

'81-#88-# 8882

GEOCHEMICAL AND GEOPHYSICAL REPORT

ON THE

STAR 1,2,3,11,13 MINERAL CLAIMS.

ATLIN MINING DIVISION

LAT. 58°13'; LONG. 131°43'; NTS.104/J/4

WORK COMPLETED: SEPT.10 to DEC. 5 1980.

CLAIM OWNER UNITED CAMBRIDGE MINES LTD.

CLAIM OPERATOR UNITED CAMBRIDGE MINES LTD.

GEOCHEMICAL REPORT

by

T.E.LISLE, P.ENG.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

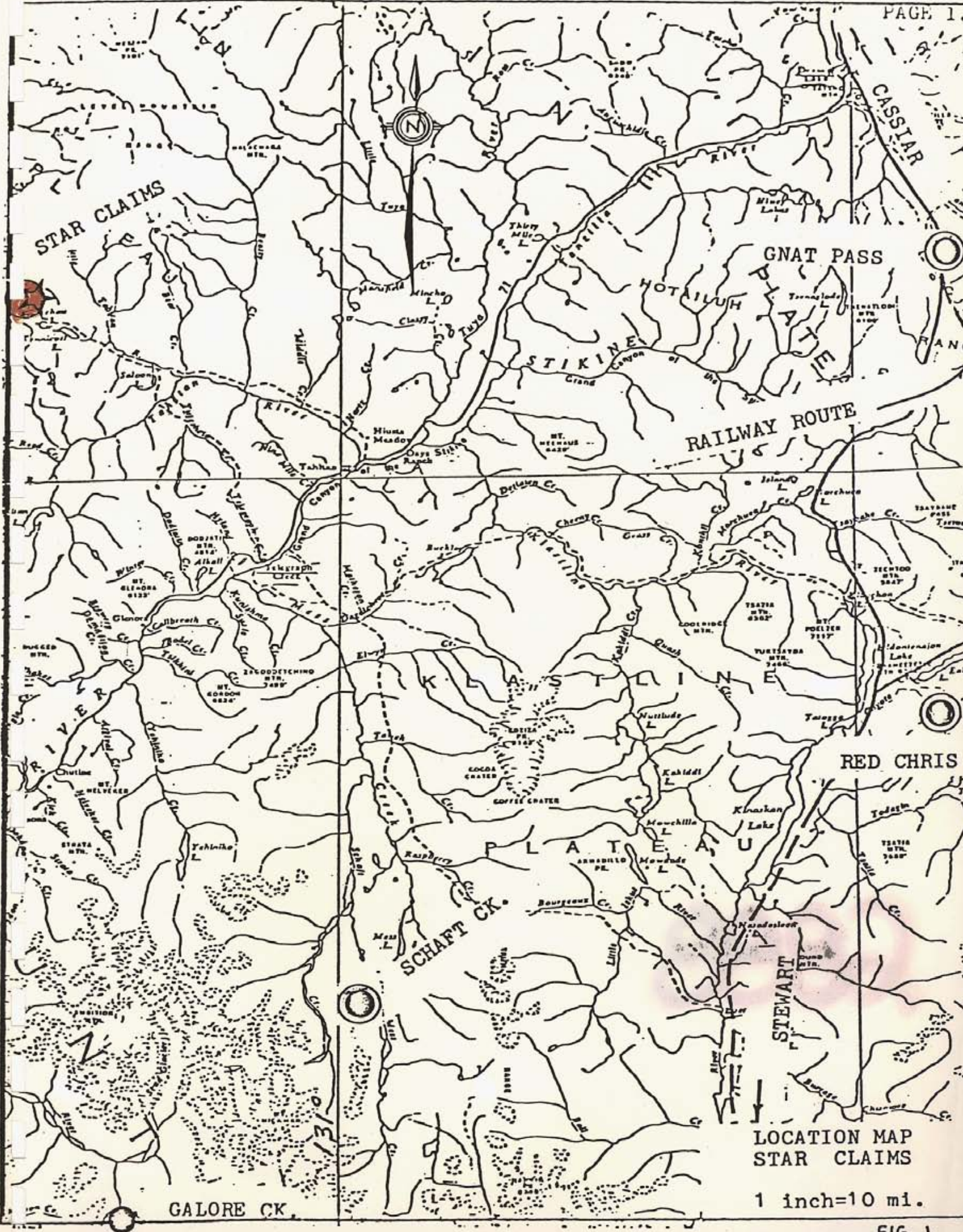
8882

GEOPHYSICAL REPORT

by

P.E.WALCOTT, P.ENG.

JANUARY 6, 1981



STAR CLAIMS

CASIAR

GNAT PASS

STIKINE
Grand Canyon

HOTAILUH

RAILWAY ROUTE

KLAMATH
PLATEAU

RED CHRIS

SCHAFT CK.

STEWART

GALORE CK.

