

COMINCO LTD.

EXPLORATION
NTS 92H/15E

WESTERN DISTRICT
December 11, 1979

ASSESSMENT
REPORT ON GROUND MAGNETICS,
SOIL GEOCHEMISTRY AND GEOLOGICAL
MAPPING OF THE THALIA PROPERTY
(THALIA 1 - 7 CLAIMS)

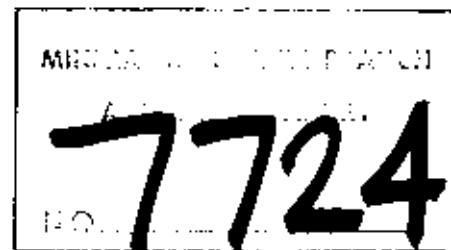
Missegula Lake Area, Nicola M.D.
During the Period May 12 to 20, 1979

Latitude: 49°50'N

Longitude: 120°35'W

Report by:

D.T. Mehner



PART 1
OF 2

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SUMMARY

The Thalia property is an alkaline porphyry copper prospect located in the Aspen Grove complex, 13 km south of Aspen Grove, B.C. Geological mapping indicates the property is underlain by a sequence of Upper Triassic, Nicola volcanics intruded by chalcocite and or chalcopyrite bearing diorite and monzonite plugs.

Old trenches on the east side of the property have exposed mineralized diorite and brecciated basalt boulders with assay values up to 0.38% Cu over 15 m and 2.5% Cu and 0.3oz/ton Ag over 1 m respectively. A north-northwesterly trending I.P. anomaly, 1400 m x 150 m and open to the north and south, overlies the trenched mineralization. In an attempt to test the mineralized diorite and I.P. anomaly, 6 percussion holes totalling 910 feet were drilled between September 5 and September 23, 1979. Only 2 holes intersected bedrock with the best intersection being 105 feet of 0.14% Cu.

In the central portion of the property, green fragmental volcanics are intruded by chalcocite and chalcopyrite bearing diorite dikes. A Cu rock geochemical anomaly envelopes these rocks and trends in a southwesterly direction, disappearing beneath overburden. Geological mapping, soil geochemistry and ground magnetics were carried out over the Thalia West Grid between May 12 and May 20, 1979 in an attempt to trace the anomaly through the overburden. Two ground magnetic anomalies were located in the northern part of the grid. No copper soil anomalies were observed.

Geological mapping on Thalia 6 and 7 mineral claims was carried out between August 20 and August 22 to evaluate the area for potential copper mineralization. Little encouragement was found.

It is recommended that additional geological mapping, ground magnetics and soil geochemistry be carried out in an attempt to better define the location of the mineralized diorite, before further percussion drilling is carried out.

INTRODUCTION

The Thalia property (Thalia Mineral Claims 1 to 7) was staked in March 1978 to cover an alkaline porphyry copper prospect. Work on the property that summer located a north-northwest trending I.P. anomaly (150 m x greater than 1400 m) adjacent to mineralized trenches and boulders in the eastern part of the property, and a large Cu rock geochemistry anomaly that disappears beneath overburden in the central part of the property (Plate 1).

During the period May 15 to May 31, 1979, M.R. Schaumberger and M.L. Serack carried out mapping, ground magnetics and soil geochemistry over the southern end of the Cu rock geochem anomaly (Thalia West Grid). They also mapped Thalia 6 and 7 mineral claims between August 20 and August 22. Between September 5 and September 23, 6 percussion holes were drilled over the I.P. anomaly on the east side of the property (Thalia East Grid).

LOCATION AND ACCESS

The Thalia property is located on the east side of Highway 5, 13 km south-southeast of Aspen Grove, B.C. and 3.2 km north-northwest of Missezula Lake. Access to the property is provided by the gravel roads that lead into Missezula and Bluey Lakes, about 12 km south of Aspen Grove (Plate 2).

TOPOGRAPHY AND VEGETATION

The property is situated at an elevation of 1040 m to 1340 m along a pronounced northerly trending ridge that forms the core of the Aspen Grove alkaline complex. It is covered by sparse to moderately dense pine and fir forests with parts of it open savannah. Three ponds and one lake provide abundant water for drilling.

PROPERTY AND OWNERSHIP

The Thalia property is located in the Nicola Mining Division and is 100% owned by Cominco Ltd. It consists of the following claims:

<u>CLAIM</u>	<u>NUMBER</u>	<u>UNITS</u>	<u>DATE RECORDED</u>	<u>DATE DUE</u>
THALIA 1	431	20	March 30, 1978	March 30, 1982
THALIA 2	432	5	March 30, 1978	March 30, 1982
THALIA 3	433	12	March 30, 1978	March 30, 1980
THALIA 4	434	4	March 30, 1978	March 30, 1982
THALIA 5	435	6	March 30, 1978	March 30, 1982
THALIA 6	527	1	Dec. 21, 1978	Dec. 21, 1979
THALIA 7	532	2	Dec. 21, 1978	Dec. 21, 1979

PREVIOUS WORK

No assessment reports have been filed for the area but old claim posts dated back to 1962 were noted (Plate 1). Trenching, old grids and two diamond drill hole sites are the only evidence of physical work.

