

GEOLOGICAL, GEOPHYSICAL and GEOCHEMICAL REPORT

on the

"WAL" CLAIM

and

GENERAL WALHACHIN RECONNAISSANCE PROGRAM

KAMLOOPS MINING DIVISION

NTS Sheet	- 92I/10,11,14 & 15	UTM Grid	- Zone 10
Latitude	- 50°45'	North	- 5623500
Longitude	- 121°01'	East	- 640000

BETHLEHEM COPPER CORPORATION
2100 - 1055 West Hastings Street
Vancouver, B.C. V6E 2H8

October 30, 1979

R. G. Simpson
R. J. Nethery
Project Geologists

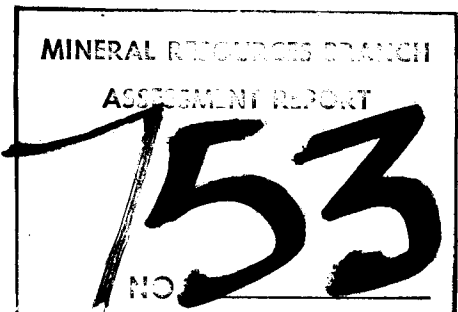


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		R. G. Simpson
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W-78-3	Topography - Sheet 1	1: 10,000
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W-78-8	Geological Plan - Sheet 3	1: 10,000
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W-78-10	Geochemical Plan - Pb - Sheet 1	1: 10,000
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Introduction

The Walhachin area was covered by reconnaissance rock geochemistry in August 1978. Favourable geology coupled with several anomalous rock geochemical values resulted in the staking of one claim (WAL claim, 15 units) in September. Further geological mapping and additional rock and soil geochemical sampling indicated several zones which warranted further testing with massive sulphides as the objective. Five E.M. lines were completed over the area of interest but no significant crossovers were encountered.

Location and Access

The main area of reconnaissance exploration is located immediately to the southwest of Walhachin and lies entirely on the south side of the Thompson River. Access is via gravel roads off Highway No. 1 at the Walhachin exit and via dirt roads off the Barnes Lake road.

A small contact area adjacent to the Trans-Canada Highway and immediately west of I.R. No. 5 was also explored. The project area is shown on drawing nos. W-78-1 and 2.

Topography and Physical Environment

The elevation of the mapped area varies from 1,100 m in the south to less than 400 m in the north. The upper region (above 800 m) is moderately timbered with pine whereas the lower areas are covered with grass and sagebrush. The region is semi-arid and receives less than 300 cm of precipitation annually. Two main drainages join on the north edge of the claim, Brassy Creek from SW and Rattlesnake Creek from SE.

Mineral Title

The WAL claim, which covers a small portion of the originally mapped reconnaissance region, was located on September 6, 1978 and recorded on September 25, 1978. A total of 15 units comprise the claim.

Geology

The mapped region south of the Thompson River is underlain mainly by Tertiary volcanic flows to the south and southwest and by Jurassic conglomerate to the east. In the central and northern portions of the area, upper Triassic Nicola Group rocks have been intruded by intermediate intrusives thought to belong to the border phase of the Guichon Batholith.

The Tertiary volcanics of the Kamloops Group are the youngest rocks exposed in the area and are typically flat-lying, red-brown to black basalt flows.

The Jurassic Ashcroft Group conglomerates and associated sediments are subhorizontal and unconformably overlie Triassic volcanic and intrusive rocks.

Exposures of the upper Triassic Nicola Group in the area are dominated by hydrothermally altered andesite flows and fragmental volcanic rocks containing moderate to high concentrations of fine grained, disseminated magnetite and variable amounts of pyrite (generally less than 1% but exceeding 5% locally). Several large limestone/marble bodies occur within the Nicola volcanics, commonly in fault contact. They strike north to northwesterly and are steeply dipping. Greywacke occurs locally on the west side of Brassie Creek.

Between Brassy and Rattlesnake Creeks a large body of hornblende diorite intrudes the Nicola Group. A smaller body of quartz porphyry intrudes both the Nicola and the diorite and is exposed along Rattlesnake Creek. In this vicinity a prominent gossan has formed due to weathering of heavily pyritized and silicified quartz porphyry and hornblende diorite.

A small body of quartz diorite porphyry with associated intrusive breccia bodies crops out 600 m south of the quartz porphyry and also appears to intrude the diorite. The breccia contains disseminated chalcopyrite and was the main target of a 1976 percussion drilling program conducted by B.P. Minerals Ltd. Five holes were completed with copper grades averaging .02 to .03%. A few ten foot sections assaying up to .056% were encountered.

Surface mineralization is most prevalent in the central area and is contained in narrow skarn zones where limestone is in contact with intrusive rocks. Pyrite and minor chalcopyrite are the most noted sulphides.

Soil and rock geochemistry has indicated anomalous copper values (200-600 ppm) in the vicinity of the gossan on Rattlesnake Creek. A smaller gossan on Brassy Creek contains minor chalcopyrite within strongly pyritized Nicola andesite and was drilled in 1973 by Ursus Minerals Ltd. Other diamond drill holes to the south encountered only widely scattered grains and blebs of chalcopyrite in Nicola Group volcanic rocks.

Southwest of the WAL claim an old adit has been driven into a skarn zone on the east side of Brassy Creek and a narrow vein of massive, cupriferous magnetite located 400 m further south has been trenched. Significant Ag, Cu and Fe values occur in these zones but the showings are too small to be of any current economic interest.

The geology of the surveyed area is shown on drawing nos. W-78-6 to 8.

Geophysical Survey

An E.M. survey was completed over lines 4, 5, 6, 7 and 8 and generally covered the area from station 25 to 105. Readings were taken every 50 m along these lines utilizing a pulse E.M. unit. The survey was carried out from October 10 to 12, 1978 by Glen E. White Geophysical and Consulting Services Ltd. Total line surveyed was 5.5 km and the location of the survey area is shown on drawing no. W-78-15.

Most of the lines surveyed show deep seated foci of the vectors representing direction to a secondary eddy current source. The depth and position of the foci with respect to the primary current loop are typical field responses to a conductive half-space. They do not appear to be related to any anomalous conductive zones which could be interpreted as a prospective drill target. Nor does there appear to be near surface foci strong enough to be the basis for a drill hole recommendation. It also should be noted that the instrument response does appear to delineate a couple of contacts between different geological units.

A report detailing the results of the survey is appended in Section C.
Geochemical Survey

Seven lines of soil geochemistry were completed, with lines spaced 250 m apart and samples taken every 100 m, these were assayed for Cu, Mo, Pb, Zn at the Kamloops Research & Assay Laboratory. The survey was over the northern half of the Wal claim which is mostly drift covered. Where available the sample was taken from the top of the 'B' horizon, but it should be noted that a clear differential between the horizons was noticeable in only 50% of the cases.

Double background readings in copper were obtained adjacent to the covered area on lines 3, 4 and 5 (generally at stations 8 and 9 S). An extremely high zinc value was obtained on line 9, station 4S which is near a large outcropping of limey Nicola sediments.

A rock geochemical survey of all the outcropping resulted in anomalous copper reading from three locations, all of which were incorporated by the soil survey. An anomalous molybdenum reading (37 ppm) also corresponded with an above background copper value (147 ppm) near line 6 station 8S.

All highly pyritized zones were also assayed for Au and Ag values but no significant values in these elements were detected.

The areas covered by the reconnaissance program were all subjected to rock geochemistry with samples being assayed from Pb, Zn, Cu and Mo.

The results of the geochem survey are plotted on drawing nos. W-78-9 to 14.

Conclusions and Recommendations

The E.M. survey was undertaken on the WAL claim with the specific purpose of detecting a massive sulphide target. Unfortunately no significant conductors were delineated. There remains the possibility of a small or medium sized porphyry type orebody within intrusive rocks underlying Rattlesnake Creek and extending under Tertiary conglomerates to the north and east. Disseminated chalcopyrite occurs in intrusive breccia outcrops along Rattlesnake Creek south of the WAL Claim boundary and intensely pyritized diorite and quartz porphyry form a gossan in the center of the claim.

A short percussion drill program of five or six holes should be adequate to test the potential for copper mineralization adjacent to Rattlesnake Creek and beneath the Tertiary sediments to the east. If encouraging results are obtained, discussions should commence with the owner of the adjacent "Geo" and "Chief" claims in order to explore the ground to the south. The proposed locations of the percussion holes is shown on drawing no. W-78-16.

Respectfully submitted,



R. G. Simpson,
R. J. Nethery, P.Eng.
Project Geologists

SECTION B - STATEMENT OF EXPENDITURES

Expense Period - September 6, 1978
to September 25, 1979

1. Consultant's Expenditures

(a) Glen E. White Geophysical and Consulting
Services Ltd. - 5.5 Km of vector pulse EM
survey on October 10-12, 1978.
- Invoice dated November 6, 1978 - \$1,555.00

Total Consultant's Expenditures \$1,555.00

2. Contractor's Expenditures

(a) Kamloops Research and Assay Laboratory Ltd.
- Invoice 1712 dated Sept. 15, 1978 - \$204.00
- " 1748 " Sept. 20, 1978 - \$104.00

\$308.00 \$ 308.00

(b) General Testing Laboratories
- Invoice V34838 dated Sept. 12, 1978
for Lab. Report 7808-3051A \$ 67.62

(c) Altair Drafting Services Ltd.

Drafting - Nov. 1978 - 21.0 hrs. @ \$14.00 - \$294.00
Dec. 1978 - 42.0 hrs. @ \$14.00 - \$588.00
Sept. 1979 - 5.0 hrs. @ \$14.00 - \$ 70.00
\$952.00

Printing - Nov. 1978 - \$23.63
Dec. 1978 - \$47.25
Jan. 1979 - \$66.15
Sept. 1979 - \$34.94

\$171.97 \$171.97
\$1123.97 1,123.97

Total Contractor Services \$1,499.59

SECTION B - STATEMENT OF EXPENDITURES (Contd.)

3 Bethlehem Expenditures

(a) Personnel

R.E. Anderson, P.Eng. - Exploration Manager 2 days in general project supervision @ \$185.00/day	\$ 370.00
R.J. Nethery, P.Eng. - Project Geologist (1978) Sept. 6,7, 26-28; Oct. 11-13, 18-19, 1978 10 days @ \$123.00/day	\$1,232.00
R.G. Simpson - Project Geologist (1978-79) Sept. 6,7,14,15,18, 1978 August 23-26, 1979 9 days @ \$79.31/day	\$ 713.79
J.G. Collins - Field Supervisor Sept. 11-15,20-22, 27,28; Oct. 12, 1978 11 days @ \$85.13/day	\$ 936.43
B. Kynoch - Field Assistant Sept. 6, 7, 14, 15, 1978 4 days @ \$52.09/day	\$ 208.36
M. Fisher - Field Assistant Sept. 6,7,14,15, 1978 4 days @ \$49.43/day	\$ 197.72
E. Andersen - Property Agent 2 days in data compilation and report preparation @ \$96.23/day	\$ 192.46
A. Emo - Secretary 1.5 days @ \$55.52/day	\$ <u>83.28</u>
Total Personnel	\$3,934.04

(b) Transportation

R.J. Nethery - Ford F-150 4WD Pickup 8 days @ \$35.00/day	\$ 280.00
J.G. Collins - Ford F-250 4WD Pickup 11 days @ \$35.00/day	\$ 385.00
R.G. Simpson - Ford F-150 4WD Pickup 9 days @ \$35.00/day	\$ <u>315.00</u>
Total transportation	\$ 980.00

SECTION B - STATEMENT OF EXPENDITURES (Contd.)

3. (c) Lodging and Meals

R.J. Nethery

- expenses for the week ending Sept. 9, 1978 - \$68.73
Sept. 30, 1978 - \$125.99
Oct. 14, 1978 - \$152.61

R.G. Simpson

- expenses for the week ending Sept. 9, 1978 - \$ 86.59
Sept. 16, 1978 - \$ 56.00
Aug. 25, 1979 - \$ 78.01

Total Lodging \$567.93

Total Bethlehem Expenditures \$5,481.97

Total Project Expenditures \$8,536.56

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

8251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6962

November 6, 1978

Mr. R. J. Nethery, P. Eng.
Bethlehem Copper Corporation
2100 - 1055 W. Hastings St.
Vancouver, B. C. V6E 2H8

INVOICE

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

As per agreement, Oct. 4/78 and

Oct. 10 - 12/78, three days @ \$485.....\$1455.00 ✓

Data Reduction.....100.00

Total.....\$1555.00

Amount of this invoice.....\$1555.00 ✓

848-011
110-002

1,555.00

1,555.00

11-848

O.K.

R. J. Nethery

Kamloops Research
&
Assay Laboratory
LTD.



SEP 18 1978 *RSW*
B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - ~~YBOXXDAK~~ - KAMLOOPS, B.C. ~~XXXKXKXK~~
2095 Phone: 372-2784 Telex: 048-8320 VLS 1A7

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

INVOICE: 1712
DATE: September 15, 1978.
FILE No. G-248

60 Geochemical Analyses -- soil -- ppm Copper, Lead, Zinc, Molybdenum @ \$2.75	\$165.00 ✓
12 Geochemical Analyses -- rock -- ppm Copper, Lead, Zinc, Molybdenum @ \$3.25	39.00 ✓
	<hr/>
	\$204.00 ✓
	<hr/>

11-84Z
A *Re*

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

SEP 25 1978

WEST TRANS CANADA HIGHWAY
2095

Phone: 372-2784

Telex: 048-8320

~~XXXXXXXX~~ KAMLOOPS, B.C. ~~XXXXXX~~
V1S 1A7

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

INVOICE: 1723

DATE: September 20, 1978.