LOCATION MAP
STAR CLAIMS

1 inch = 10 mi.

FIG. 1.

C O N T E N T S

P a g e

PART I - GEOCHEMICAL SURVEY

INTRODUCTION	3
(I) GENERAL.	3
(II) LOCATION AND ACCESS.	3
(III)a CLAIMS	4
b HISTORY.	5
c OWNER - OPERATOR	5
d ECONOMIC ASSESSMENT.	6
(IV) WORK SUMMARY	6
GEOCHEMICAL SURVEY	6
CONCLUSIONS.	11

MAPS

Location	Fig. 1	1
Claim Map	Fig. 2	2
Geochemical Map	Cu. Pb. Zn. Fig. 3	In pocket
Histograms	Cu. Pb. Zn. Fig. 4(a)(b)(c)	8-10

APPENDICES

Appendix 1	Certification
Appendix 2	Statement of Expense
Appendix 3(a)-3(f)	Geochemical Assays

PART II - GEOPHYSICAL REPORT

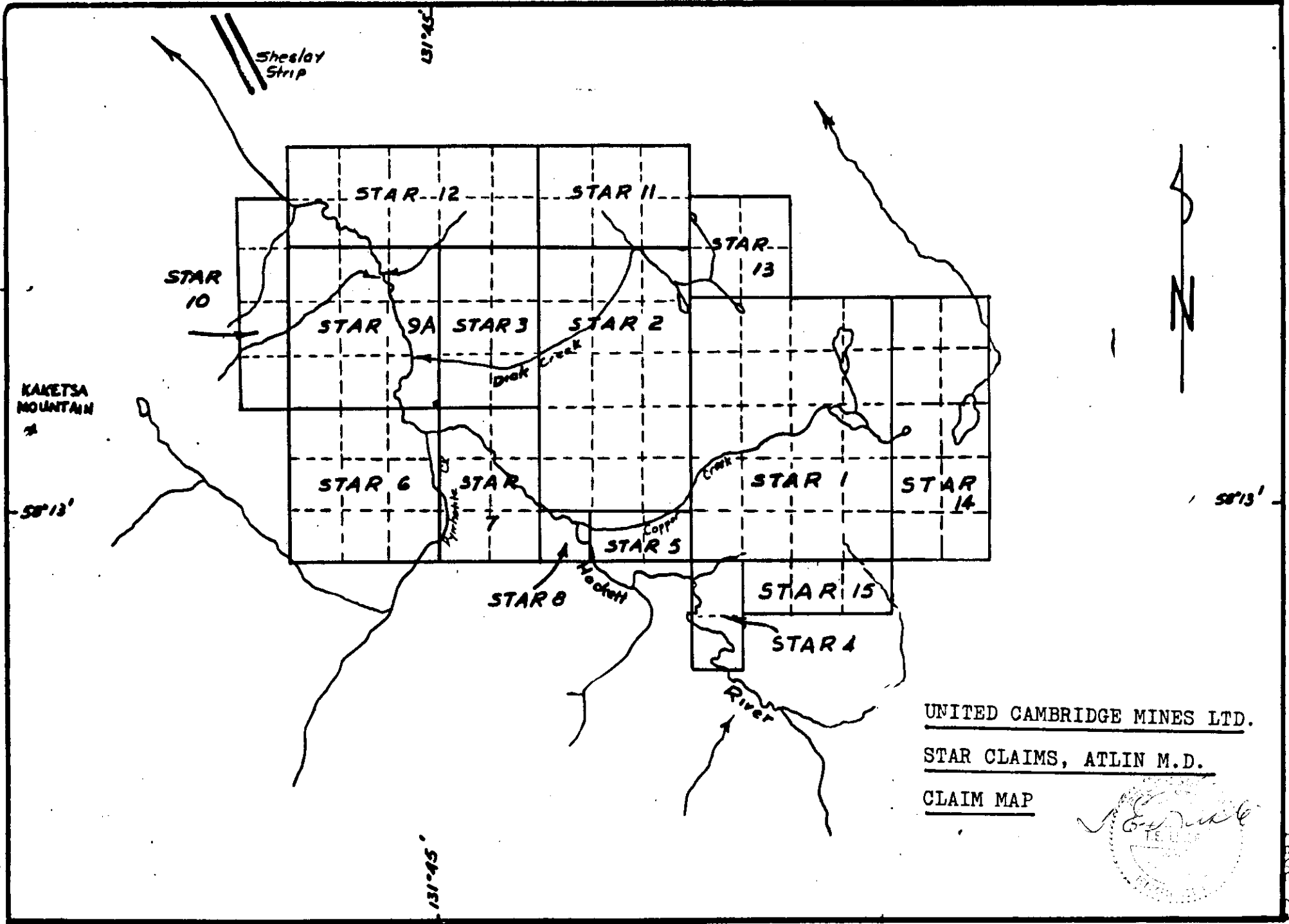


Fig 2.