GEOLOGY

The Thalia property is underlain by Triassic, alkaline Nicola volcanics intruded by coeval diorite and monzonite dikes and plugs. Tertiary valley basalts cover the extreme eastern side of the property (Plate 1).

Crystal lithic tuffs and tuff breccias with diorite or diorite and basalt fragments and minor reworked volcanoclastic material are the major components of the volcanic pile in the central part of the property. Small plugs of medium grained monzonite and fine grained diorite intrude the volcanic pile.

In the northeast, east and western portions of the property, red siltstones, pebbly conglomerates, lahars and minor pink crystal lithic tuffs and interbedded basalt flows make up the remainder of the volcanic pile. Fine grained diorite intrudes these rocks as well.

Colour of the volcanoclastic rocks varies from green to red, with the green rocks more prevalent in the central part of the property and the red, oxidized sequences surrounding them.

Tertiary, amygdaloidal valley basalts overlie the Triassic volcanics on the eastern side of the property.

The northern extension of the Summer's Creek-Missezula Lake Fault runs through the east part (Thalia 4,6 and 7 claims) of the property.

MINERALIZATION

Copper mineralization is known at four locations on the property and in each case is associated with diorite (Plate 1). The first area is in the northern part of the property where basalt flows are in contact with diorite. Here boulders of brecciated red basalt contain chalcocite. The second area of mineralization is 1000 m to the south-southeast where chalcocite and malachite occur along fractures in highly fractured diorite. The third mineralized area is in the central part of the property where chalcocite, possible chalcocite and malachite are disseminated in diorite fragments in tuff breccias and occur along fractures and in the matrices of these breccias. The fourth area of mineralization is in the southern part of the property where chalcocite occurs along a major west-northwest trending fault zone.

GEOCHEMISTRY

A soil geochemical survey was conducted over part of the Thalia West Grid (Plate 1) in an attempt to trace a Cu rock geochemical anomaly that trends toward the grid and disappears beneath overburden.

A total of 165 samples were collected at 50 meter intervals along 10 grid lines. All samples were analyzed for Cu by Cominco's laboratory in Vancouver. Results are listed in Appendix "A" and sample locations are shown on Plate 3.

All samples were collected from the B soil horizon. They were air dried and then sieved through 80 mesh screens. Copper analysis was then made using nitric acid (20% HNO_3) digestion followed by atomic absorption.

Copper values are generally low with a range of 7 to 75 ppm and an average of 22 ppm Cu. These are considered to be background values for the area and as such no Cu soil anomalies exist in the area tested.

GEOPHYSICS

A ground magnetics survey was conducted over the northern part of the Thalia West Grid (Plate 1). Readings were taken every 25 meters along 4 grid lines. The values are listed in Appendix "B" and the station locations are shown on Plate 4.

The survey was conducted with a Scintrex MP-2 proton precession magnetometer that measures the earth's total magnetic field to the nearest gamma. Diurnal variation was checked for by establishing a base station and taking readings at it every hour. Little change in values was observed at the base station and no corrections were made.

Background was taken to be 57,200 gammas. Values in excess of this were plotted on Plate 4 and contoured. A significant magnetic anomaly exists on the north-west quarter of the grid and on the eastern part of line 2N. Based on ground magnetic surveys conducted over the property in 1978, the magnetic anomalies may be due to either fine grained diorite (unit 3b, Plate 1) or green pyroclastics (unit 1c, Plate 1).

DRILLING

Six percussion holes totalling 910' were drilled on the property between September 5, 1979 and September 23, 1979. The purpose of the drilling was to test an I.P. anomaly that at least in part, covers mineralized diorite. The success of the program was minimal as only two of the six holes encountered bedrock, and only one of the two intersected diorite. However the hole that did reach diorite had a 105 ft intersection of 0.14% Cu. Further drilling is obviously warranted in order to evaluate the mineralized diorite.

A table listing rock type, sulphide mineralogy and alteration assemblage is available in Appendix "C". Copper values obtained from drill hole pulps taken every 10 feet are listed in Appendix "D". Percussion drill hole locations are shown on Plate 1.

CONCLUSIONS

Geological mapping of Thalia 6 and 7 mineral claims indicates the rocks are of little interest for copper exploration at this time.

Mapping, soil geochemistry and ground magnetics on Thalia West Grid did not indicate the presence of copper mineralization. A strong magnetic high on the northern part of the grid may be due to green volcanic fragmentals or diorite.

Percussion drilling did not test the proposed target. Four of six holes failed to reach bedrock and a fifth hole drilled on an I.P. anomaly encountered maroon basalt flows with no mineralization. The sixth hole drilled on the I.P. anomaly encountered diorite and had an intersection of 0.14% Cu over 105 feet.

RECOMMENDATIONS

The mineralized diorite definitely warrants further testing by percussion drilling. However, before such drilling is done, a detailed ground magnetic survey should be carried out over the Thalia East Grid. This would aid in locating the exact position of the poorly exposed, mineralized diorite.

Also, a semi-detailed mapping, ground magnetics and soil geochemistry survey should be carried out over the entire northern part of the property and to the north of the property in an attempt to locate more mineralized diorite and to explain the I.P. anomaly on the east grid which covers the mineralized diorite and opens to the north.