FILE No. G-252

32 Geochemical Analyses -- rock -- ppm Copper,

Lead, Zinc, Molybdenum @ \$3.25

\$104.00 ✓

11-842

Handwritten initials and signature:
A ROK
K

INVOICE

SEP 13 1978



BO 125

General Testing Laboratories Division
Superintendence Company (Canada) Ltd.
1001 East Pender St.
Vancouver, B.C. V6A 1W2
Ph (604) 254-1647

INVOICE V34838
DATE September 12, 1978
JOB NO.
LAB NO. 7808-3051A/B

TO: BETHLEHEM COPPER CORPORATION LTD.
2100 - 1055 West Hastings Street
Vancouver, B.C.
V6E 2H8

JC	JOB #	CM	G.L.	DR	RE

To: Assaying submitted samples of Ore (as per enclosed reports)
for:

7808-3051A	21 CuPbZnMo (Geochem)	x	3.00	=	63.00	/
	sample prep. @ 0.50			=	10.50	/
					<u>73.50</u>	/
7808-3051B	3 AuAg	x	8.50	=	25.50	/
	sample prep @ 0.50			=	1.50	/
					<u>27.00</u>	/

842-81
110-002

92.46

12.46

Less 8% discount

100.50

8.04

\$ 92.46

11-842

DUE AND PAYABLE ON RECEIPT OF INVOICE. 1 1/4% PER MONTH (18%) PER ANNUM CHARGED ON OVERDUE ACCOUNTS.

Glen E. White

GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6962

November 6, 1978

Mr. R. J. Nethery, P. Eng.
Bethlehem Copper Corporation
2100 - 1055 W. Hastings St.
Vancouver, B. C. V6E 2H8

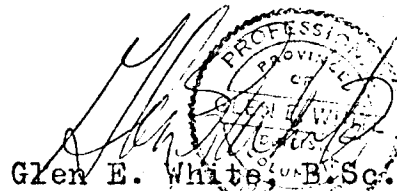
Dear Sir:

Pursuant to your request of October 4, 1978, 5.5 km of vector pulse electromagnetometer surveying was completed over the Walhachen claim from October 10 - 12, 1978.

The lines surveyed show deep seated vector foci representative of a conductive half-space response from the overburden. Several lines, such as on line 7 from Loop A at 8 / 00S - 8 / 50S, showed changes in vector angles which are usually suggestive of a geological contact. The trends of these possible contacts, or change in overburden conditions, are shown on the grid and loop location map.

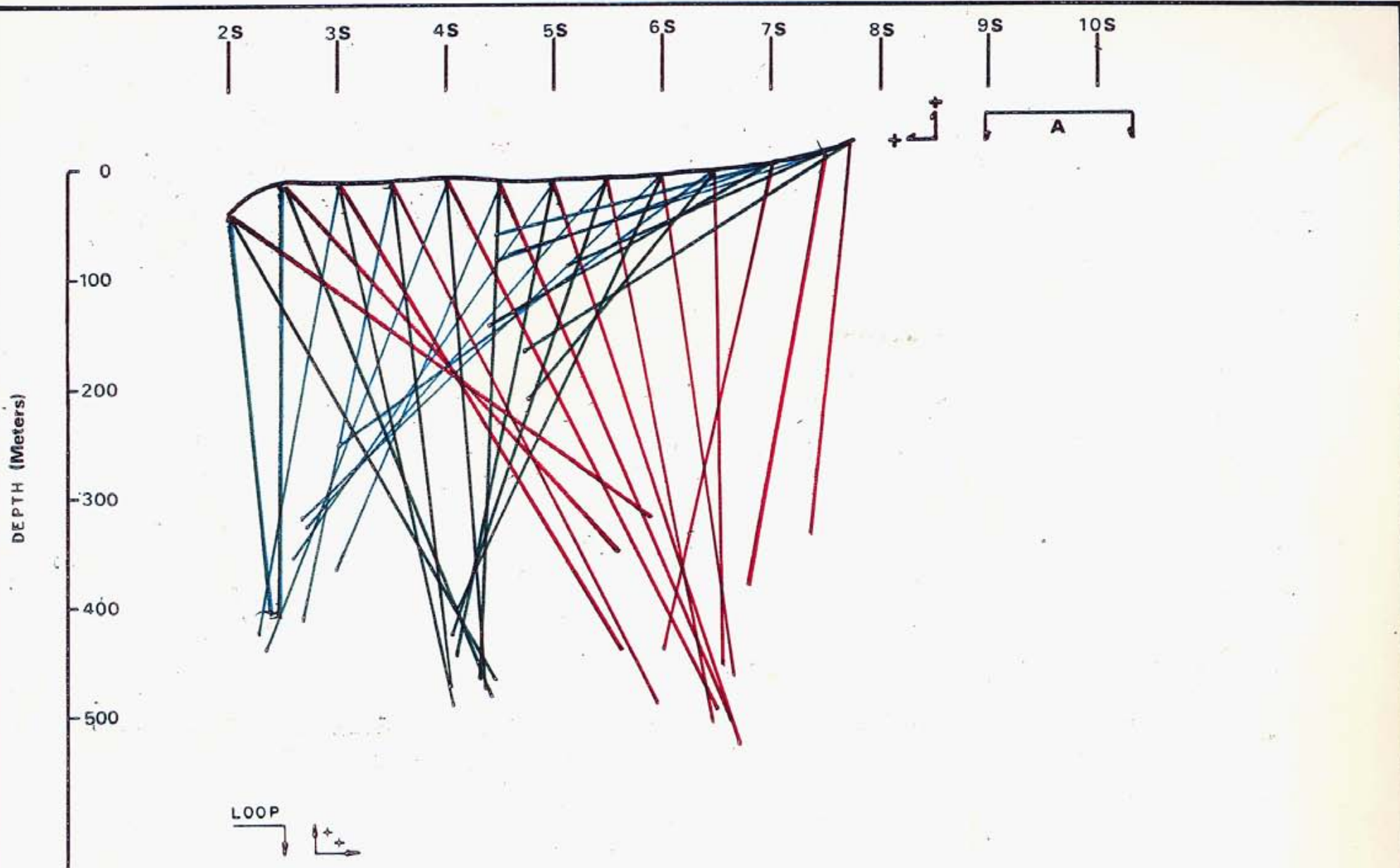
Thus, the vector foci likely represent secondary eddy current sources associated with the overburden and do not appear to be related to any anomalous conductive zone which could be interpreted as a prospective drill target.

Respectfully submitted,



Glen E. White, B.Sc., P. Eng.
Consulting Geophysicist

GW/kw



- CHANNEL 1
- CHANNEL 2
- CHANNEL 3
- CHANNEL 4

BETHLEHEM COPPER
WALHACHIN PROJECT
 PULSE ELECTROMAGNETOMETER
 - VECTOR SECTION -
 LINE 4

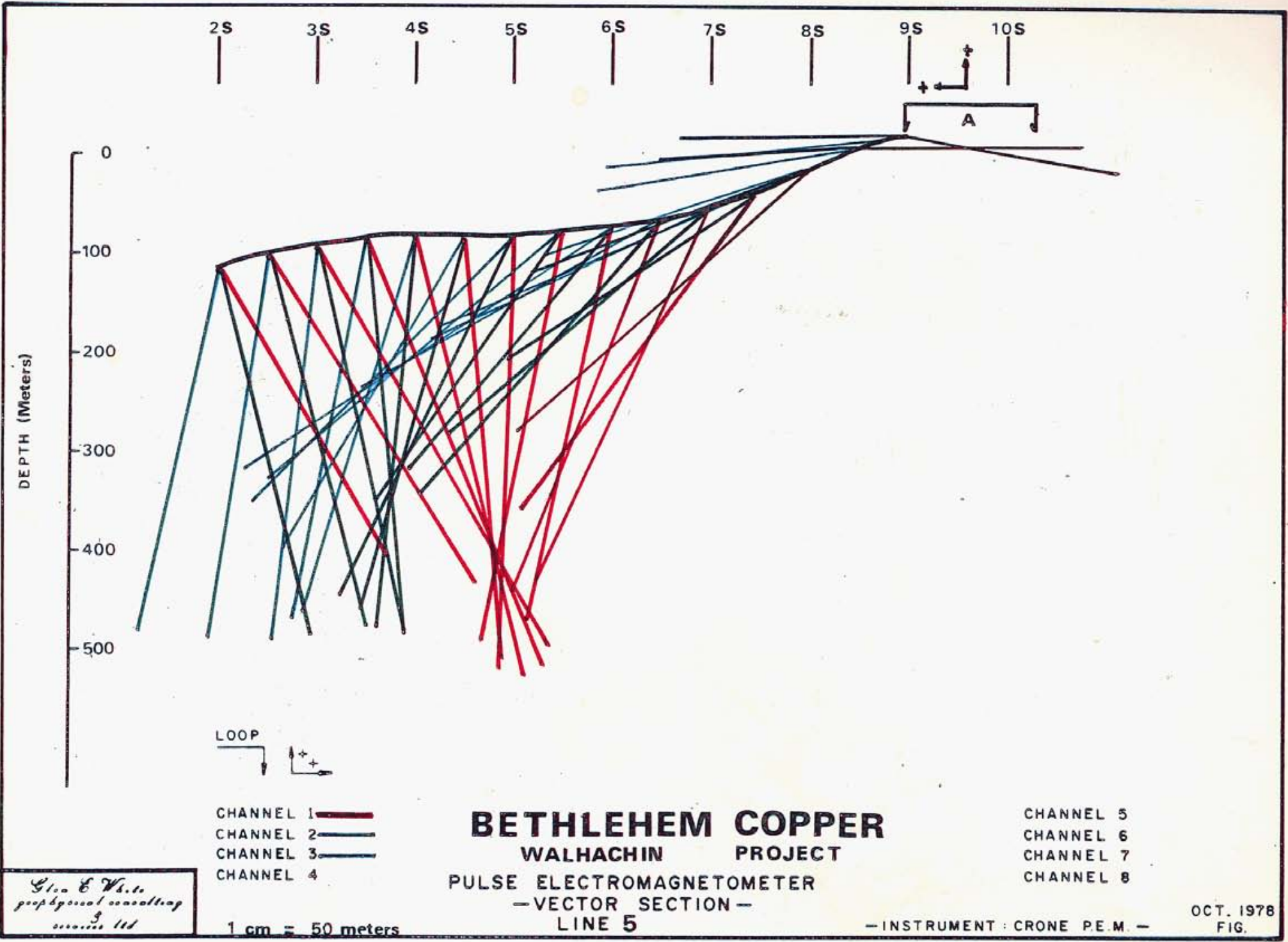
- CHANNEL 5
- CHANNEL 6
- CHANNEL 7
- CHANNEL 8

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 geophysical consulting
 111

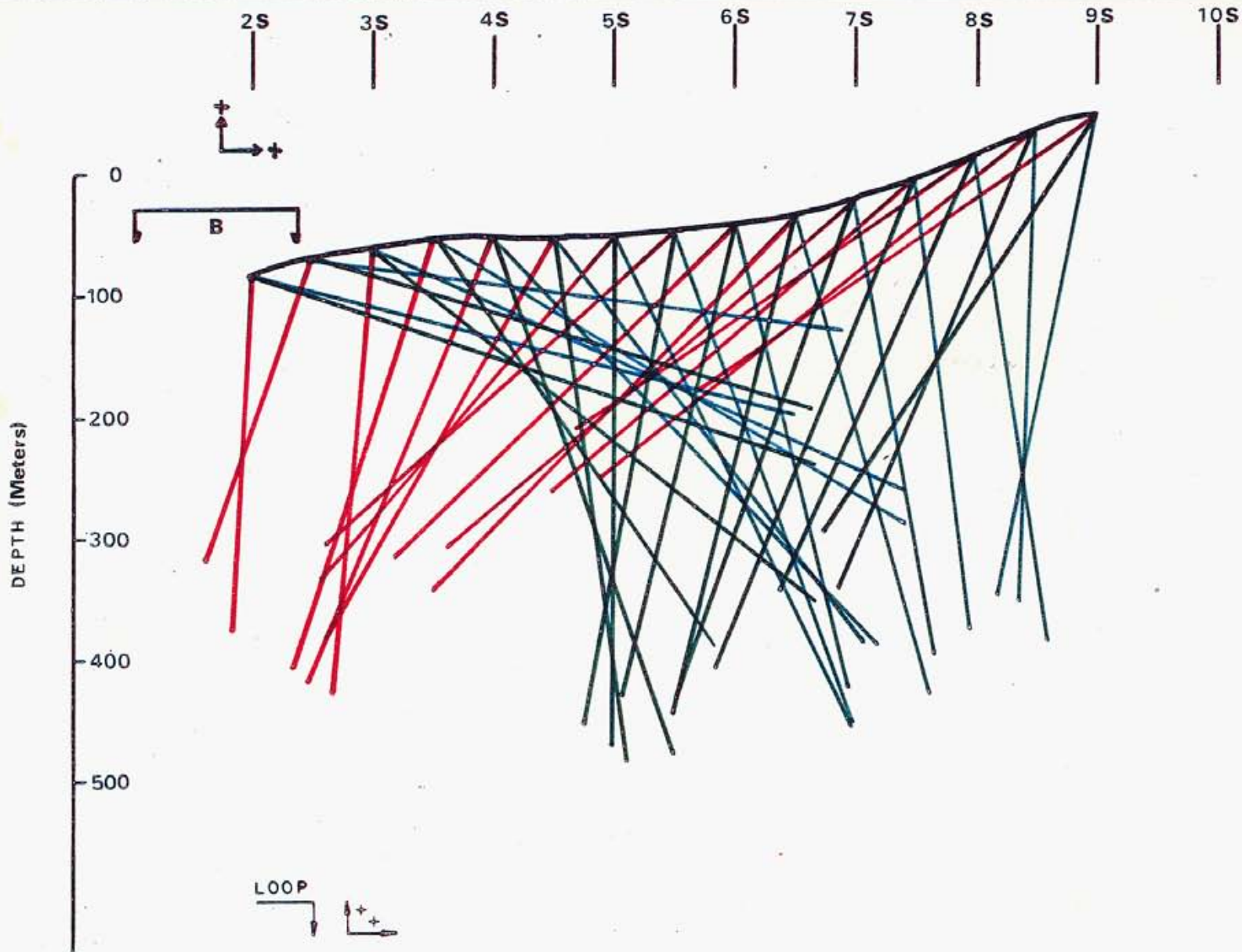
1 cm = 50 meters

- INSTRUMENT: CRONE P.E.M. -

OCT. 1978
 FIG.



