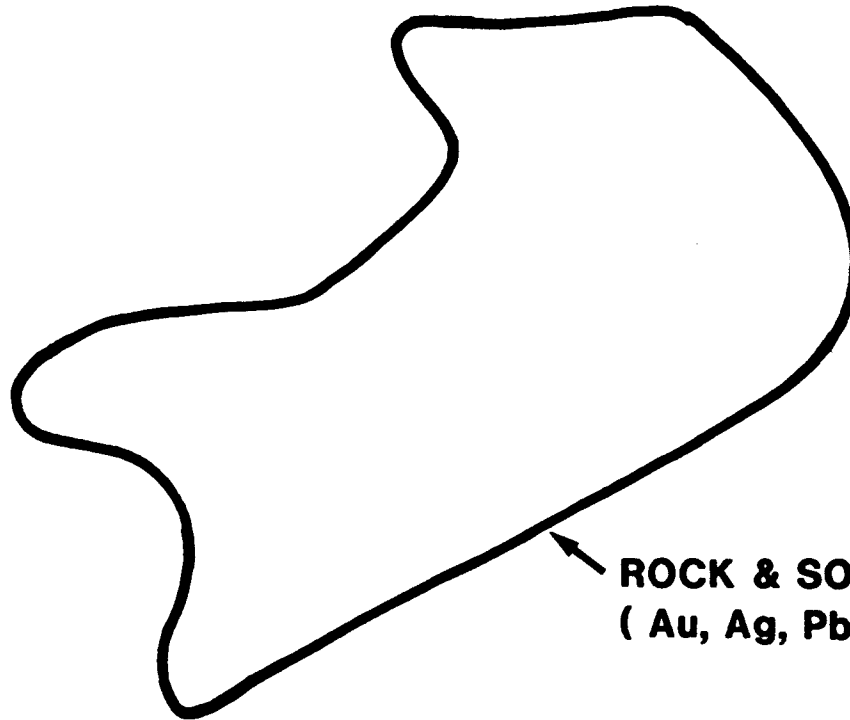
# EAST ZONE COMPILATION



# EAST ZONE COMPILATION



# **GEOCHEM.**



**ROCK & SOIL GEOCHEM. ANOMALIES**  
**( Au, Ag, Pb, Zn, Cu, Mn )**

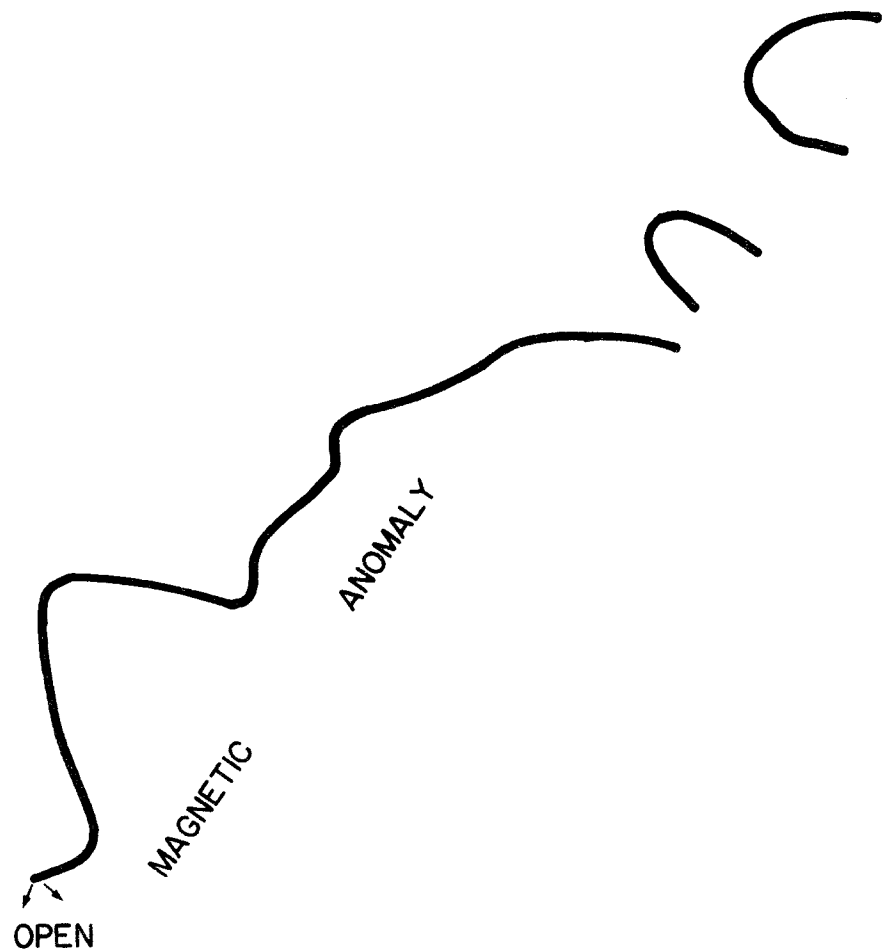
# GEOPHYSICS

 MAG. HIGH  
 VLF ANOMALY