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PLATE 3 Map showing sample locations of soil geochem survey on Thalia West Grid.	
PLATE 4 Contour map of ground magnetic survey on Thalia West Grid.	

REFERENCES

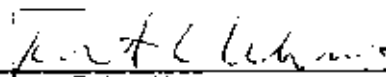
- Osatenko, M.J., 1979 Assessment Report on Geological, Rock and Soil
Geochemical and Ground Magnetic Work on the Thalia
Property, Thalia Mineral Claims 1 - 7, Assessment
Report available in March, 1980.
- Preto, V., 1974 Geology of Aspen Grove Area, B.C., Map 15, sheet 5.
Ministry of Mines and Petroleum Resources.

Report by:



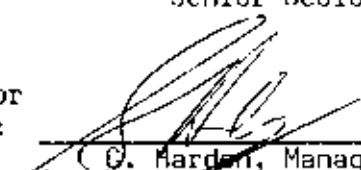
D.T. Mehner
Geologist I

Endorsed by:



F.L. Wynne
Senior Geologist

Approved for
Release by:



C. Hadden, Manager
Western District, Exploration

APPENDIX "A"

1979 Soil Geochemistry Survey on Thalia 1 and Thalia 3 Claims

<u>Grid Location</u>	<u>Cu. ppm</u>	<u>Grid Location</u>	<u>Cu. ppm</u>
2N/50W	30	2N/00(B.L.)	31
100W	29	50E	22
150W	26	100E	23
200W	30	150E	27
250W	29	200E	31
300W	37	250E	30
350W	44	300E	35
400W	60	350E	33
450W	30	400E	23
500W	27	450E	40
550W	41	500E	37
		550E	37
0/00(B.L.)	32	0/500W	25
50W	24	550W	27
100W	34	600W	28
150W	26	650W	50
200W	36	700W	25
250W	21		
300W	32		
350W	33		
400W	24		
450W	25		
4S/50W	27	4S/00(B.L.)	22
100W	20	50E	20
150W	20	100E	40
200W	25	150E	26
250W	18	200E	20
300W	36	250E	24
350W	29	300E	20
400W	40		
450W	40		
500W	36		
550W	38		
600W	48		
650W	41		
700W	33		
750W	25		
800W	23		

<u>Grid Location</u>	<u>Cu. ppm</u>	<u>Grid Location</u>	<u>Cu. ppm</u>
6S/50W	18	6S/00(B.L.)	24
100W	20	50E	14
150W	27	100E	16
200W	27	150E	11
250W	25	200E	29
300W	25	240E	17
350W	22	300E	
400W	24	350E	25
450W	24	400E	26
500W	19		
550W	17		
600W	17		
650W	7		
700W	11		
750W	13		
800W	18		
8S/50W	22	8S/00(B.L.)	8
100W	24	50E	30
150W	19	100E	41
200W	21	150E	17
250W	12	200E	20
300W	15	250E	10
350W	10	300E	19
400W	18	350E	16
450W	21	400E	15
500W	23	450E	18
550W	30	500E	
600W	12	550E	47
650W	16	600E	19
700W	10	650E	12
750W	14	700E	11
800W	15		
10S/50W	14	10S/00(B.L.)	34
100W	20	50E	18
150W	21	100E	22
200W	41	150E	16
250W	16	200E	41
300W	15	250E	21
350W	15	300E	75
400W	11	350E	36
450W	14	400E	20
500W	13	450E	24
550W	17	500E	17
600W	15	550E	19
650W	12	600E	24
700W	16	650E	39
750W	12	700E	19
800W	11		

Note: All samples were analyzed by Cominco Ltd. Laboratory. Copper was determined by a method using Nitric Acid digestion followed by atomic absorption. Coefficients of variation are 10-15%.

APPENDIX "B"

1979 GROUND MAGNETICS SURVEY ON THALIA 1 and THALIA 3 CLAIMS

(All Values Should Be Added To 57,200 Gammas To Get The Absolute Magnetic Field)

<u>GRID LOCATION</u>	<u>GAMMAS</u>	<u>GRID LOCATION</u>	<u>GAMMAS</u>
2N/25W	449	2N/00(B.L.)	825
50W	496	25E	382
75W	687	50E	428
100W	319	75E	383
125W	1378	100E	473
150W	1456	125E	473
175W	1465	150E	621
200W	1180	175E	967
225W	1177	200E	1033
250W	1178	225E	1463
275W	1139	250E	1160
300W	1098	275E	866
325W	1047	300E	792
350W	981	325E	830
375W	898	350E	889
400W	788	375E	888
425W	722	400E	899
450W	751	425E	75
475W	727	450E	1003
500W	554	475E	1081
525W	503	500E	1516
550W	545	525E	1516
0/00(B.L.)	465	0/375W	986
25W	524	400W	807
50W	555	425W	827
75W	535	450W	714
100W	552	475W	475
125W	683	500W	406
150W	775	525W	493
175W	918	550W	484
200W	1059	575W	491
225W	1100	600W	469
250W	1157	625W	562
275W	1309	650W	578
300W	1428	675W	555
325W	2294	700W	537
350W	1725		