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 3
 111



CHANNEL 1 ———
 CHANNEL 2 ———
 CHANNEL 3 ———
 CHANNEL 4 ———

BETHLEHEM COPPER
WALHACHIN PROJECT
 PULSE ELECTROMAGNETOMETER
 — VECTOR SECTION —
 LINE 5

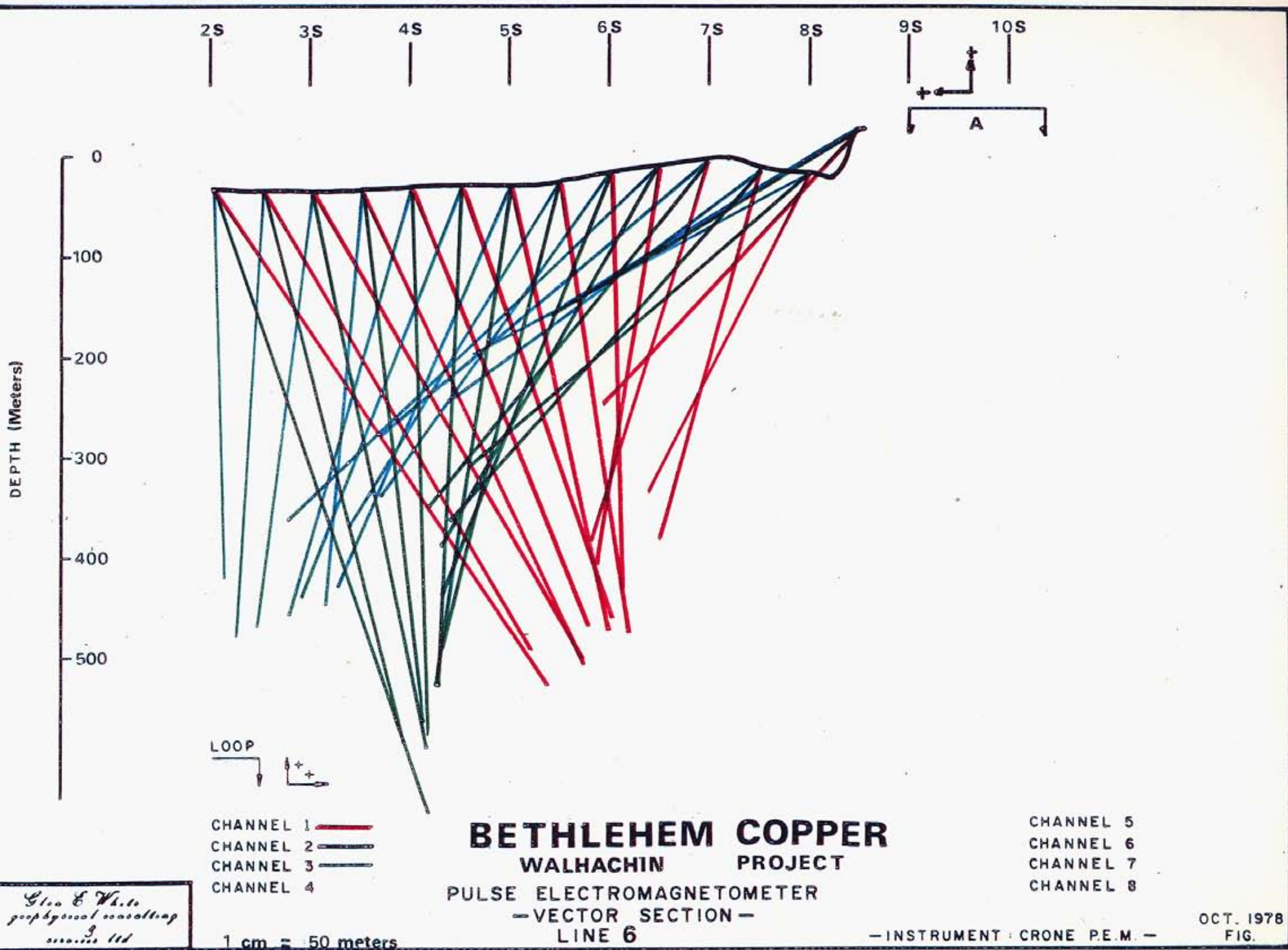
CHANNEL 5
 CHANNEL 6
 CHANNEL 7
 CHANNEL 8

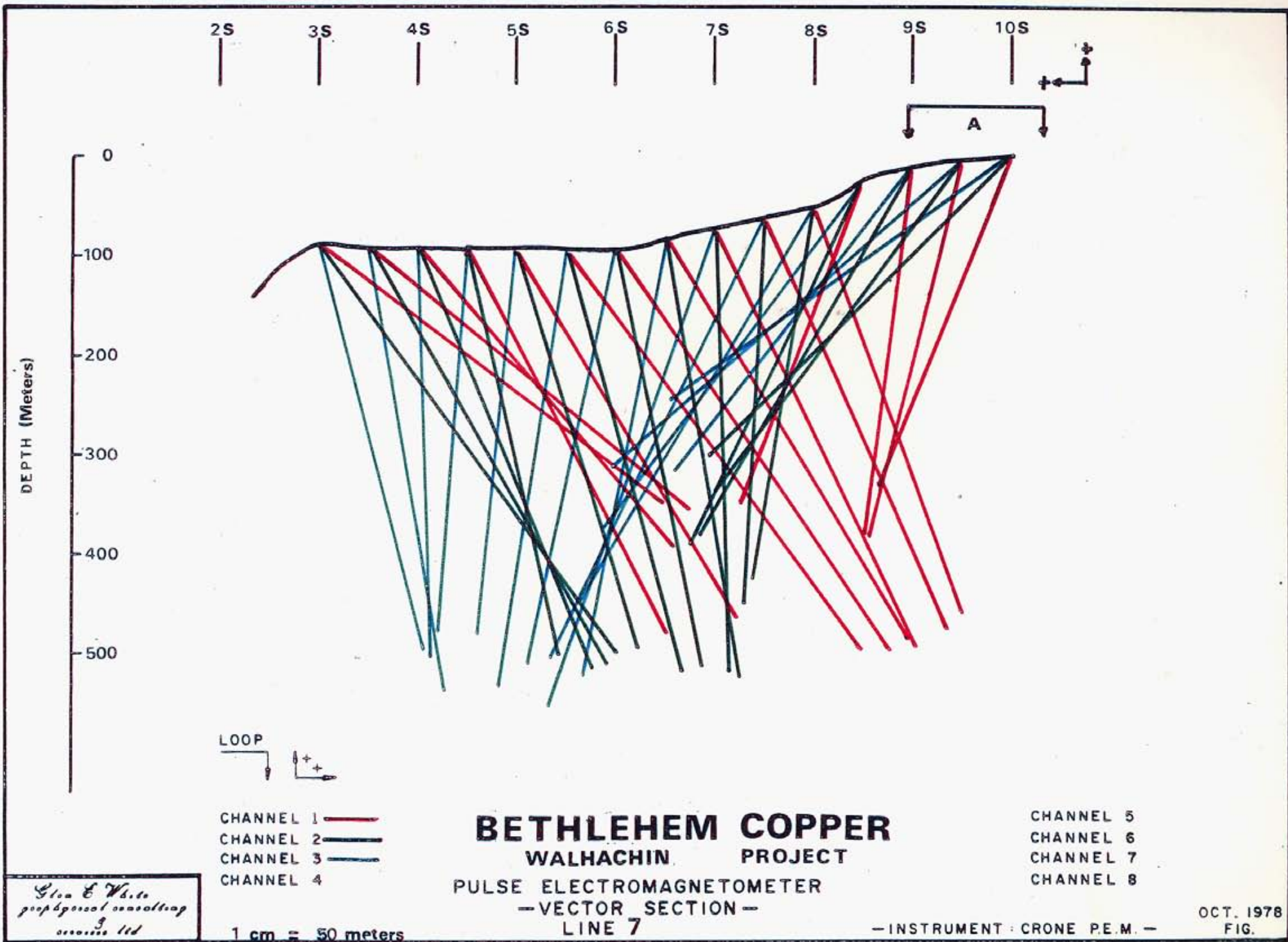
Glen & White
 geophysical consulting
 3
 114

1 cm = 50 meters

— INSTRUMENT: CRONE P.E.M. —

OCT. 1978
 FIG.

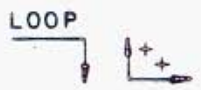




2S 3S 4S 5S 6S 7S 8S 9S 10S

A

DEPTH (Meters)
0
-100
-200
-300
-400
-500



CHANNEL 1 — (red line)
CHANNEL 2 — (black line)
CHANNEL 3 — (blue line)
CHANNEL 4 — (green line)

BETHLEHEM COPPER
WALHACHIN PROJECT
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 7

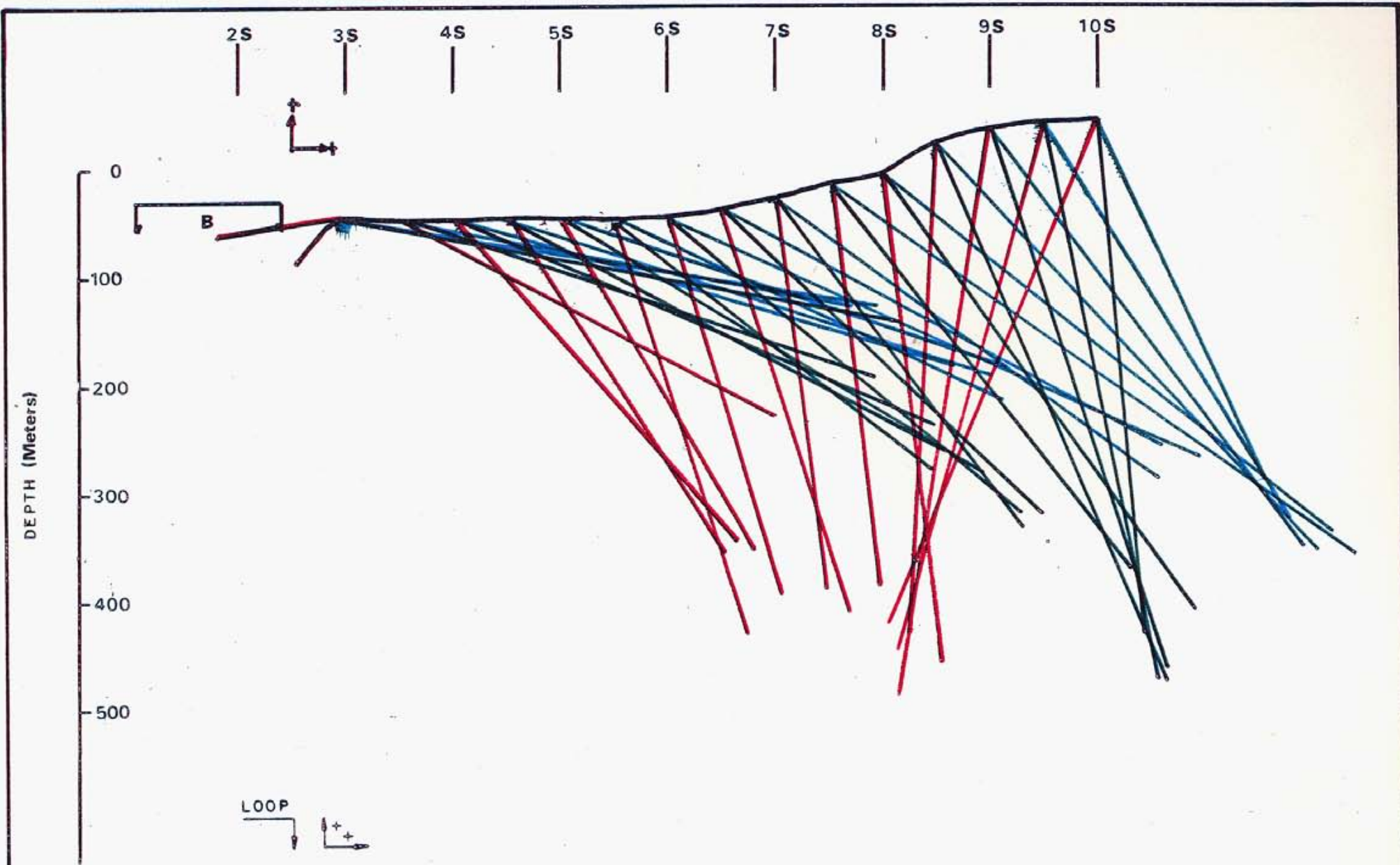
CHANNEL 5 — (red line)
CHANNEL 6 — (black line)
CHANNEL 7 — (blue line)
CHANNEL 8 — (green line)

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inc. Ill.