+

+

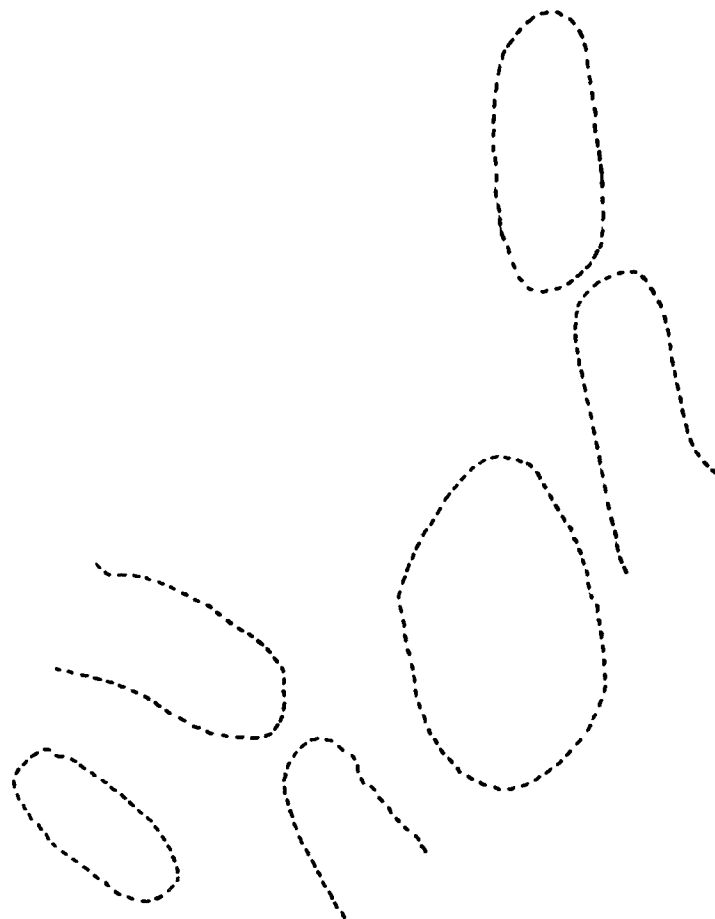


900

MAGNETIC CONTOUR

+

+



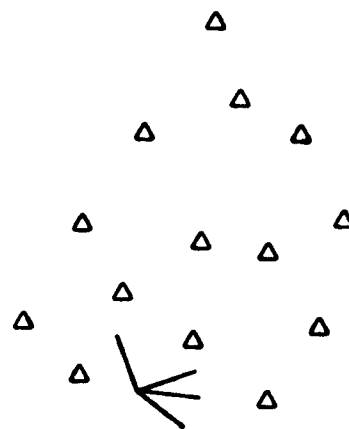
IP ANOMALY (detail)  
Dp = 50 m

+

+

△ MICROBRECCIA

↙  
BASE METAL  
FRACTURE TRENDS



+

+

<

IP > 20 millise.,  
n=1, Dp=100 m

OPEN