<u>GRID LOCATION</u>	<u>GAMMAS</u>	<u>GRID LOCATION</u>	<u>GAMMAS</u>
2S/00(B.L.)	203	2S/425W	464
25W	267	450W	439
50W	292	475W	441
75W	129	500W	400
100W	23	525W	477
125W	-33	550W	529
150W	445	575W	491
175W	643	600W	463
200W	306	625W	460
225W	536	650W	424
250W	5	675W	444
275W	560	700W	497
300W	212	725W	439
325W	413	750W	469
350W	-240	775W	442
375W	306	800W	445
400W	441	2S/25E	214
4S/00(B.L.)	26	4S/625W	53
25W	22	650W	94
50W	-67	675W	217
75W	-100	700W	244
100W	-104	725W	208
125W	-71	750W	192
150W	483	775W	181
175W	510	800W	191
200W	436	4S/25E	91
225W	487	50E	67
250W	308	75E	120
275W	358	100E	208
300W	295	125E	50
350W	241	150E	-30
375W	536	175E	-155
400W	393	200E	28
425W	224	225E	15
450W	-77	250E	15
475W	-189	275E	577
500W	8	300E	622
525W	27		
550W	75		
575W	57		
600W	32		

Note: Instrument used was a Scintrex MP-2 proton precession magnetometer.
 Readings represent earth's total magnetic field.

APPENDIX "C"

Rock Types, Mineralization and Alteration Assemblages of 1979 Thalia Property
Percussion Holes

<u>HOLE</u>	<u>FOOTAGE</u>	<u>ROCK TYPE</u>	<u>MINERALIZATION</u>	<u>ALTERATION</u>
TPH-79-1	0-60	Overburden	----	---
TPH-79-2	0-90	Overburden	----	---
TPH-79-3	0-70	Overburden	----	---
TPH-79-4	18-180	Maroon Volcanics	N.V.S.	Hm
	180-300	Maroon Volcanics	N.V.S.	Ab-Hm
TPH-79-5	25-50	Porph. Diorite	Tr Mal.	Hm-Ab
	50-110	Porph. Diorite	Tr Mal.	Ab-Hm
	110-170	Porph. Diorite	N.V.S.	Hm-Ab
	170-300	Porph. Diorite	N.V.S.	Ab-Hm
TPH-79-6	0-90	Overburden	----	---

Note:

N.V.S. No Visible Sulphides
 Mal. Malachite
 Hm Hematite
 Ab Albite
 Tr Trace

Alteration Listed In Decreasing Order of Abundance.

APPENDIX "D"COPPER ASSAYS FOR 1979 PERCUSSION DRILL HOLES TAKEN OVER 10' INTERVALS

<u>DRILL HOLE</u>	<u>FOOTAGE</u>	<u>Cu ppm (1.)</u>
TPH-79-4	18-30	81
	30-40	90
	40-50	76
	50-60	147
	60-70	180
	70-80	127
	80-90	114
	90-100	108
	100-110	87
	110-120	81
	120-130	78
	130-140	100
	140-150	100
	150-160	540
	160-170	900
	170-180	380
	180-190	190
	190-200	171
	200-210	146
	210-220	122
220-230	140	
230-240	81	
240-250	93	
250-260	100	
260-270	100	
270-280	105	
280-290	117	
290-300	120	
TPH-79-5		<u>%Cu (2.)</u>
	25-40	0.18
	40-50	.17
	50-60	.12
	60-70	.21
	70-80	.07
	80-90	.08
	90-100	.19
	100-110	.11
	110-120	.11
	120-130	.12
130-140	.01	
140-150	.01	

<u>DRILL HOLE</u>	<u>FOOTAGE</u>	<u>%Cu</u>
TPH-79-5	150-160	.01
	160-179	.01
	170-180	.01
	180-190	.01
	190-200	.01
	200-210	.01
	210-220	.01
	220-230	.01
	230-240	.01
	240-250	.02
	250-260	.01
	260-270	.03
	270-280	.03
280-290	.01	
290-300	.01	

NOTE: All samples were analyzed by Cominco Ltd. Research Laboratory in Vancouver, B.C.

1. Copper was determined by a method using aqua regia digestion followed by atomic absorption. Coefficients of variation 10-15%.
2. Copper was determined using a hydrofluoric-perchloric acid digestion followed by atomic absorption.

APPENDIX "E"

Statement of Expenditures for Work on the Thalia Mineral Claims

GEOLOGY

SALARIES

M.R. Schaumberger	8 days @\$100/day May 12,13,14,19,20,31; Aug. 20,22	\$ 800.00
M.L. Serack	8 days @\$95/day May 12,13,14,19,20,31; Aug. 20,22	760.00

SOIL GEOCHEMISTRY

SALARIES

M.R. Schaumberger	9 days @\$100/day May 15,17,18,23,24,25,26,27,28	900.00
M.L. Serack	9 days @\$95/day May 15,17,18,23,24,25,26,27,28	855.00

ASSAYS 165 samples of Cu assays @ 2.50 412.00

MAGNETOMETER RENTAL 14 days @ \$14.70/day 206.00

PERCUSSION DRILLING 910 Ft. @ \$4.31/ft 3920.00

MISCELLANEOUS (sample bags, phone calls, percussion
drill hole assays) 600.00

TRANSPORTATION 1 truck 18 days @ \$35/day 630.00

DOMICILE 36 man days @ \$27/day 972.00

TOTAL \$ 10,055.00

Signed: _____

D. I. Mehner
D.I. Mehner
Geologist I

APPENDIX "F"