INTRODUCTION

(I) GENERAL

During the period July 10 to October 14, 1980, United Cambridge Mines Ltd. undertook an exploration program on the Star Claims located at Sheslay in the Atlin Mining Division. The program consisted of linecutting, geochemical, geological, and geophysical surveys.

Most of the linecutting data was submitted for assessment requirements in September, 1980. This report, in two parts, covers the remainder of the linecutting, geochemical and geophysical surveys. Costs applicable for assessment are tabulated in Appendix 2.

(II) LOCATION - ACCESS

The claims are situated in the Atlin Mining Division and astride the Hackett River between elevations 610 and 1219 meters (2000 and 4000 ft.) N.T.S. 104-J-4. Lat. $58^{\circ} 13' N$. Long. $131^{\circ} 43' W$. The settlement of Telegraph Creek lies about 48 kilometers (30 miles) to the southeast. The location relative to roads is shown on Figure 1.

An airstrip was constructed in 1972 at Sheslay, about a mile northwest of the claim boundary. Current access is by fixed wing aircraft to the strip, or by helicopter from Telegraph Creek, Eddontenajon or Dease Lake.

Rough bulldozer trails along the Hackett River and on the upper slopes, particularly in the area of previous investigations, provide local access. The trails are suitable only for trailbikes or all-terrain type vehicles.

(III)a CLAIMS

<u>NAME</u>	<u>UNITS</u>	<u>GROUP</u>	<u>RECORDED</u>	<u>EXPIRES</u>
Star 1	20 98(7)	Hackett	July 5/76	July 5/82*
2	15 99(7)	Sheslay	July 5/76	July 5/83*
3	6 100(7)	Sheslay	July 5/76	July 5/83*
4	2 101(7)	Hackett	July 5/76	July 5/81
5	2 102(7)	Hackett	July 5/76	July 5/81
6	9 141(9)	Hackett	Sept. 30/76	Sept. 30/81*
7	6 142(9)	Hackett	Sept. 30/76	Sept. 30/81
8	1 143(9)	Hackett	Sept. 30/76	Sept. 30/83
# 9A	9		Oct. 27/80	Oct. 27/81
10	4 145(9)		Sept. 30/76	Sept. 30/81
11	6 146(9)	Sheslay	Sept. 30/76	Sept. 30/82*
12	8 147(9)	Sheslay	Sept. 30/76	Sept. 30/82*
13	4 148(9)	Sheslay	Sept. 30/76	Sept. 30/82*

In name of Mr. N. Thompson

* On acceptance of Sept/80 work

(III)b HISTORY

Background to the Sheslay area was covered in a November 2, 1976 report for United Cambridge Mines Ltd. and is briefly summarized below:

Copper mineralization discovered at Copper Creek in 1937 was partly tested by Brikon Exploration Ltd. who drilled four holes totalling 149 meters in 1956. Skyline Explorations Limited acquired the ground in 1968 and to 1972 with associates conducted geological and geochemical surveys and drilled 6 holes in the Copper Creek area. A zone on the south side of the Hackett River was also explored during the same period and this work resulted in the delineation of a mineralized zone (approximately 61 x 91 meters) grading 0.48% copper.

United Cambridge Mines Limited acquired the Copper Creek prospect in 1976 and discovered the Dick Creek prospect the same year. During 1976 and 1977 preliminary geochemical and geological surveys and a trenching program were completed at Dick Creek.

(III)c OWNER - OPERATOR

The Star Claims are owned by United Cambridge Mines Limited of Vancouver who funded the 1980 work program. The work was undertaken by R.H. Seraphim Engineering Limited.

(III)d ECONOMIC ASSESSMENT

Exploration programs carried out in the Sheslay area, mainly in the 1969 to 1980 period, have been directed to copper mineralization scattered around the Kaketsa stock.

Mineralized zones grading in the order of $\pm 0.40\%$ copper have been located at Copper Creek, Dick Creek and on the old Skyline property south of the Hackett River.

(IV) WORK SUMMARY

22 kilometers of new line were cut and picketed, 13.5 kilometers of old line brushed out and picketed and 6.25 kilometers of line flagged for a total of 41.75 kilometers. (lines are 122 meters apart and picketed at 50 meter centers).

Magnetic surveys were completed over the entire grid; 19.5 kilometers of I.P. survey were completed at Dick Creek and 6.5 kilometers at Copper Creek. Fill-in geochemical surveys were completed on lines between Copper Creek and Dick Creek. This involved 214 samples.

19.5 kilometers of ^{the} new grid line, and 10.6 kilometers of cut and brushed-out grid lines were recorded for assessment in September, 1980.