1 cm = 50 meters

— INSTRUMENT : CRONE P.E.M. —

OCT. 1978
FIG.



2S 3S 4S 5S 6S 7S 8S 9S 10S

DEPTH (Meters)
0
100
200
300
400
500

B



- CHANNEL 1
- CHANNEL 2
- CHANNEL 3
- CHANNEL 4

BETHLEHEM COPPER
WALHACHIN PROJECT
 PULSE ELECTROMAGNETOMETER
 - VECTOR SECTION -
 LINE 7

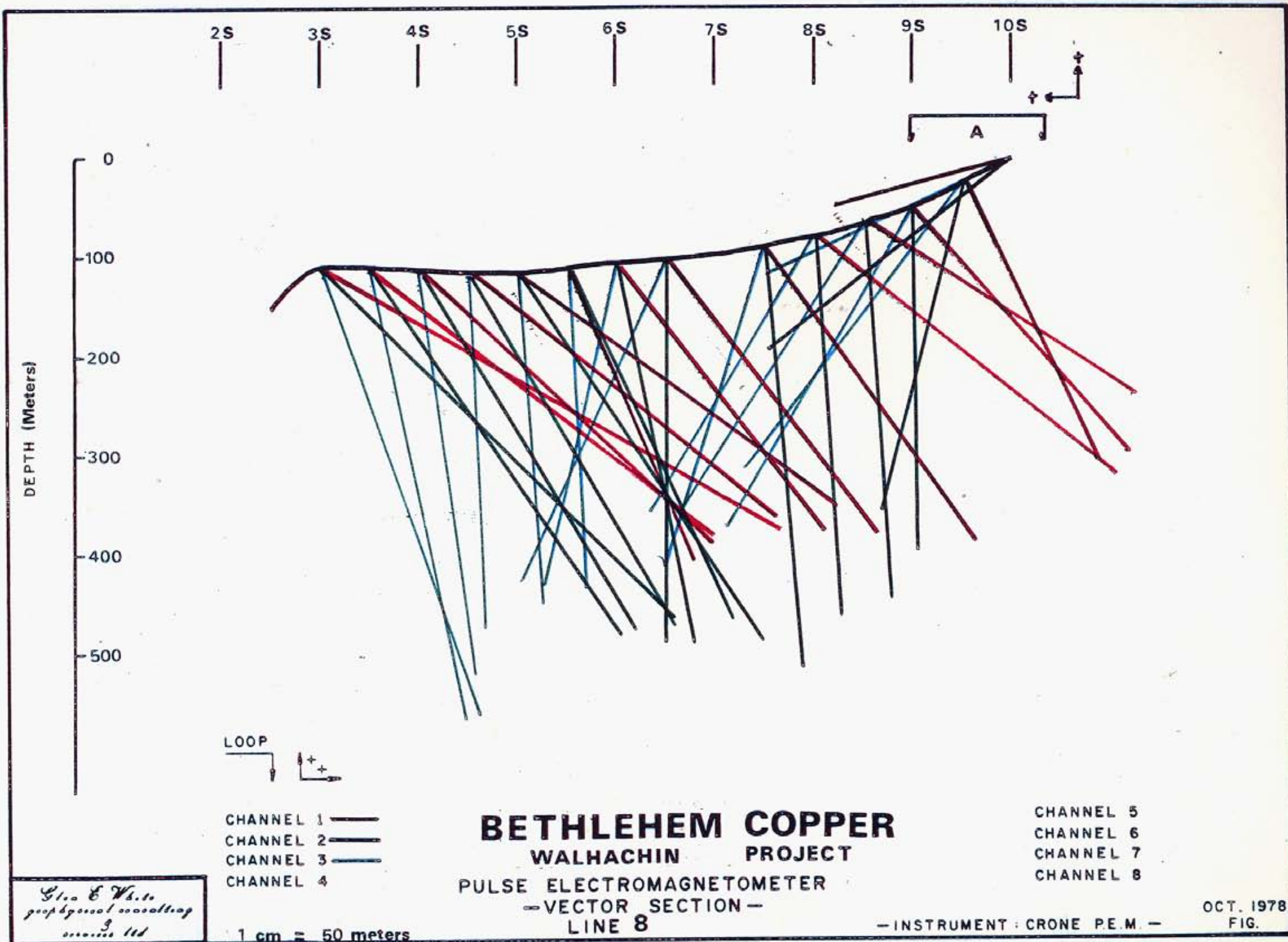
- CHANNEL 5
- CHANNEL 6
- CHANNEL 7
- CHANNEL 8

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 3000 1st

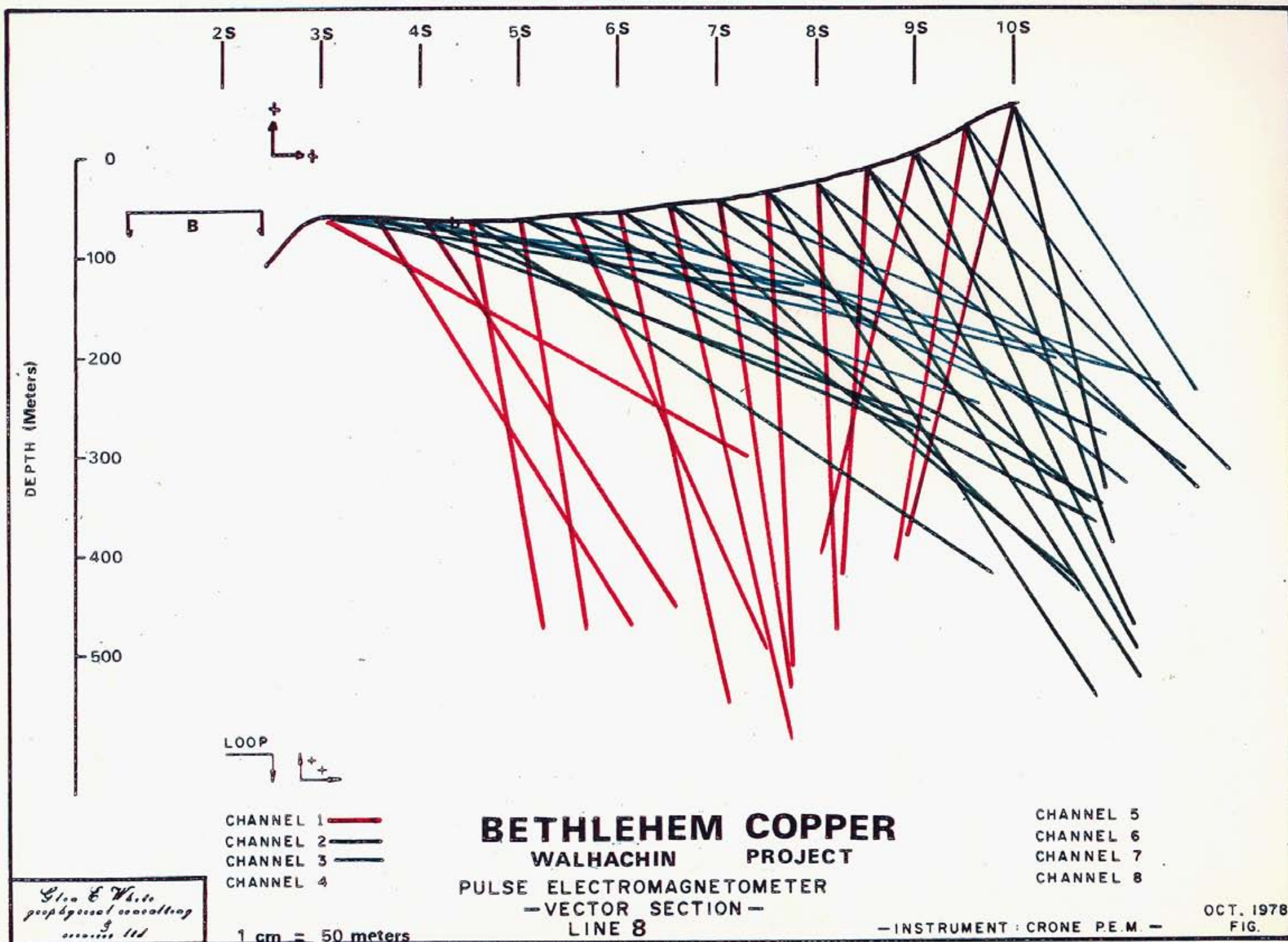
1 cm = 50 meters

- INSTRUMENT : CRONE P.E.M. -

OCT. 1978
 FIG.



*Geo & White
geophysical consulting
services ltd*



Glen & White
 geophysical consulting
 3000 11d

Assaying Services

Kamloops Research & Assay Laboratory LTD.

B.C. CERTIFIED ASSAYERS

EA ✓
HSE ✓
REA ✓

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784



R. G. Blundell
Res. 573-3016

Mr. Eric Anderson,
Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

Dear Eric:

Further to our telephone conversation, I am pleased to outline our procedure for the analysis of your soil samples for copper, lead, zinc and molybdenum.

The samples are dried in our geochemical drying oven and then screened through a stainless steel 80 mesh sieve. The minus 80 mesh fraction is reserved for analysis and the plus 80 mesh fraction is discarded.

The samples are then weighed into test tubes, nitric acid is added, and they are placed in a hot water bath for thirty minutes. Hydrochloric acid is added at this time and the samples are then diluted with an aluminium chloride solution. The aluminium chloride suppresses the nitrous oxide-acetylene flame interference in the analysis of molybdenum.

The samples are then mixed to insure homogeneity and are read, upon settling, on a Varian Techtron AA 5 atomic absorption spectrophotometer. An air-acetylene flame is used for the analysis of copper, lead and zinc, and a nitrous oxide-acetylene is used for the analysis of molybdenum.

All additions of reagents are from Oxford Model S-A pipettors.

Standards and re-assay checks are carried along with each run of 35 samples.

If you require greater detail I will be most happy to supply this information.

Yours very truly,

KAMLOOPS RESEARCH &
ASSAY LABORATORY LTD.

Derek A. Blundell

Derek A. Blundell,
Manager.

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

2095 WEST TRANS CANADA HIGHWAY - KAMLOOPS, B.C. V1S 1A7
PHONE 372-2784 - TELEX 048-8320

GEOCHEMICAL LAB REPORT

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

DATE September 15, 1978.

ANALYST D.A.B.

FILE NO. G-248

Attention: Mr. R. Netherly

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	Line 3 0 S	41	16	122	1				
	" 1 S	47	14	138	1				
	" 2 S	54	15	143	1				
	" 3 S	49	16	140	1				
	" 4 S	49	15	134	1				
	" 5 S	57	16	146	1				
	" 6 S	69	16	147	2				
	" 7 S ^{PCN}	163	18	182	3				
	Line 4 0 S	53	11	94	1				
	" 1 S	48	10	122	1				
	" 2 S	44	9	86	1				
	" 3 S	41	9	96	1				
	" 4 S	48	13	113	1				
	" 5 S	45	12	122	1				
	" 6 S	45	12	116	1				
	" 7 S	99	13	126	3				
	Line 5 1 S	67	11	107	2				
	" 2 S	56	8	92	1				
	" 4 S	47	9	93	1				
	" 5 S	76	10	113	2				
	" 7 S	83	10	108	2				
	" 8 S	111	17	185	3				
	Line 6 1 S	54	8	86	1				
	" 2 S	44	8	86	1				
	" 3 S	48	9	90	1				
	" 4 S	53	8	94	1				
	" 5 S	65	11	102	1				
	" 6 S	29	7	83	1				
	" 7 S	61	12	100	3				
30	Line 6 9 S	68	11	114	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-248

PAGE 2

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	Line 6 / 10 s	84	11	114	2				
	Line 7 / 1 s	49	9	140	1				
	" / 2 s	61	9	96	1				
	" / 3 s	95	8	90	1				
	" / 4 s	58	8	84	1				
	" / 5 s	60	8	84	1				
	" / 6 s	54	10	100	1				
	" / 7 s	46	9	80	2				
	" / 8 s	65	10	108	1				
	" / 9 s	72	9	75	3				
	" / 10 s	69	10	93	1				
	" / 11 s	82	10	106	1				
	Line 8 / 1 s	58	7	84	1				
	" / 3 s	86	8	90	1				
	" / 4 s	46	8	75	1				
	" / 5 s	47	10	76	1				
	" / 6 s	56	9	79	2				
	" / 7 s	35	6	81	1				
	" / 8 s	56	8	92	1				
	" / 9 s	91	10	110	2				
	Line 9 / 1 s	60	8	90	2				
	" / 2 s	80	7	87	1				
	" / 3 s	97	9	222	1				
	" / 4 s	94	16	1700	2				
	" / 5 s	56	11	135	1				
	" / 6 s	40	10	88	2				
	" / 7 s	35	7	80	1				
	" / 8 s	82	11	93	2				
	" / 9+10 s	51	9	106	2				
	" / 10 s	55	10	107	1				
	14377	133	36	545	3				
	14378	140	21	115	16				
	14379	76	23	100	3				
64	14380	73	18	78	7				

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

2095 WEST TRANS CANADA HIGHWAY - KAMLOOPS, B.C. V1S 1A7
PHONE 372-2784 - TELEX 048-8320

Guichon - Assays
(Wahachin)

SEP 25 1978

HGE ✓
REA ✓
EA ✓
RIN ✓

GEOCHEMICAL LAB REPORT

DATE September 20, 1978.

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C. V6E 2H8

ANALYST D.A.B.