In the Matter of the
B.C. Mineral Act

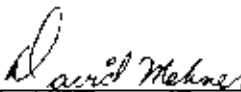
AND

In the Matter of a Ground Magnetics, Soil Geochemistry, Geological Mapping
and Percussion Drilling Program, Carried out on the Thalia Mineral Claims,
Located in the Nicola Mining Division
of the Province of British Columbia
More particularly N.T.S. 92H/15E

AFFIDAVIT

I, DAVID T. MEHNER OF THE CITY OF VERNON IN THE PROVINCE OF BRITISH COLUMBIA,
MAKE OATH AND SAY:

1. That I am employed as a Geologist I, by Cominco Ltd. and as such have a personal knowledge of the facts which I hereinafter depose;
2. That annexed hereto and marked as Appendix "E" to this my report is a true copy of expenditures of a ground magnetics, soil geochemistry, geological mapping and percussion drill program carried out on the Thalia Mineral Claims;
3. That the said expenditures were incurred between the twelfth day of May, 1979 and the twenty-third day of September, 1979 for the purpose of mineral exploration on the above noted claims.



DAVID T. MEHNER

APPENDIX "G"

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

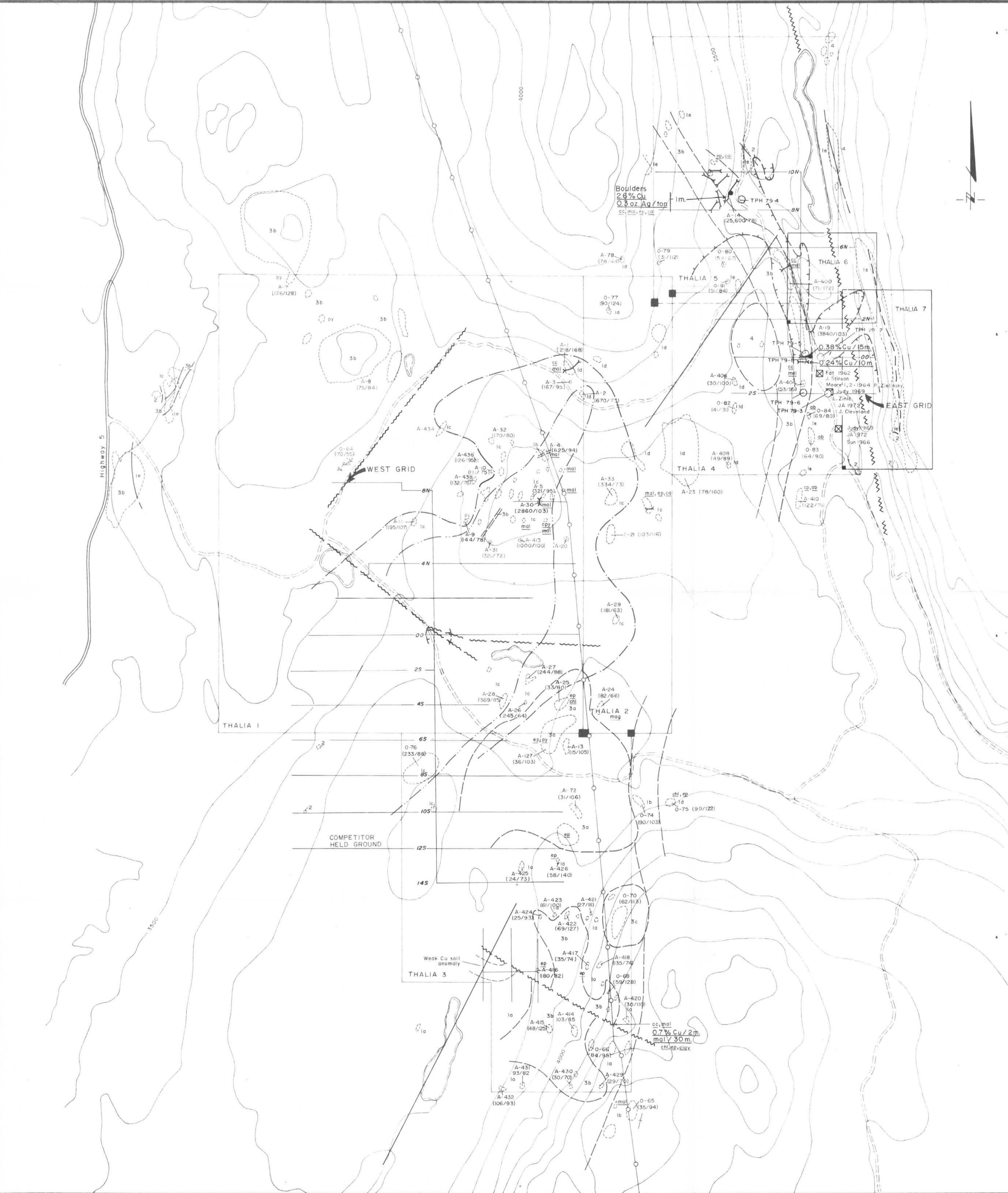
I, DAVID T. MEHNER, OF THE CITY OF VERNON, BRITISH COLUMBIA, HEREBY CERTIFY:

1. That I am a geologist, residing at 206-4100 Alexis Park Drive, Vernon, British Columbia.
2. That I graduated with a B. Sc. Hon. degree in Geology from the University of Manitoba in 1976.
3. That I have practised Geology with Cominco Ltd. from October 1979 to present.