GEOCHEMICAL SURVEY

Soil samples were collected from flagged and cut grid lines as indicated on Figure 3. Samples were dug with a grub-hoe, mainly from 'B' horizon glacial soils at depths

averaging 15 to 25 centimeters. Samples were packaged in kraft envelopes appropriately marked with station number and shipped to Chemex Laboratory in North Vancouver where they were analyzed for Copper, Lead and Zinc. Results are shown on Figure 3 and histograms in Figures 4(a) to (c).

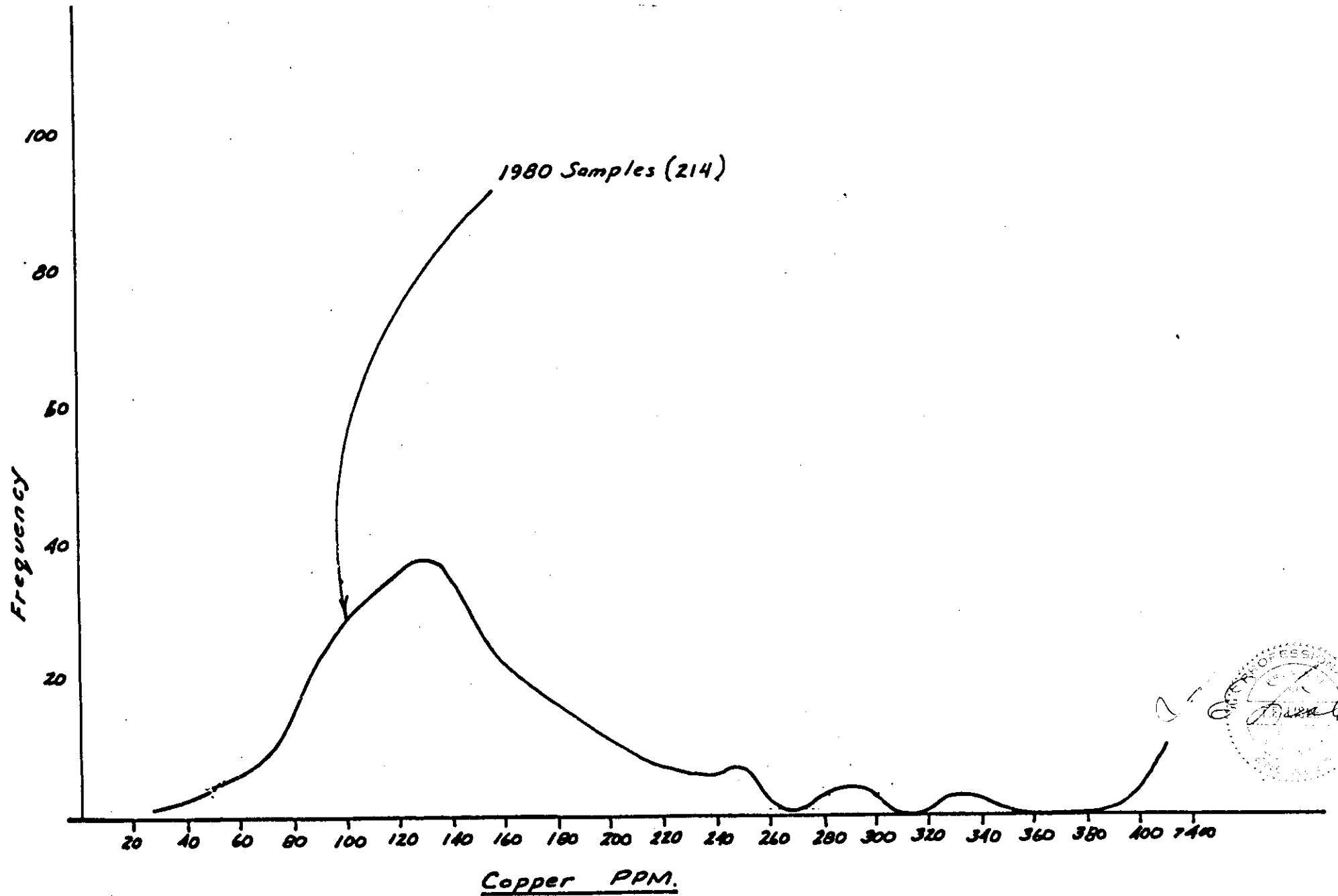
Copper - Previous geochemical and physical work at Dick and Copper Creeks indicate that areas of possible economic interest were partly outlined by the 400 ppm isopleth.

The 1980 work shows a range of 20 to 1200 ppm copper in the soils. Small areas of possible interest are scattered mainly along the east boundary of the Star 2 claims. Chalcopyrite is locally present in pyritized tuffaceous rocks in this area.

Zinc - Minor amounts of galena and sphalerite are reported in drill core and from surface from the Copper Creek area. These occurrences are locally reflected in high lead and zinc content in the soils. The 1980 work showed a range of zinc assays from 45 ppm to 2400 ppm zinc. Areas of possible interest, as indicated by the 800 ppm contour, are also scattered in the same zone as copper with higher than normal assays on sections of northeast lines - 2800 SE and 3200 SE.