Attention: Mr. R. Netherly

FILE NO. G-252

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	0259	55	14	86	4				
✓	0260	600	29	230	8				
✓	0261	47	13	79	2				
✓	0262	71	7	160	12				
✓	0263	60	10	117	16				
✓	0264	131	27	188	3				
✓	0265	57	10	112	6				
✓	0266	18	28	246	3				
✓	0267	109	18	246	11				
✓	0268	75	20	228	4				
✓	0269	34	12	95	1				
✓	0270	34	10	245	1				
✓	0271	16	9	71	2				
✓	0272	23	10	42	1				
✓	0273	16	5	50	1				
✓	0274	24	2	70	2				
✓	0275	20	47	68	4				
✓	0276	55	9	43	3				
✓	0277	310	18	136	5				
✓	0278	73	19	103	3				
✓	0279	24	8	63	1				
✓	0280	63	16	88	4				
✓	0281	134	17	107	4				
✓	0282	147	38	125	37				
✓	0283	14	10	62	2				
✓	0284	106	10	70	2				
✓	0285	119	23	79	2				
✓	0286	15	21	62	1				
✓	0287	17	18	50	1				
30	0288	53	40	56	2				



SEP 13 1978 *RJN ✓*

GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

GUICHON Assays (Waltham)

CERTIFICATE OF ASSAY

HGE ✓ KEAV ✓ BH ✓

TO:
BETHLEHEM COPPER CORPORATION
 2100 - 1055 West Hastings Street
 Vancouver, B.C.

Attn: Mr. Ron Nethery

No.: 7808-3051A DATE: Sept. 12/78

We hereby certify that the following are the results of assays on: **Ore**

MARKED	GOLD	SILVER	Copper	Lead	Zinc	Molybdenum	xxx	xxx
	xxx/xxx/xxx/xxx	xxx/xxx/xxx/xxx	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)		
1055 - B			25	39	113	7.2		
1056			86	14	122	10.2		
1057			25	149	318	5.3		
1058			35	29	277	2.6		
1059			18	29	158	3.0		
1060			12	14	78	4.2		
1061			15	14	90	2.3		
1062			13	28	84	2.6		
1063			15	25	88	1.1		
1064			14	19	88	1.1		
1065			25	20	119	1.2		
1066			52	33	119	1.7		
1067			108	14	52	1.2		
1068			108	16	81	1.5		
1069			34	14	56	1.5		
1070			31	11	199	1.5		
1071			2630	33	6500	1.6		
1072			261	38	604	2.3		
1073			113	28	509	23		
1074			68	30	554	1.9		
1075 - B			54	12	116	3.4		

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

R. Nadeau
R. NADEAU, Chemist

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association
 REFEREE AND/OR OFFICIAL CHEMISTS FOR: National Institute Of Oilseed Products • The American Oil Chemists' Society
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

SECTION E - STATEMENT OF QUALIFICATIONS

RONALD J. NETHERY, P.ENG.

1. Attended the University of British Columbia from 1963 to 1967 and graduated with a B.Sc., Majors Geology.
2. Registered in good standing with the Association of Professional Engineers of British Columbia since February 7, 1973.
3. Geologist with Johns Manville Company from April to September, 1967 carrying out field exploration in Alaska.
4. Commenced employment with Bethlehem Copper Corporation in September 1967 and was continuously employed by this firm until mid-May 1979 and involved in the following activities:-
 - (a) 1967 to 1970 - engaged at the Highland Valley Operations as a Mine and Exploration Geologist involved in large scale drilling projects, including the Lake Zone porphyry deposit.
 - (b) 1970 to 1972 - engaged as a Project Geologist attached to the Copper Belt Joint Venture, a large scale regional exploration program conducted in South-Central British Columbia.
 - (c) 1972 to 1974 - carried out general geological examinations of mineral properties in Canada and the Western United States.
 - (d) 1974 to 1976 - involved as a Project Geologist attached to the Copper Belt (Washington) Joint Venture, a regional exploration program in North-Central Washington State.
 - (e) 1977 to May 1979 - Project Geologist in charge of the Guichon Joint Venture, a regional program being carried out in the general Highland Valley area of South-Central British Columbia.

STATEMENT OF QUALIFICATIONS

RONALD GRAHAM SIMPSON

1. Attended the University of British Columbia and graduated in May 1975 with a B.Sc. degree in Geology.
2. Employed by the Geological Survey of Canada in their Vancouver office from May 1975 to April 1976.
3. Commenced employment with Bethlehem Copper Corporation in April 1976 and has been continuously employed by this firm and involved in the following activities:-
 - (a) Summer 1976 - Exploration geologist attached to the Bear-Twit Project, a diamond drilling venture in the Mackenzie Mountains of the Northwest Territories.
 - (b) Fall 1976 - Project Geologist on a percussion drilling program in West-central B.C.
 - (c) Winter-Spring 1977 - Project Geologist on a diamond drilling program at Bethlehem's Highland Valley copper mine.
 - (d) Summer 1977 - Project Geologist in charge of the Plateau Joint Venture, a large scale regional program in the Taseko Lakes area of south-central B.C.
 - (e) Fall 1977 - Project Geologist in charge of a percussion drilling program in the Nadina Lake area of West-central B.C.
 - (f) Summer 1978 - In charge of the second phase of the Plateau Project (see (d)).
 - (g) Sept. 1978 to May 1979 - Project Geologist on a diamond drilling program at Bethlehem's Highland Valley operations.
 - (h) May 1979 to Oct. 1979 - Project Geologist in charge of the Guichon Project, a regional program in the general Highland Valley area.

BETHLEHEM COPPER CORPORATION

MINERAL CLAIMS

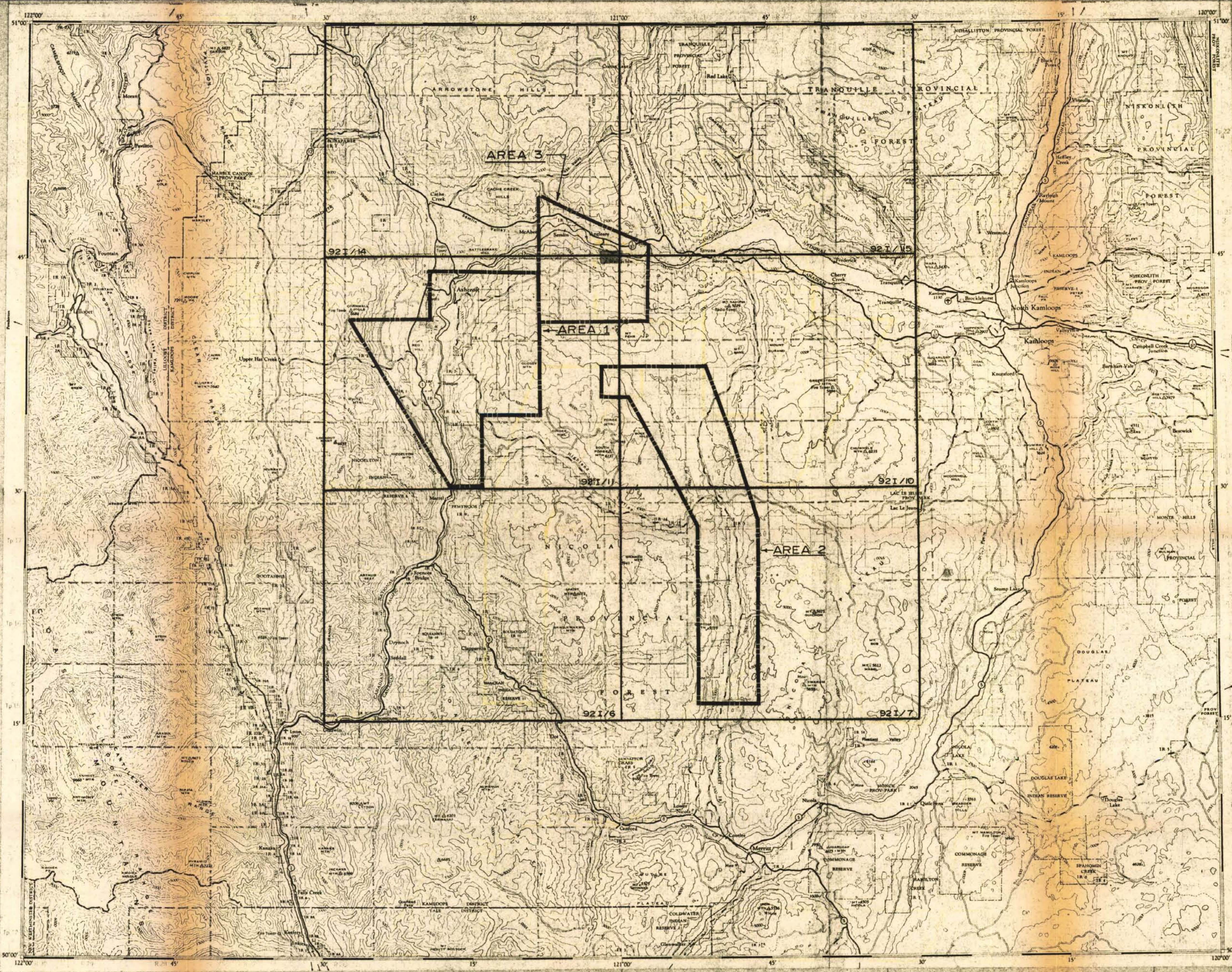
Property: GUICHON
- WALHACHIN

Mining Division: Kamloops

<u>Name of Claim</u>	<u>Record Number</u>	<u>Metal Tag Number</u>	<u>Date Recorded</u>	<u>Expiry Date</u>
WAL (15 units)	1407(9)	06824	Sept.25,1978	Sept. 25,1980

SECTION G - ILLUSTRATIONS

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>
W-78-1	General Location Plan	1:250,000
W-78-2	Location Plan	1: 50,000
W-78-3	Topography - Sheet 1	1: 10,000
W-78-4	Topography - Sheet 2	1: 10,000
W-78-5	Topography - Sheet 3	1: 10,000
W-78-6	Geological Plan - Sheet 1	1: 10,000
W-78-7	Geological Plan - Sheet 2	1: 10,000
W-78-8	Geological Plan - Sheet 3	1: 10,000
W-78-9	Geochemical Plan - Cu - Sheet 1	1: 10,000
W-78-10	Geochemical Plan - Pb - Sheet 1	1: 10,000
W-78-11	Geochemical Plan - Zn - Sheet 1	1: 10,000
W-78-12	Geochemical Plan - Mo - Sheet 1	1: 10,000
W-78-13	Geochemical Plan - (Cu,Pb,Zn,Mo)-Sheet 2	1:10,000
W-78-14	Geochemical Plan - (Cu,Pb,Zn,Mo)-Sheet 3	1:10,000
W-78-15	1978 Geophysical Survey Plan	1:10,000
W-78-16	Proposed Percussion Drilling	1:10,000

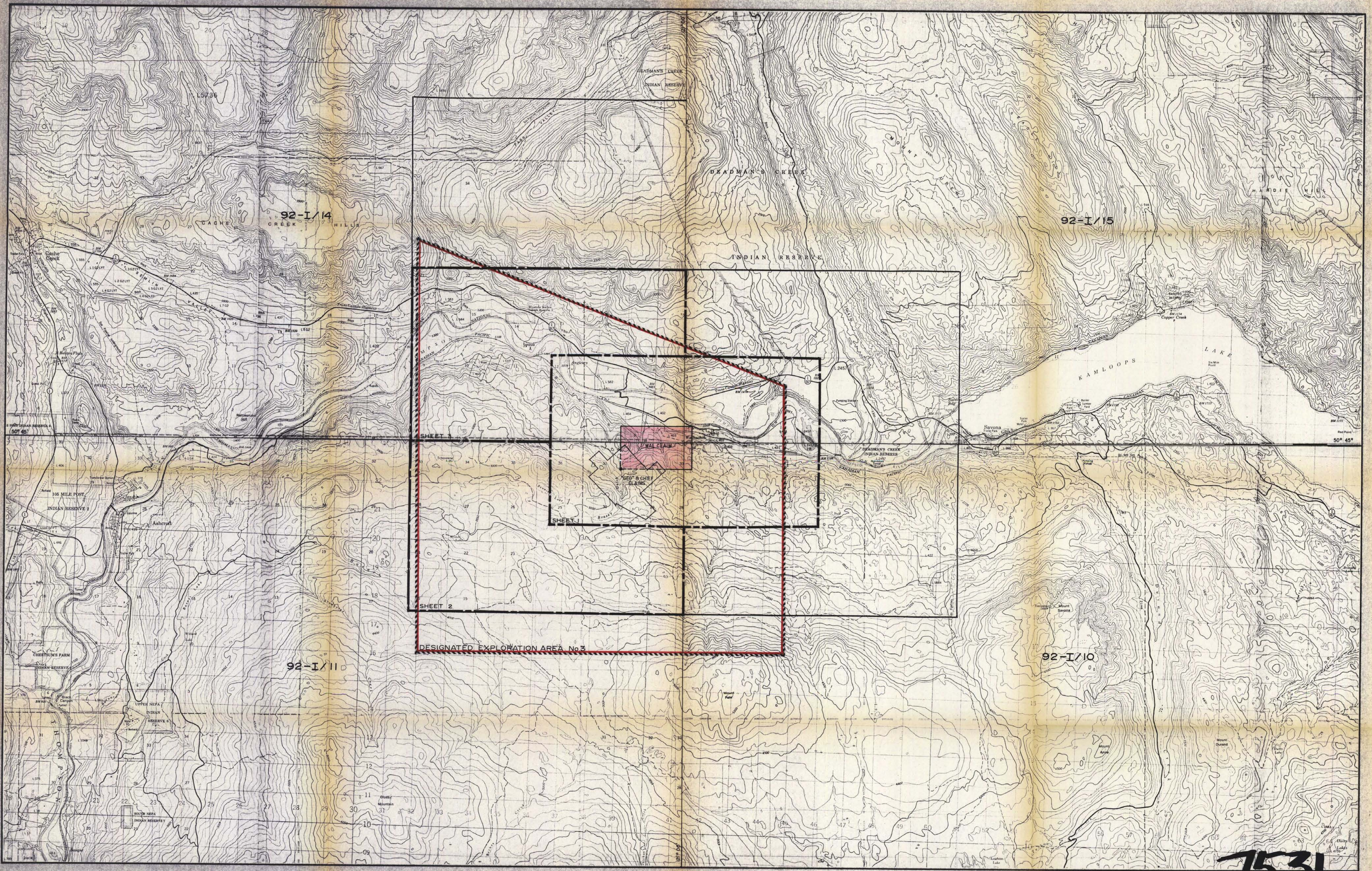


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7531
NO.