Dated this 12th day of December, 1979 at Vernon, British Columbia.



David T. Mehner



LEGEND

TERTIARY

4 Valley amygdaloidal basalts.

UPPER TRIASSIC

3 Porphyritic monzonite and diorite dykes and plugs.

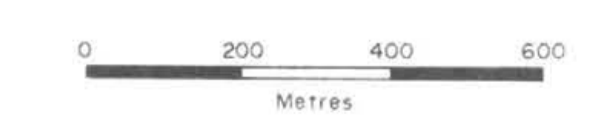
- 3a Medium grained monzonite.
- 3b Fine grained diorite.
- 3c Diorite, igneous breccia.

2 Basalt flows.

1 Fragmental rocks.

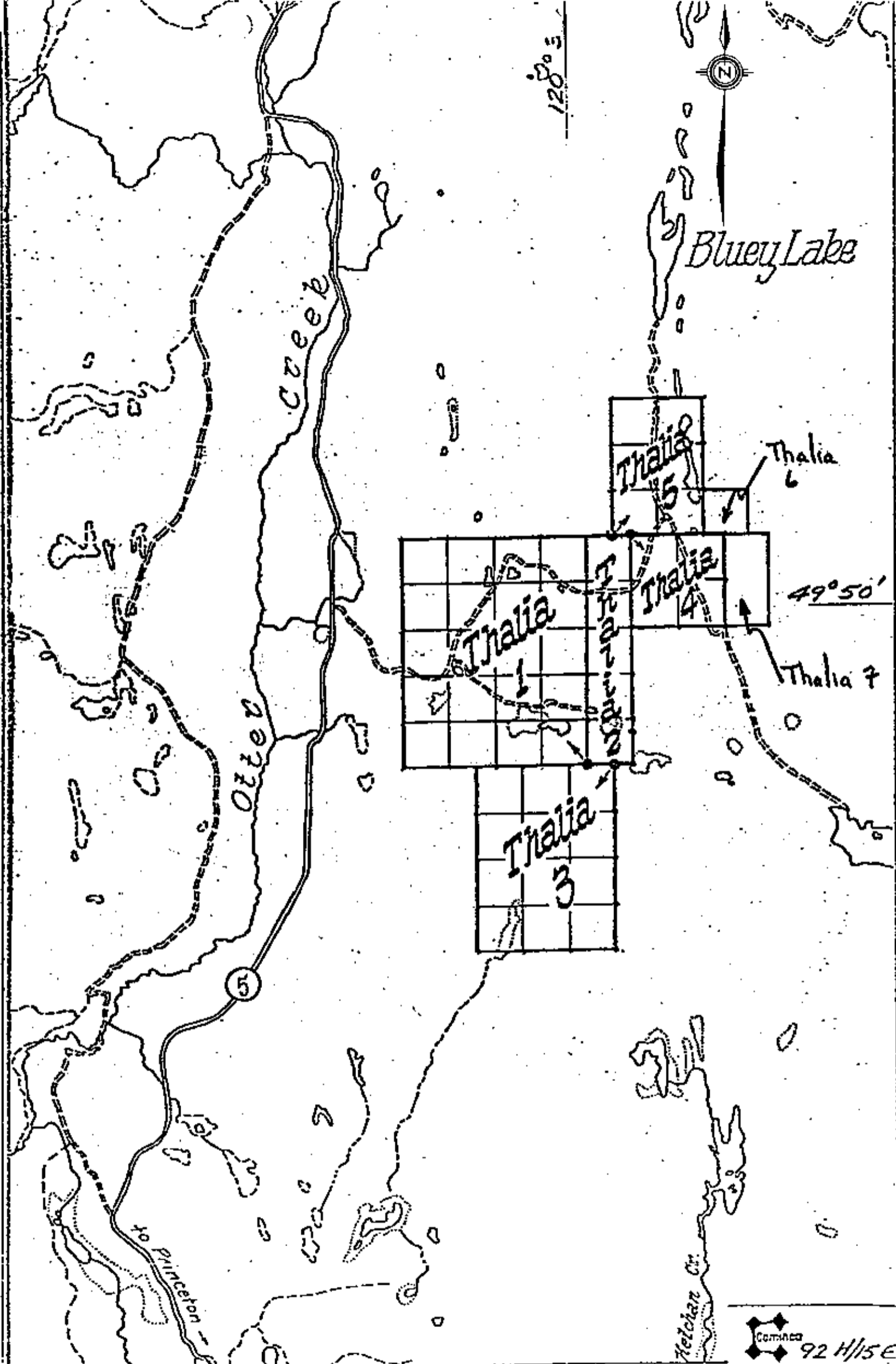
- 1a Green, crystal lithic tuffs and tuff breccias with diorite and basalt fragments (pyroclastic and volcanoclastic).
- 1b Red equivalent of 1a.
- 1c Green, crystal lithic tuffs and tuff breccias with diorite fragments (pyroclastic).
- 1d Pink equivalent of 1c.
- 1e Red or maroon, locally well bedded siltstones, pebbly conglomerates and lahars.