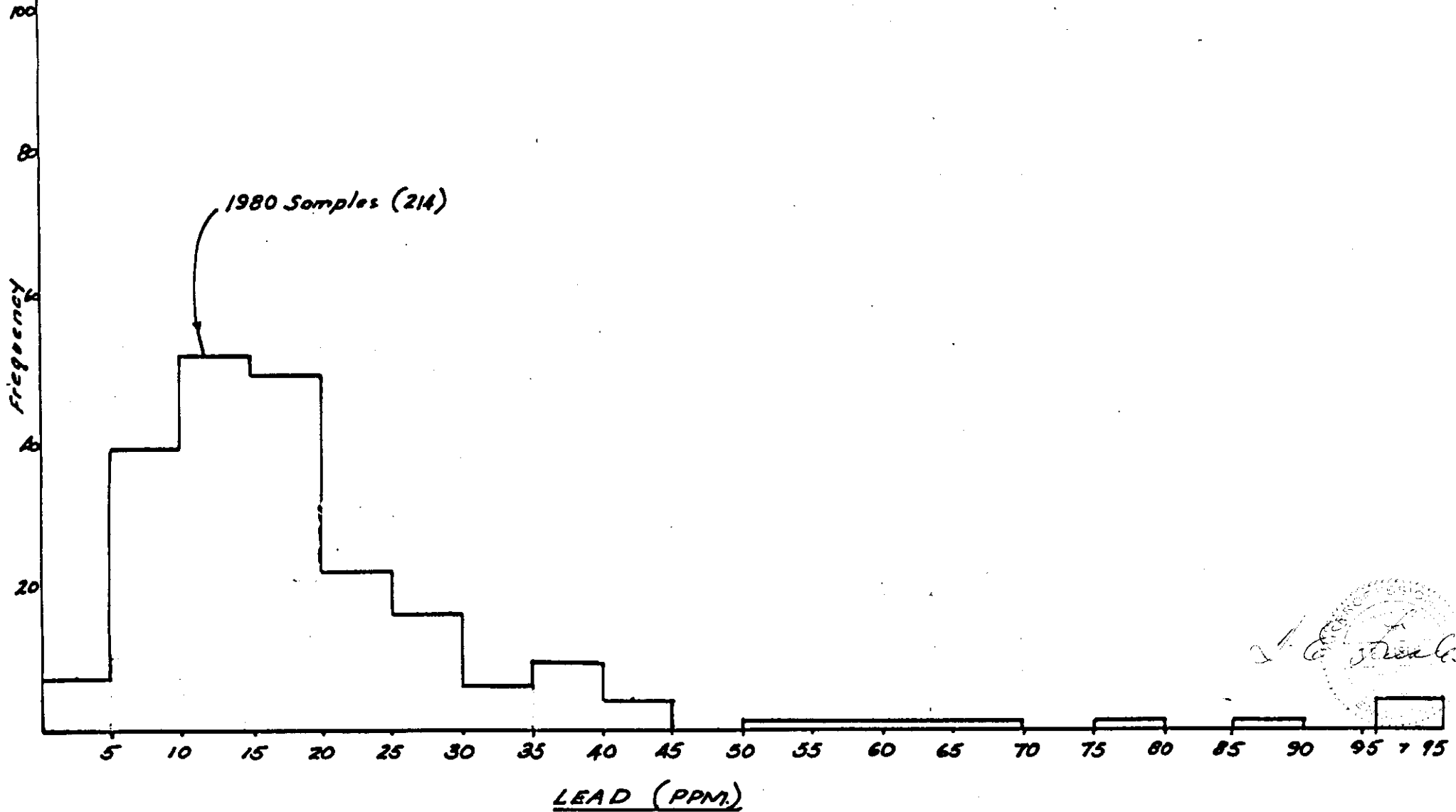
Lead - The 1980 samples range from 1 ppm to 380 ppm lead. Contoured at 50 ppm, an anomalous area (5 samples) is indicated southwest of the base line on Lines 4400 SE, 4500 SE and 5200 SE. This area is unmapped but is believed to be underlain by tuffaceous rocks previously described.

UNITED CAMBRIDGE MINES LTD.
GEOCHEMICAL SURVEY - COPPER



UNITED CAMBRIDGE MINES LTD.
GEOCHEMICAL SURVEY - LEAD.

*Histogram showing distribution
of values.*



J. C. Steele

Fig. 4b

UNITED CAMBRIDGE MINES LTD.
GEOCHEMICAL SURVEY - ZINC.