DATE REVISED	BY	DEPT. - EXPLORATION
		DRAWN BY -
		CHECKED - E. A.
		APPROVED -
		DATE - JAN. / 1977
		SCALE - 1:250,000 or 1"=4mi. approx.



TITLE - GUICHON PROJECT AREA 3-WALHACHIN GENERAL LOCATION PLAN	
FILE NUMBER - N.T.S. 92 I	DRAWING NUMBER - W-78-1



7531

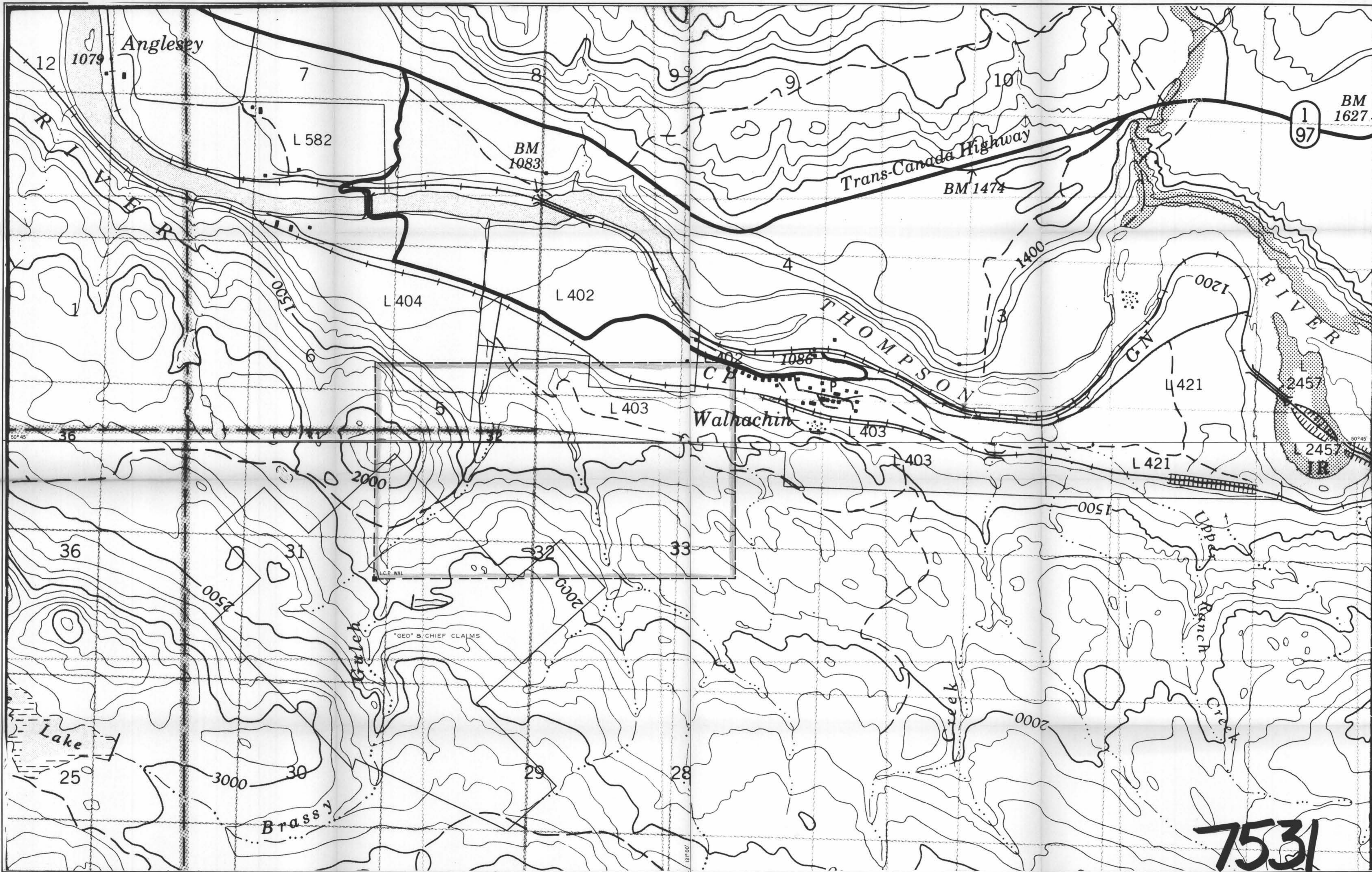


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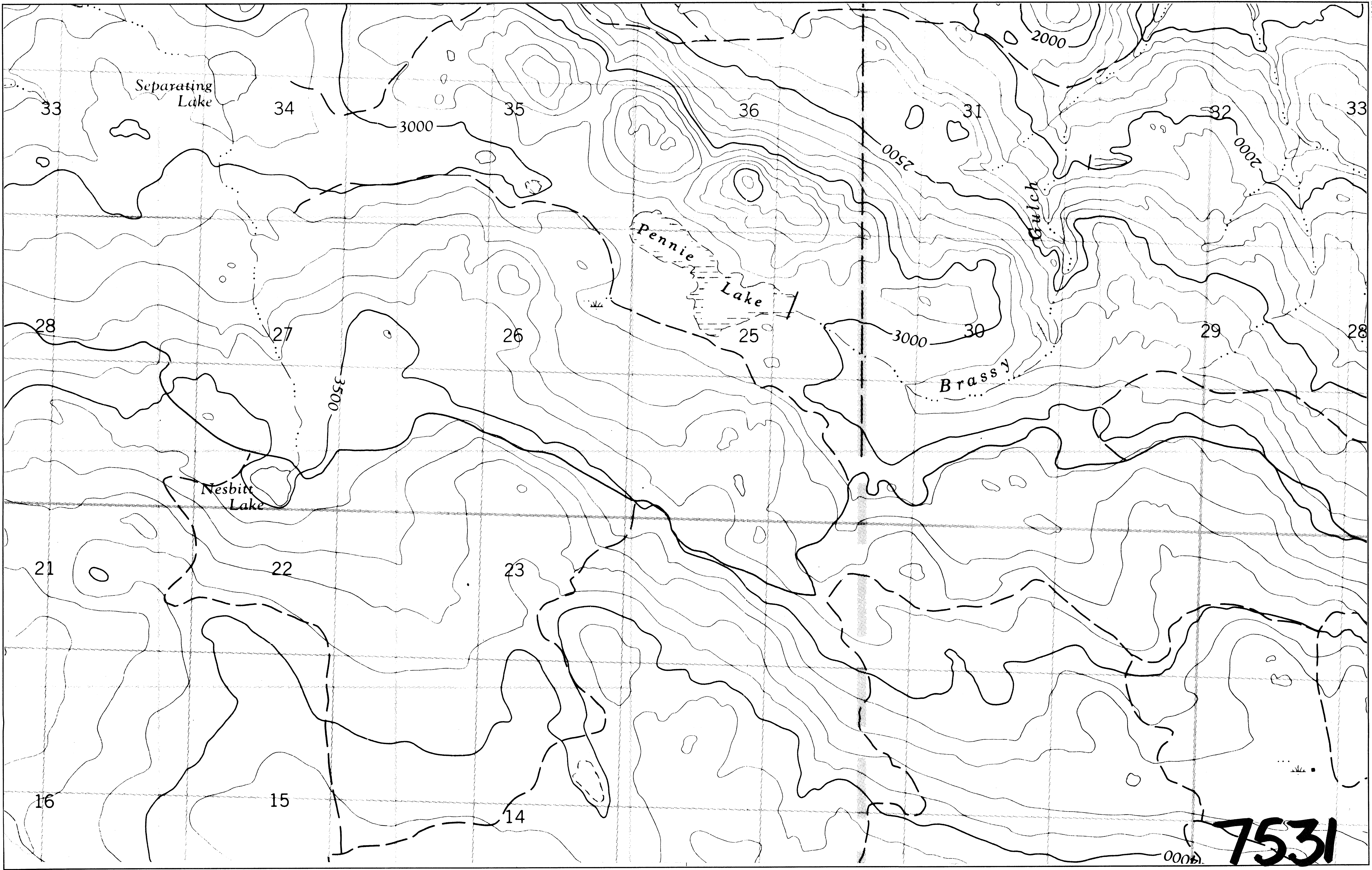
B BETHLEHEM
COPPER
CORPORATION

GUICHON PROJECT
AREA 3 - WALCHACHIN
LOCATION PLAN

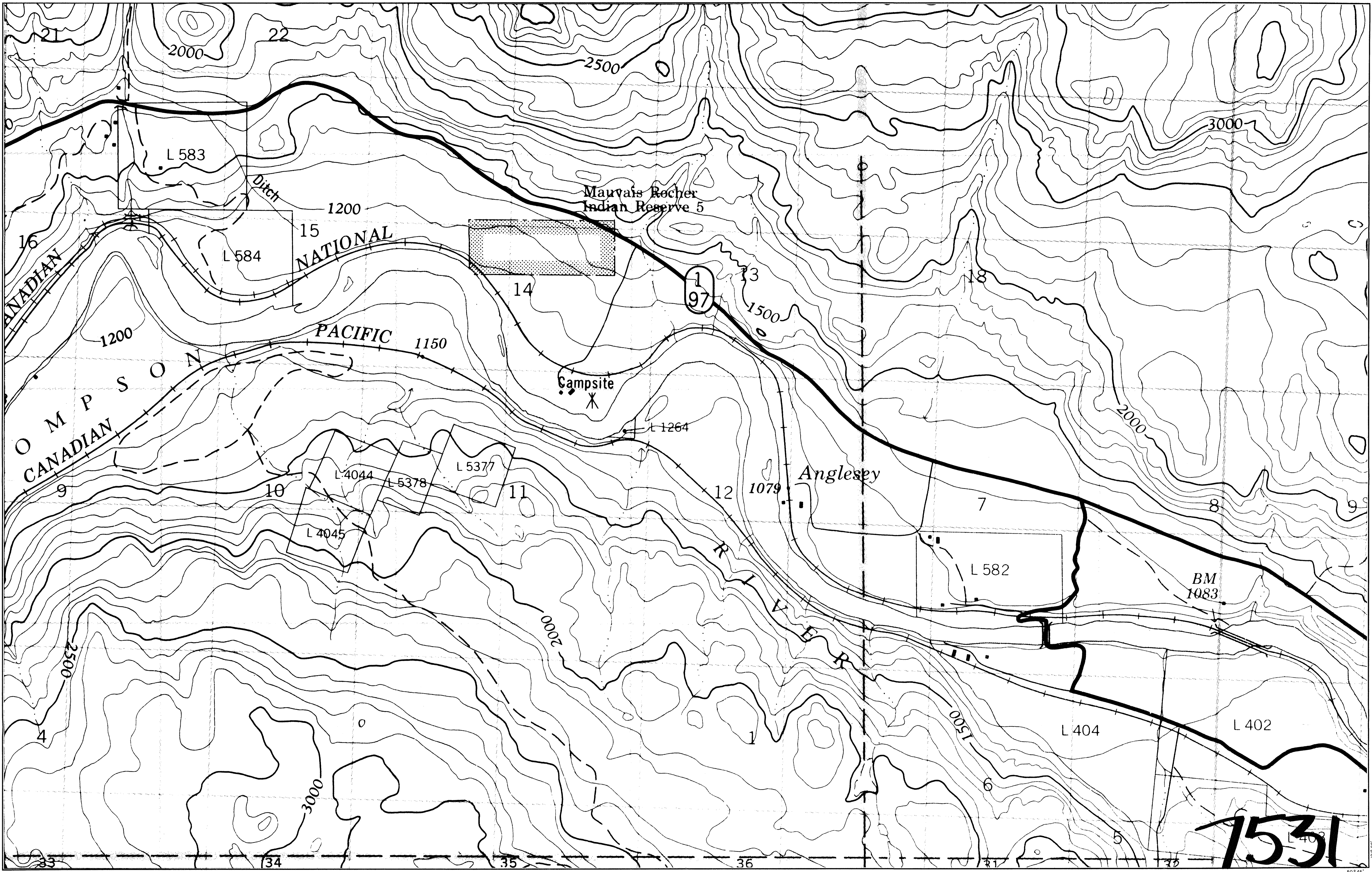
DATE	DRAWN BY	CHECKED	APPROVED	OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE	DRAWING NUMBER
DEC. 1978		E.A.		VANCOUVER	EXPLORATION	NTS-92-I/10,11,14,15	1:50,000	W-78-2