- Outcrop
- Geological contact, defined, inferred
- ~ Inferred fault.
- Linear
- Rock geochemical anomaly
- + 150 ppm Cu.
- + 300 ppm Cu.
- Trench.
- Claim post.
- Power line
- mal, ss, sp Mineralization
- mal - malachite.
- cc - chalcocite.
- cpy - chalcopyrite.
- I.P. anomaly (+7 m.volts, Background - 4-5 m.volts.).
- Proposed grid extension
- 1979 percussion drill hole
- Old drill hole.
- ⊠ Old claim post.
- ep, mag, chl, ab Alteration:
- chl - chlorite.
- ep - epidote.
- mag - magnetite.
- cal - calcite.
- ab - albite.
- A-24 (82/66) Rock sample number (Cu ppm / Zn ppm)



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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PART 1 OF 2

THALIA PROPERTY		92H/15E	
Drawn by: MJO	Traced by: FJF	GEOLOGY, COPPER ROCK GEOCHEM, AND I.P.	
Revised by: Date	Revised by: Date	Scale: 1:10,000	Date: DEC 10/79
BAR: JUN 18/79	BEH: Nov 23/79	Plate: /	



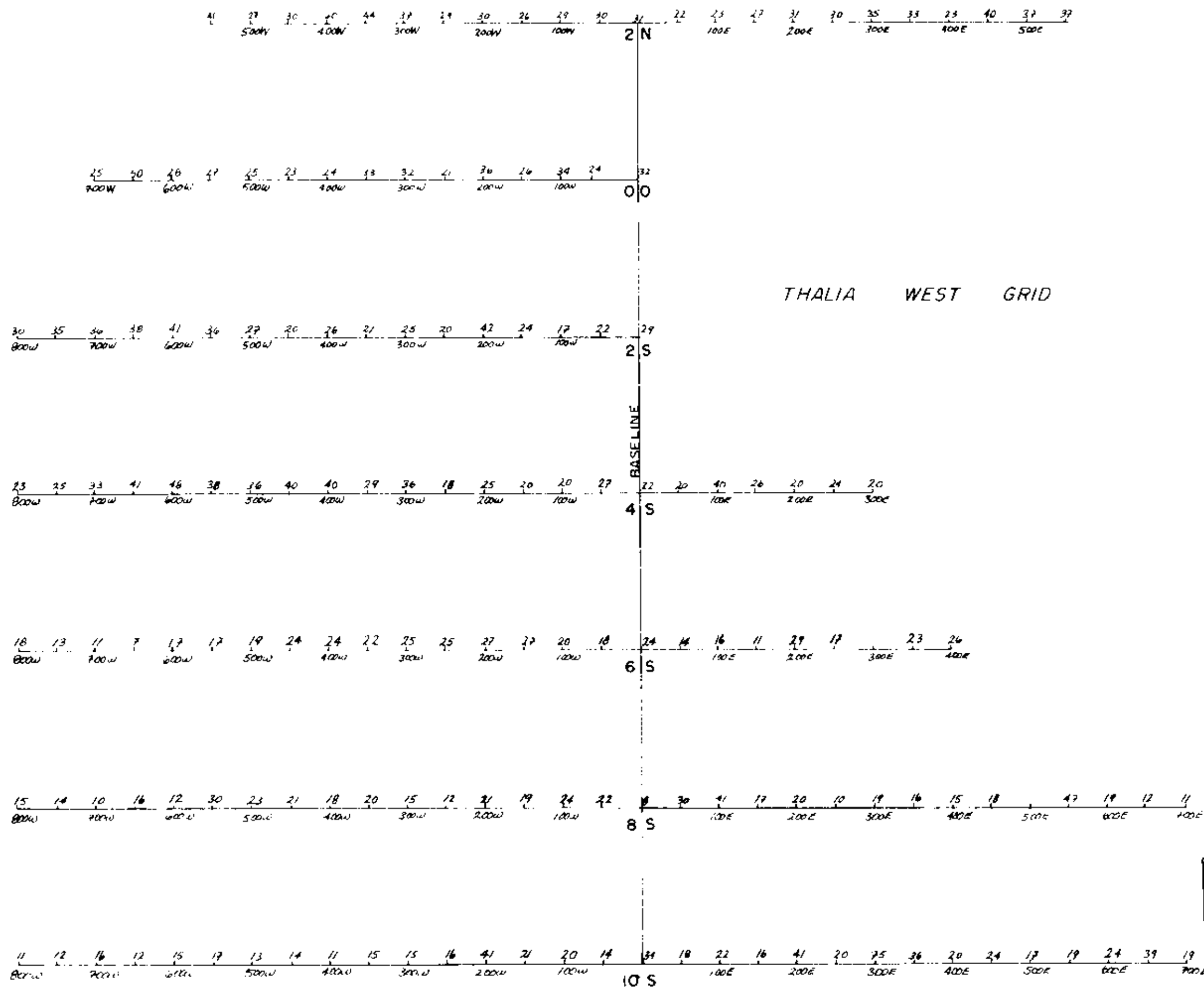
Compass 92 H/15 E

Drawn by:		Traced by:	
	Date		Date

LOCATION MAP
 THALIA CLAIMS 1-5
 NICOLA M.D. B.C.