Nov/80

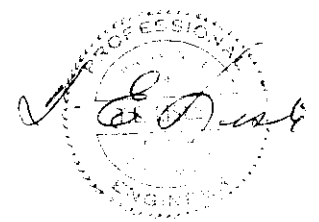
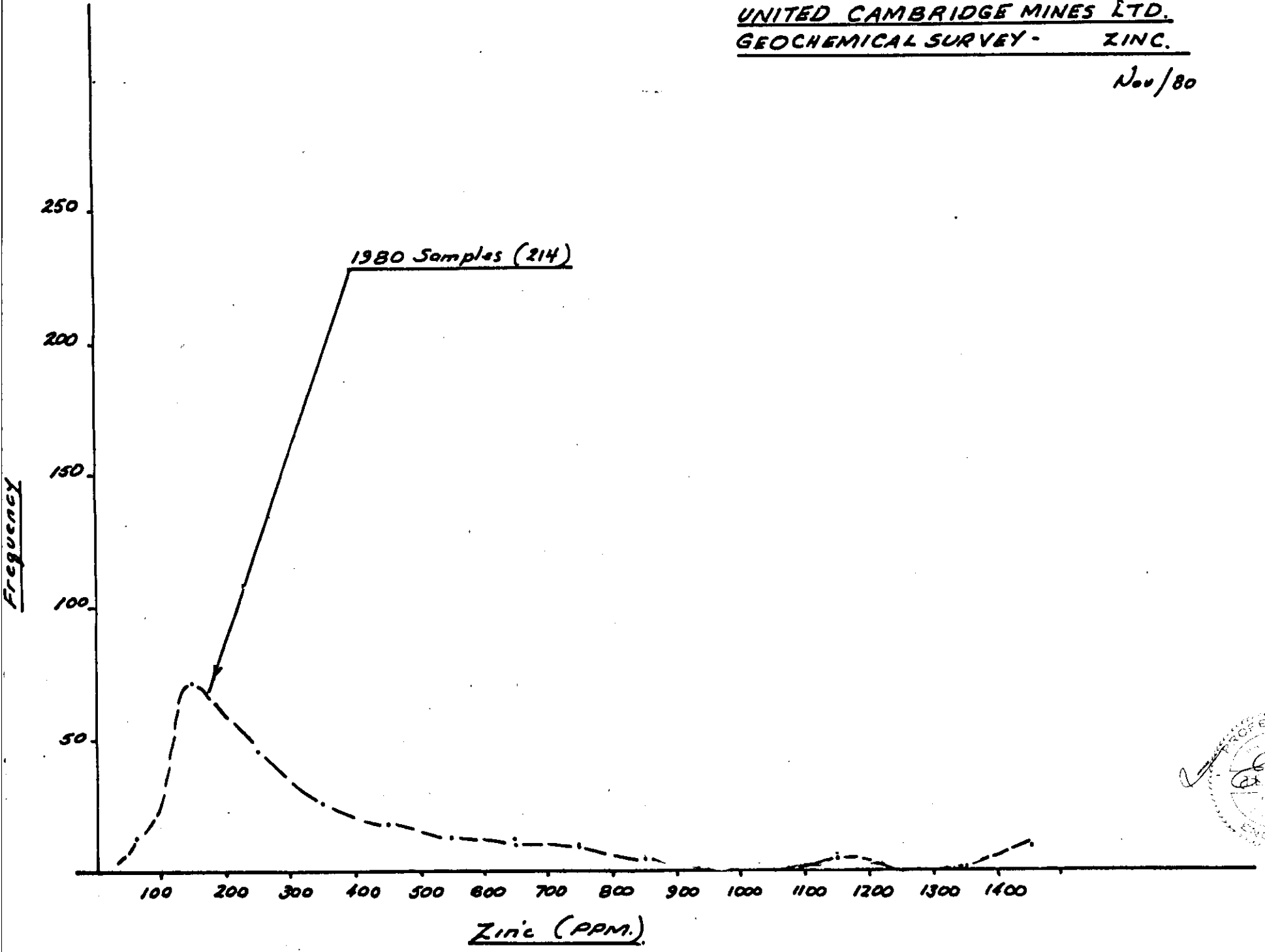


Fig. 4c.

The 1980 samples show a generally lower range of lead content than samples collected in previous surveys around Copper Creek. The reason for the difference is not readily apparent.

CONCLUSIONS

Some of the higher geochemical results, particularly copper and zinc, occur in areas of strong I.P. response north-east of the base line. Minor amounts of chalcopyrite and magnetite are present in pyritized tuffaceous rocks in this area. Because the geology is complex, the anomalous zones should be re-examined to determine their importance.


T.E. Lisle, P.Eng.

January 6, 1981.

C E R T I F I C A T I O N

I, T.E. Lisle, of the District of North Vancouver,
Province of British Columbia, hereby certify as follows:

1. I am a Geologist residing at 145 West Rockland Road,
North Vancouver, B.C.
2. I am a Professional Engineer registered in British
Columbia. I am a graduate of the University of
British Columbia, 1964.
3. I have practiced my profession since graduation and
was engaged intermittently in exploration geology
for several years prior to 1964.
4. With Dr. Seraphim, I retain a "Prospector's Interest"
in the Star Mineral claims.
5. The above report is based on field work carried out in
1976, 1977 and 1980, and on background data contained
in the references cited.