<p>NTS SHEET INDEX</p>	<p>MAP SCALE</p> <p>SCALE IN METRES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> </tbody> </table>	No.	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>DRAWN BY</th> <th>CHECKED</th> <th>APPROVED</th> <th>OFFICE</th> <th>DEPARTMENT</th> <th>MAP INDEX NUMBER</th> <th>SCALE</th> <th>DRAWING NUMBER</th> </tr> </thead> <tbody> <tr> <td>SEPT. 1978</td> <td></td> <td>E. A.</td> <td></td> <td>VANCOUVER</td> <td>EXPLORATION</td> <td>NTS 92-1/10,11,14,15</td> <td>1:10,000</td> <td>W-78-3</td> </tr> </tbody> </table>	DATE	DRAWN BY	CHECKED	APPROVED	OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE	DRAWING NUMBER	SEPT. 1978		E. A.		VANCOUVER	EXPLORATION	NTS 92-1/10,11,14,15	1:10,000	W-78-3	<p>B BETHLEHEM COPPER CORPORATION</p> <p>GUICHON PROJECT AREA 3 - WALHACHIN (SHEET 1) TOPOGRAPHY</p>
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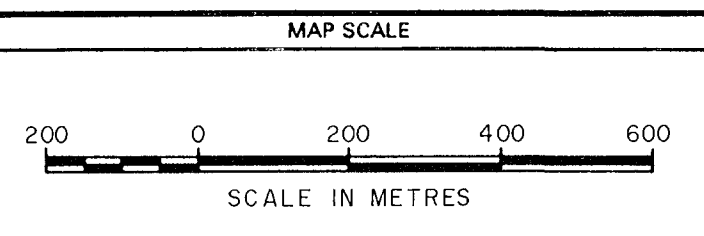
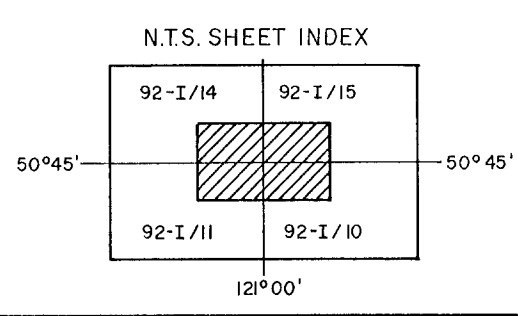


	<p>MAP SCALE</p> <p>SCALE IN METRES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 10%;">Date</th> <th style="width: 15%;">MADE BY</th> <th style="width: 70%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> </tbody> </table>	No.	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<p>BETHLEHEM COPPER CORPORATION</p>	<p>GUICHON PROJECT AREA 3 - WALTHACHIN (SHEET 3) TOPOGRAPHY</p>
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7531

TERTIARY		CRETACEOUS	
	Volcanics & Conglomerate		Quartz porphyry
CRETACEOUS or TERTIARY		CRETACEOUS or TERTIARY	
	Conglomerate		Intermediate intrusive, diorite to quartz diorite
UPPER TRIASSIC		UPPER TRIASSIC	
	Nicola Group		Outcrop
	Metavolcanics & lesser metasediments		Geological contact



No.	Date	MADE BY	DESCRIPTION
1	Sept/79	mk	Geology corrections
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DATE	DRAWN BY	CHECKED	APPROVED
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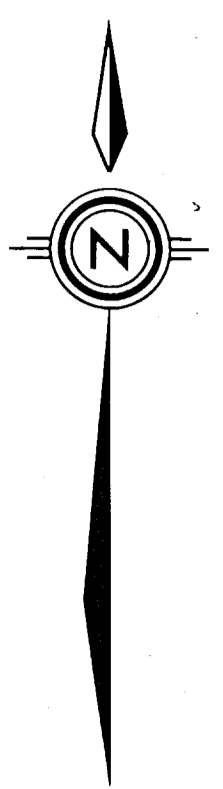
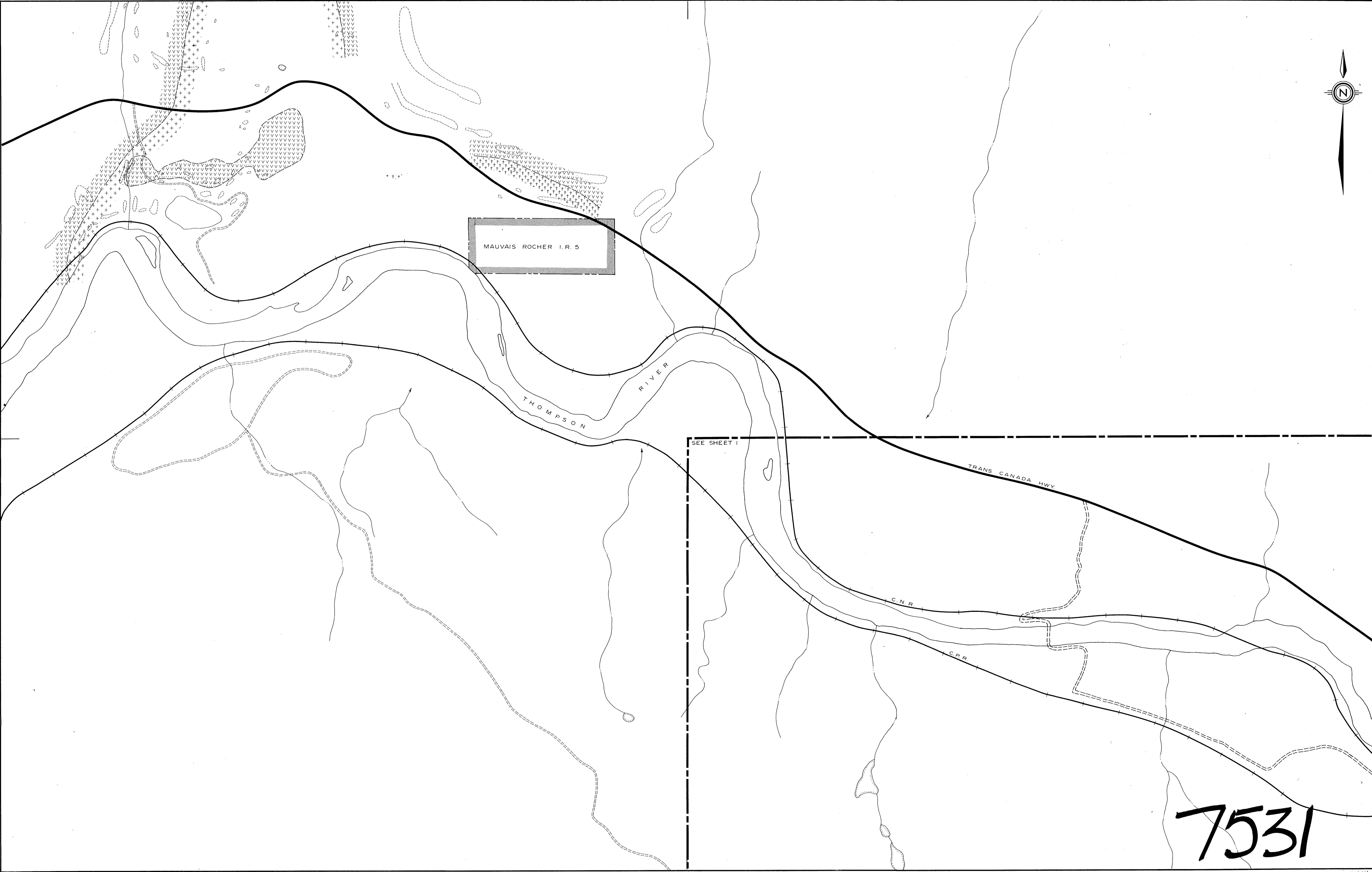
B BETHLEHEM
COPPER
CORPORATION

GUCHON PROJECT AREA 3 - WALHACHIN (SHEET 1) GEOLOGICAL PLAN			
MAP INDEX NUMBER	SCALE	DRAWING NUMBER	
NTS 92-1/10, 11, 14, 15	1:10,000	W-78-6	



7531

<p>TERTIARY</p> <p>Volcanics & Conglomerate</p> <p>CRETACEOUS or TERTIARY</p> <p>Conglomerate</p> <p>UPPER TRIASSIC</p> <p>Nisite Group</p> <p>Metavolcanics & lesser metasediments</p>	<p>CRETACEOUS</p> <p>Quartz porphyry</p> <p>Intermediate intrusive, diorite to quartz diorite</p> <p>Outcrop</p> <p>Geological contact</p>		<p>MAP SCALE</p> <p>SCALE IN METRES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>No</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> </table>	No	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<p>BETHLEHEM COPPER CORPORATION</p>	<p>GUICHON PROJECT AREA 3 - WALHACHIN (SHEET 2) GEOLOGICAL PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>DRAWN BY</th> <th>CHECKED</th> <th>APPROVED</th> <th>OFFICE</th> <th>DEPARTMENT</th> <th>MAP INDEX NUMBER</th> <th>SCALE</th> <th>DRAWING NUMBER</th> </tr> <tr> <td>DEC. 1978</td> <td>Altair/m.k.</td> <td>E.A.</td> <td></td> <td>VANCOUVER</td> <td>EXPLORATION</td> <td>NTS. 92-Z / II</td> <td>1:10,000</td> <td>W-78-7</td> </tr> </table>	DATE	DRAWN BY	CHECKED	APPROVED	OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE	DRAWING NUMBER	DEC. 1978	Altair/m.k.	E.A.		VANCOUVER	EXPLORATION	NTS. 92-Z / II	1:10,000	W-78-7
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MAUVAIS ROCHER I.R. 5

THOMPSON RIVER

TRANS CANADA HWY

C.N.R.

C.P.R.

SEE SHEET 1

7531

50°45'

<p>TERTIARY</p> <p>▼▼▼ Kamloops Group ▼▼▼ Basalt, andesite, rhyolite</p> <p>TRIASSIC</p> <p>■ ■ ■ Nicola Group ■ ■ ■ Metavolcanics & metasediments</p> <p>LOWER CRETACEOUS</p> <p>■ ■ ■ Intermediate intrusives</p>	<p>○ Outcrop</p> <p>--- Geological contact</p>		<p>MAP SCALE</p> <p>200 0 200 400 600</p> <p>SCALE IN METRES</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> </tbody> </table>	No.	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<p>B BETHLEHEM COPPER CORPORATION</p>	<p>GUICHON PROJECT AREA 3 - WALHACHIN (SHEET 3) GEOLOGICAL PLAN</p>
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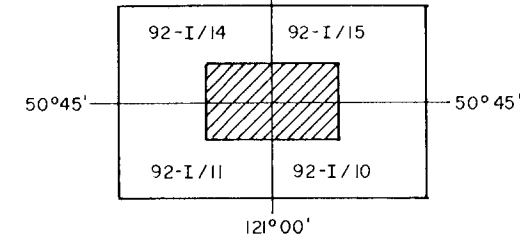


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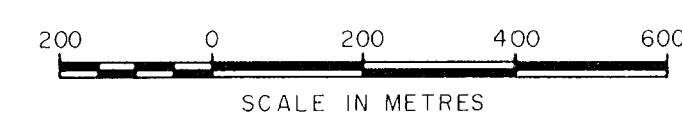
LEGEND

- x Rock Sample
- Soil Sample

NTS SHEET INDEX



MAP SCALE



REVISEMENTS	No.	Date	MADE BY	DESCRIPTION	APPROVED	
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	3					
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B BETHLEHEM
COPPER
CORPORATION

GUICHON PROJECT
AREA 3 - WALHACHIN
(SHEET 1)
GEOCHEMICAL PLAN - Cu

DATE	DRAWN BY	CHECKED	APPROVED	OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE	DRAWING NUMBER
NOV. 1978	Altair/mk	E. A.		VANCOUVER	EXPLORATION	NTS 92-1/10,11,14,15	1:10,000	W-78-9