PT 182
7724

Scale: 1:50,000 Date DEC. 12/74 PLATE: 2

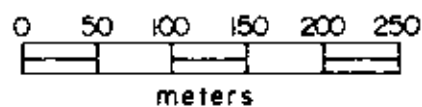


THALIA WEST GRID

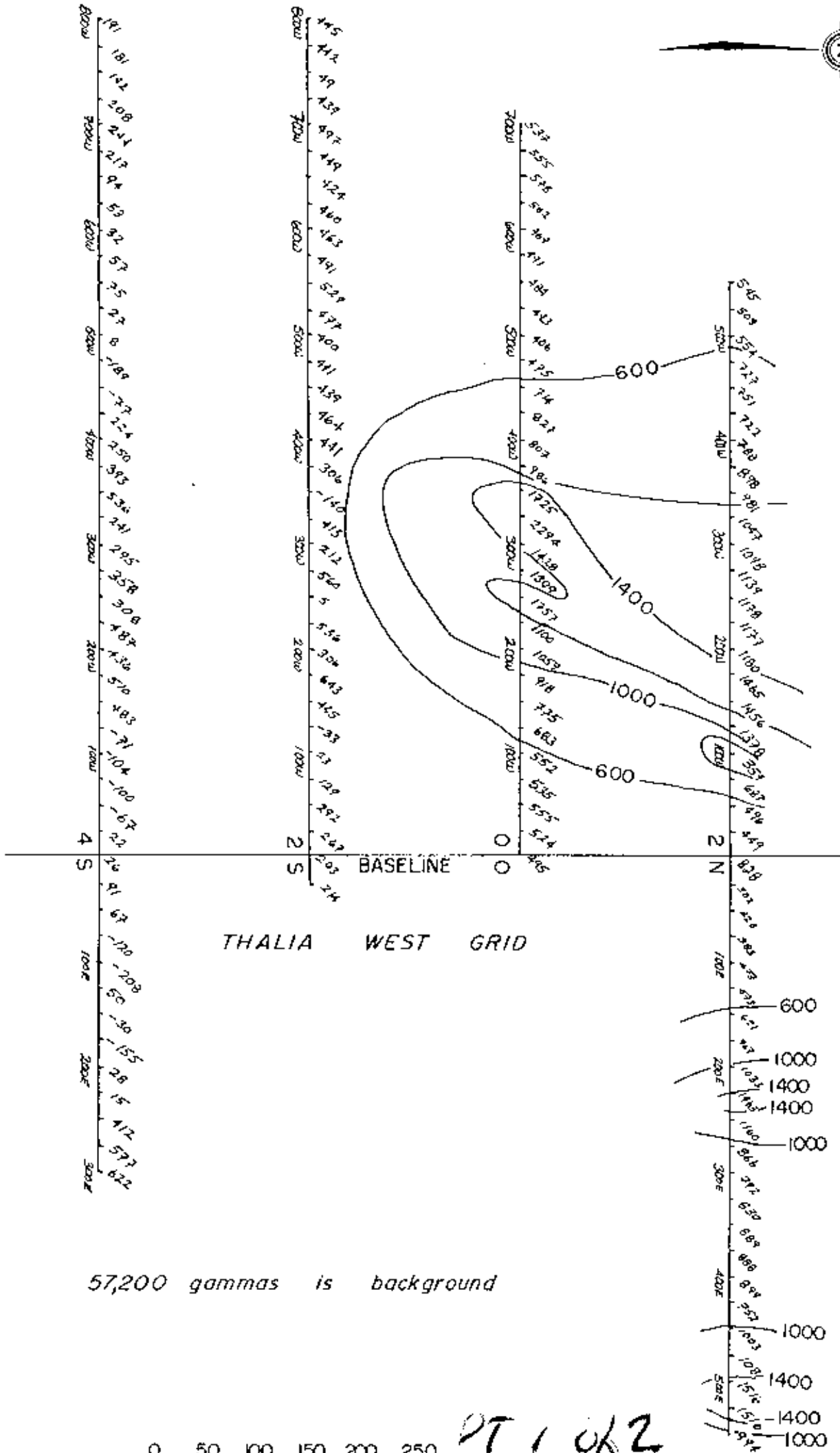
BASELINE

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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NO

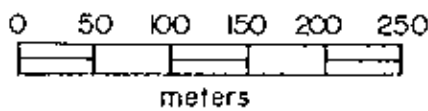
PT. 182



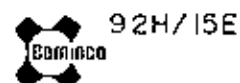
1979 THALIA Cu SOIL GEOCHEM SURVEY				92H/15E
Drawn by:	Traced by: <i>DW</i>			THALIA WEST GRID Cu SURVEY
Revised by:	Date:	Revised by:	Date:	
				VALUES in PPM
				Scale: 1:5000
				Date: DEC. 3, 1979
				Plate: 3



57,200 gammas is background



PT 1 of 2
7724



Drawn by: <i>DM</i>		Traced by:		1979 THALIA GROUND MAGNETICS SURVEY (THALIA WEST GRID)			
Revised by	Date	Revised by	Date				
				Scale: 1:5000	Date: DEC.3, 1979	Plate: 4	