DATED at Vancouver, B.C. this 6th day of January, 1981.


T.E. LISLE, P.Eng.

EXPLORATION EXPENDITURES

Geophysical Surveys (See Appendix 1&2 of Geophysical
Report by P.E. Walcott, P.Eng.) \$ 19,592.61

Geochemical Survey , 214 Samples, Cu. Pb. Zn. 683.73

Air Support-

- Otter Aircraft, Sept. 11 and Oct 14/80 1,682.18

- Cessna 185 , Sept. 12, Oct. 4, 6, 13. 1980 990.32

Helicopters: Hughes 500C, Hiller Soloy
 Sept. 11, 18, 25, Oct. 4. and 13, 1980 4,391.30

Travel Expenses:

Sept. 10/80 Strauman Bros. to Watson L. Lisle to Terrace 396.40

Oct 14/80 Trans Provincial Air- Lisle-Taylor " " 280.80

" C.P. Air " " " Vancouver 190.10.

Sept 10/80 T.P.A. Lisle-Knoche to Dease Lake 280.80

Oct. 1 /80 C.P. Air Taylor to Watson Lake 152.30

Sept 30/80 " and T.P.A. McLuckie to Van. from Dease L. 225.72

Oct. 16 C.P. Air Fennings , Watson L. to Vancouver. 233.00

Sept 4-Oct 14 Misc. Travel Expenditures. 593.99

Seraphim Engineering Ltd. Field Personnel

J. Strauman Sept. 10 to 24/80 at \$ 62.50/day 937.50

D. Strauman " " " \$ 65.00/day 975.00

R. Knoche " " " " 975.00

S. McLuckie " 11 to 26 " 70.00/ " 1,120.00

D. Fennings " 17 to Oct. 3 " 70.00/ " 1,190.00

J. Taylor Oct. 1 to 14 . 97.50/ " 1,365.00

T. Lisle, P. Eng. Sept. 17-Oct. 14, 28 Field days plus
 4 office days at 180.00 5,760.00

Camp Costs:

Seraphim Eng Personnel 120 days at \$20.00 2,400.00

P. Walcott & Associates 67 " " " 1,340.00

45,755.75

T. G. Lisle

CHEMEX LABS LTD.212 BROOKSBANK AVE.
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CANADA V7J 2C1TELEPHONE: (604)984-0221
TELEX: 043-52597

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• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSISTO : R.H. SERAPHIM ENGINEERING LTD.
316-470 GRANVILLE ST.
VANCOUVER, B.C.
V6C 1V5CERT. # : A8010951-001-A
INVOICE # : 40366
DATE : 11-NOV-80
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
32 SE BLOO	201	80	26	795	--	--	--
32 SE 50SW	201	138	12	410	--	--	--
32 SE 100SW	201	58	8	750	--	--	--
32 SE 150SW	201	68	12	275	--	--	--
32 SE 200SW	201	72	14	380	--	--	--
32 SE 250SW	201	102	24	545	--	--	--
32 SE 300SW	201	104	14	430	--	--	--
32 SE 350SW	201	102	14	355	--	--	--
32 SE 400SW	201	94	12	195	--	--	--
32 SE 450SW	201	88	6	340	--	--	--
32 SE 500SW	201	90	12	295	--	--	--
32 SE 550SW	201	130	10	395	--	--	--
32 SE 600SW	201	104	8	320	--	--	--
32 SE 650SW	201	200	66	490	--	--	--
36 SE 50SW	201	80	18	510	--	--	--
36 SE 100SW	201	150	12	530	--	--	--
36 SE 150SW	201	128	14	350	--	--	--
36 SE 200SW	201	118	10	345	--	--	--
36 SE 250SW	201	106	18	215	--	--	--
36 SE 300SW	201	92	14	190	--	--	--
36 SE 350SW	201	100	14	625	--	--	--
36 SE 400SW	201	118	10	900	--	--	--
36 SE 450SW	201	114	12	235	--	--	--
36 SE 500SW	201	96	10	240	--	--	--
36 SE 550SW	201	128	8	195	--	--	--
36 SE 600SW	201	88	8	220	--	--	--
36 SE 650SW	201	90	8	190	--	--	--
40 SE 50SW	201	122	20	435	--	--	--
40 SE 100SW	201	158	12	380	--	--	--
40 SE 150SW	201	134	22	725	--	--	--
40 SE 200SW	201	245	24	145	--	--	--
40 SE 250SW	201	98	12	400	--	--	--
40 SE 300SW	201	90	20	235	--	--	--
40 SE 350SW	201	130	16	340	--	--	--
40 SE 400SW	201	172	18	300	--	--	--
40 SE 450SW	201	108	14	475	--	--	--
40 SE 500SW	201	330	16	230	--	--	--
40 SE 550SW	201	215	14	195	--	--	--
40 SE 600SW	201	122	8	175	--	--	--
40 SE 650SW	201	130	8	180	--	--	--