<p>LEGEND</p> <p>x Rock Sample</p> <p>• Soil Sample</p>	<p>N.T.S. SHEET INDEX</p>	<p>MAP SCALE</p> <p>SCALE IN METRES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">REV. NO.</th> <th rowspan="2">DATE</th> <th rowspan="2">MADE BY</th> <th rowspan="2">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV. NO.	DATE	MADE BY	DESCRIPTION																					<div style="text-align: center;"> <p>BETHLEHEM COPPER CORPORATION</p> </div>	<p style="text-align: center;">GUICHON PROJECT AREA 3 - WALHACHIN (SHEET 1)</p> <p style="text-align: center;">GEOCHEMICAL PLAN - Pb</p>
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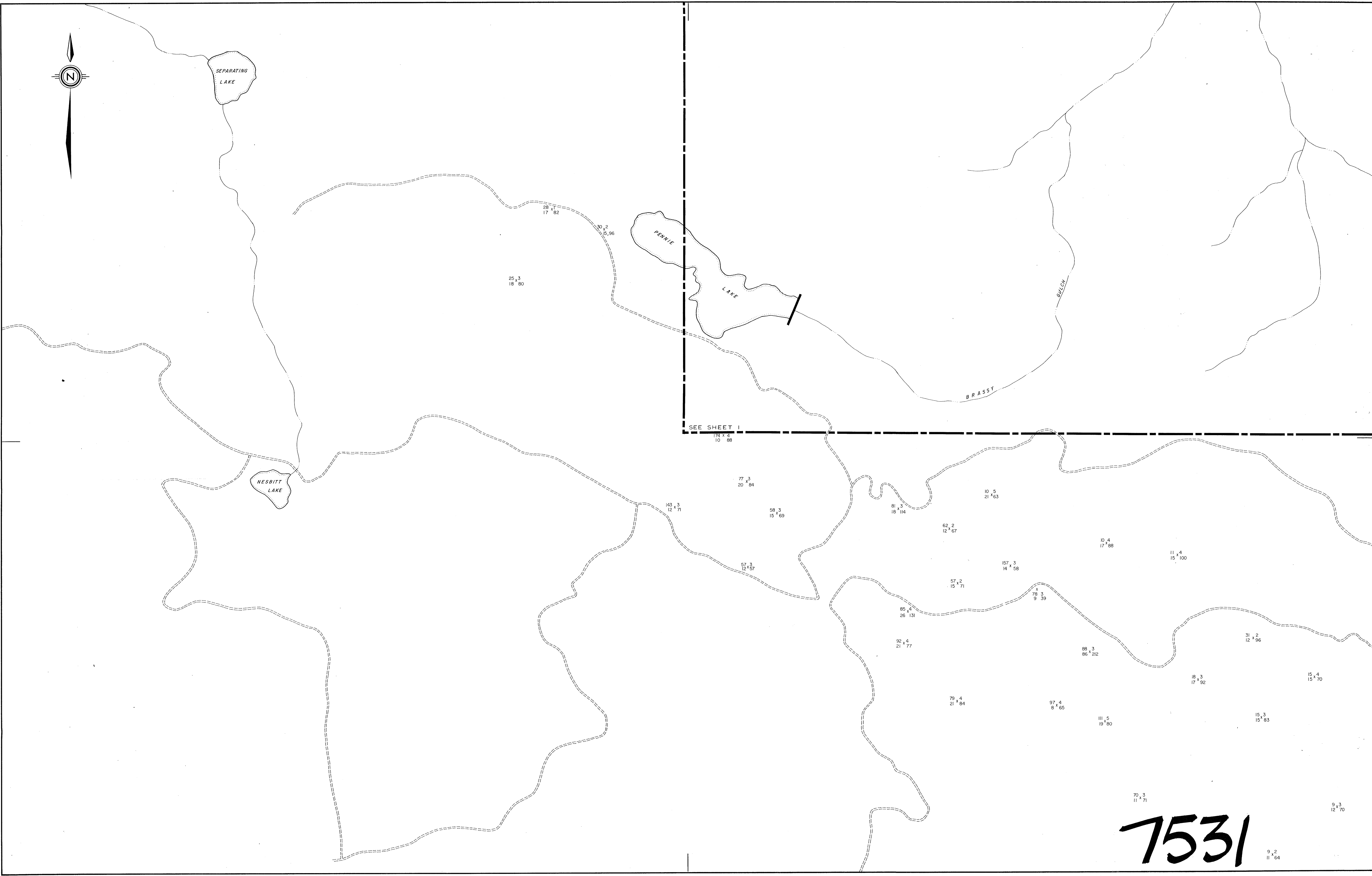


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<p>LEGEND</p> <ul style="list-style-type: none"> x Rock Sample • Soil Sample 		<p>NTS. SHEET INDEX</p>		<p>MAP SCALE</p> <p>SCALE IN METRES</p>		<table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Date	MADE BY	DESCRIPTION													<p>BETHLEHEM COPPER CORPORATION</p>		<p>GUICHON PROJECT AREA 3 - WALHACHIN (SHEET 1) GEOCHEMICAL PLAN - Zn</p>	
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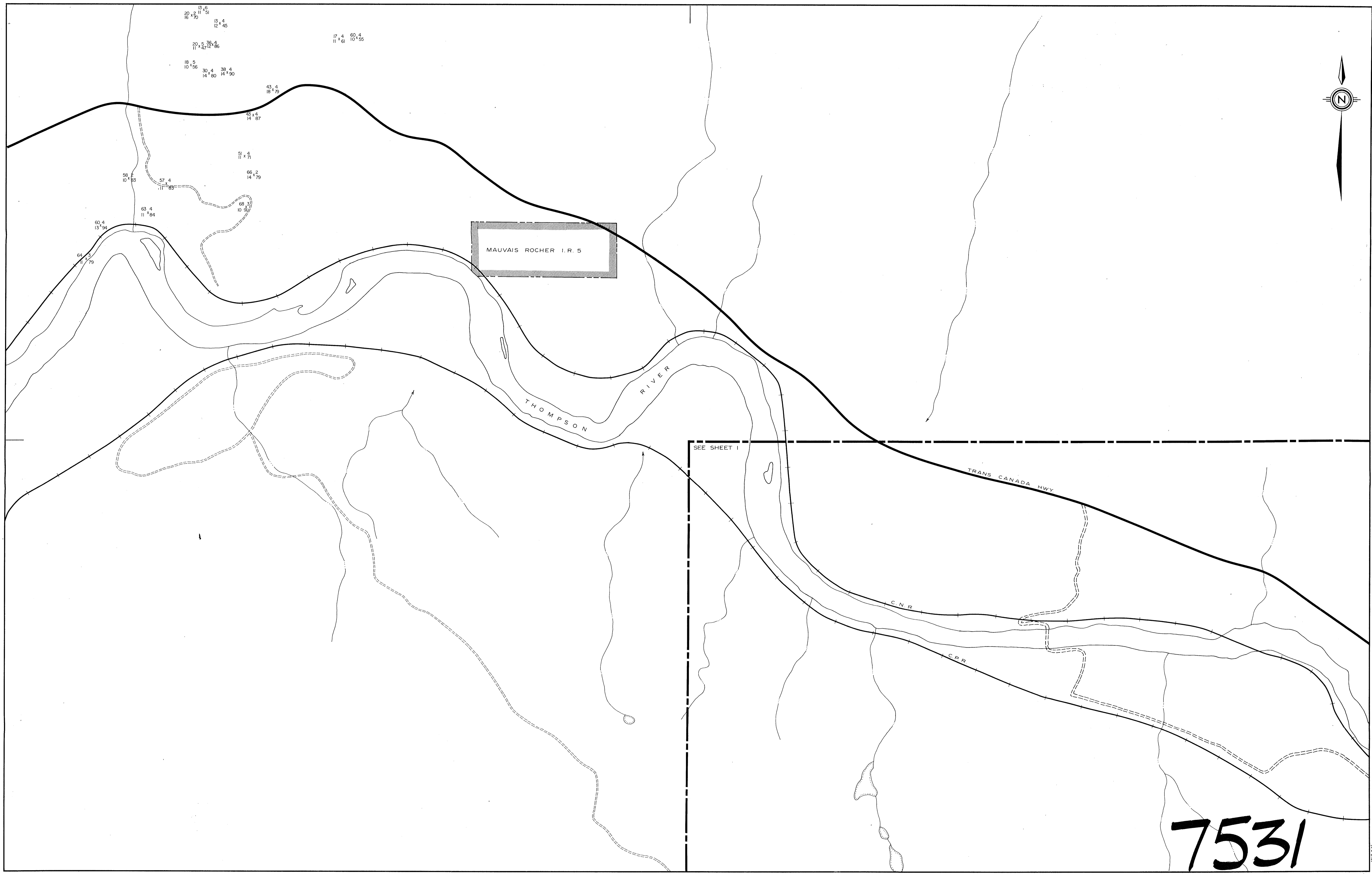


<p>LEGEND</p> <p>x Rock Sample</p> <p>• Soil Sample</p>		<p>N.T.S. SHEET INDEX</p>		<p>MAP SCALE</p> <p>SCALE IN METRES</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">REVISONS</th> <th rowspan="2">No.</th> <th rowspan="2">Date</th> <th rowspan="2">MADE BY</th> <th rowspan="2">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISONS	No.	Date	MADE BY	DESCRIPTION																									
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<p>LEGEND</p> <p>Cu-ppm Mo-ppm — Rock Sample Location</p> <p>Pb-ppm Zn-ppm</p>				<p>MAP SCALE</p> <p>200 0 200 400 600</p> <p>SCALE IN METRES</p>		<table border="1"> <tr> <th>No.</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> </table>		No.	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<p>BETHLEHEM COPPER CORPORATION</p>		<p>GUICHON PROJECT AREA 3 - WALHACHIN (SHEET 2) GEOCHEMICAL PLAN (Cu, Pb, Zn, Mo)</p>	
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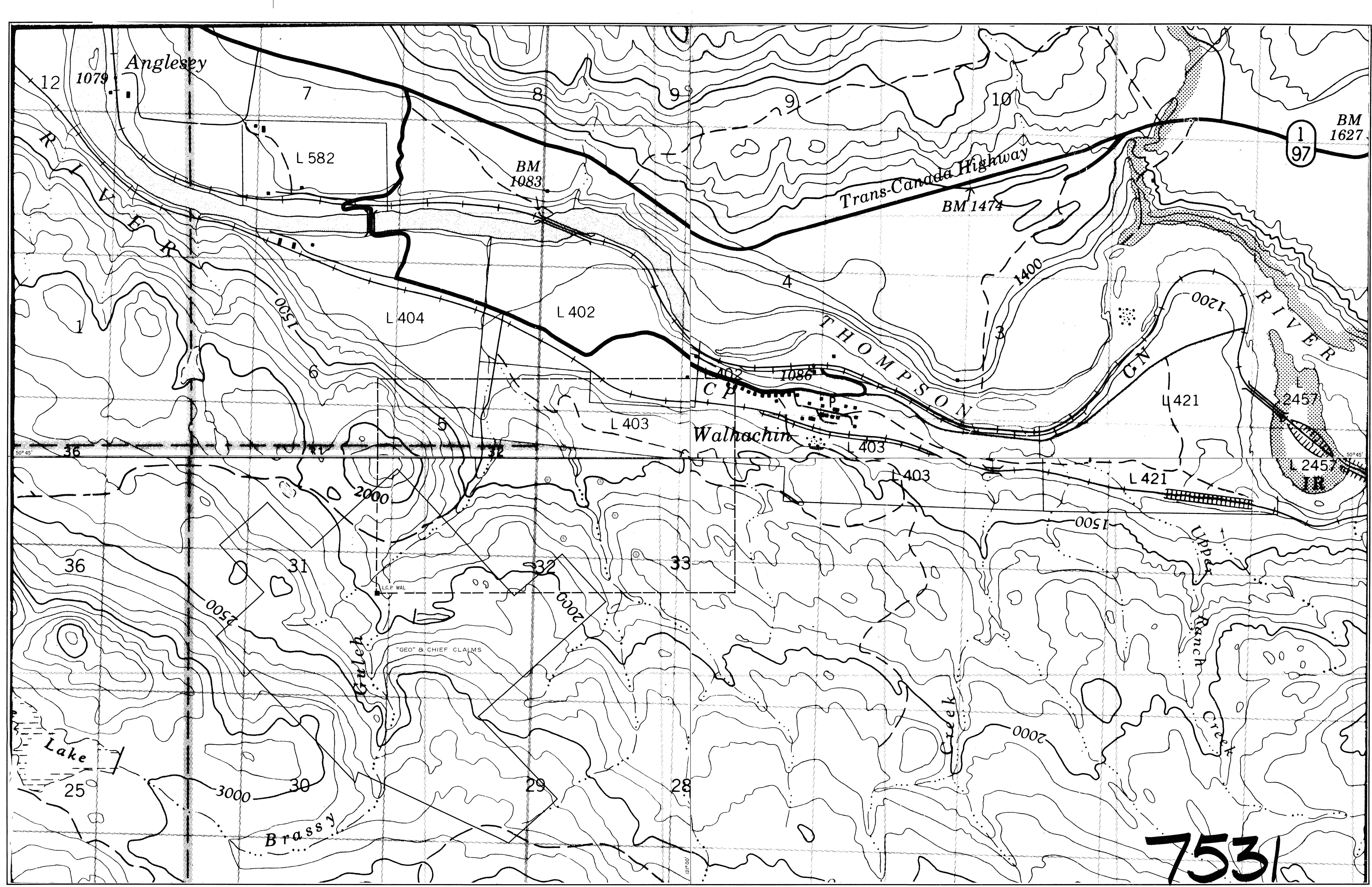
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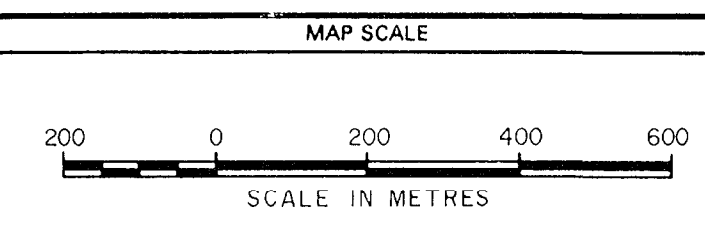
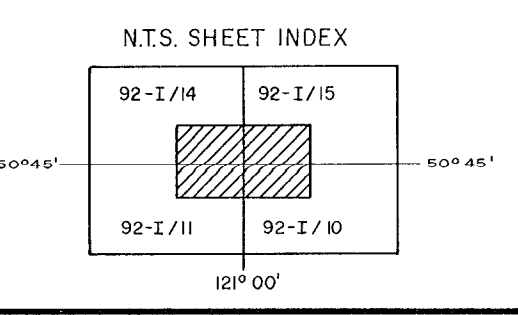


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LEGEND
 ○ PROPOSED PERCUSSION DRILL HOLE



NO.	DATE	MADE BY	DESCRIPTION
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DATE	DRAWN BY	CHECKED	APPROVED
SEPT. 1978		E. A.	

B BETHLEHEM
 COPPER
 CORPORATION

GUICHON PROJECT
 AREA 3-WALHACHIN
 (SHEET 1)
 PROPOSED PERCUSSION DRILLING

OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE	DRAWING NUMBER
VANCOUVER	EXPLORATION	NTS. 92-1/10,11,14,15	1:10,000	W-78-16