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VANCOUVER, B.C.
V6C 1V5CERT. # : A8010951-002-A
INVOICE # : 40366
DATE : 11-NOV-80
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
60 SE BLOO	201	230	56	280	--	--	--
60 SE 50SW	201	198	24	195	--	--	--
60 SE 100SW	201	192	40	195	--	--	--
60 SE 150SW	201	136	24	140	--	--	--
60 SE 200SW	201	240	62	1150	--	--	--
60 SE 250SW	201	152	26	645	--	--	--
60 SE 300SW	201	136	16	185	--	--	--
60 SE 350SW	201	134	18	320	--	--	--
60 SE 400SW	201	188	36	325	--	--	--
60 SE 450SW	201	245	52	1200	--	--	--
60 SE 500SW	201	176	38	190	--	--	--
36 SE BLOONE	201	158	16	215	--	--	--
36 SE 50NE	201	90	22	680	--	--	--
36 SE 100NE	201	130	24	305	--	--	--
36 SE 150NE	201	166	14	150	--	--	--
36 SE 200NE	201	132	12	110	--	--	--
36 SE 250NE	201	118	16	235	--	--	--
36 SE 300NE	201	850	10	115	--	--	--
36 SE 350NE	201	144	12	145	--	--	--
36 SE 400NE	201	82	18	320	--	--	--
36 SE 450NE	201	114	12	170	--	--	--
36 SE 500NE	201	540	4	115	--	--	--
36 SE 550NE	201	144	8	115	--	--	--
36 SE 600NE	201	120	10	200	--	--	--
36 SE 650NE	201	700	8	285	--	--	--
40 SE BLOONE	201	118	40	500	--	--	--
40 SE 50NE	201	92	32	1200	--	--	--
40 SE 100NE	201	126	20	350	--	--	--
40 SE 150NE	201	240	14	710	--	--	--
40 SE 200NE	201	134	24	485	--	--	--
40 SE 250NE	201	122	10	1190	--	--	--
40 SE 300NE	201	215	16	205	--	--	--
40 SE 350NE	201	122	10	70	--	--	--
40 SE 400NE	201	132	10	125	--	--	--
40 SE 450NE	201	144	12	180	--	--	--
40 SE 500NE	201	1200	8	165	--	--	--
40 SE 550NE	201	176	10	200	--	--	--
40 SE 600NE	201	170	12	370	--	--	--
40 SE 650NE	201	174	14	175	--	--	--
44 SE BLOO	201	134	44	850	--	--	--

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APPENDIX 3(c)

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CERTIFICATE OF ANALYSIS

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316-470 GRANVILLE ST.
VANCOUVER, B.C.
V6C 1V5

CERT. # : A8010951-003-A
INVOICE # : 40366
DATE : 11-NOV-80
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
44 SE 50NE	201	108	32	600	--	--	--
44 SE 100NE	201	90	42	610	--	--	--
44 SE 150NE	201	78	14	430	--	--	--
44 SE 200NE	201	270	14	390	--	--	--
44 SE 250NE	201	94	12	195	--	--	--
44 SE 300NE	201	122	14	520	--	--	--
44 SE 350NE	201	118	14	210	--	--	--
44 SE 400NE	201	98	10	225	--	--	--
44 SE 450NE	201	70	6	270	--	--	--
44 SE 500NE	201	20	1	55	--	--	--
44 SE 550NE	201	170	6	85	--	--	--
44 SE 600NE	201	215	8	135	--	--	--
44 SE 650NE	201	198	8	260	--	--	--
44 SE 750NE	201	300	14	110	--	--	--
48 SE BLOOD	201	196	12	320	--	--	--
48 SE 50NE	201	188	32	195	--	--	--
48 SE 100NE	201	158	18	150	--	--	--
48 SE 150NE	201	106	24	165	--	--	--
48 SE 200NE	201	104	12	255	--	--	--
48 SE 250NE	201	134	14	150	--	--	--
48 SE 300NE	201	156	18	425	--	--	--
48 SE 350NE	201	184	38	170	--	--	--
48 SE 400NE	201	132	8	95	--	--	--
48 SE 450NE	201	340	8	220	--	--	--
48 SE 500NE	201	114	12	115	--	--	--
48 SE 550NE	201	154	2	45	--	--	--
48 SE 600NE	201	112	16	650	--	--	--
48 SE 650NE	201	108	20	255	--	--	--
48 SE 750NE	201	162	36	740	--	--	--
60 SE 50NE	201	220	20	585	--	--	--
60 SE 100NE	201	112	14	300	--	--	--
60 SE 150NE	201	140	22	165	--	--	--
60 SE 200NE	201	102	28	720	--	--	--
60 SE 250NE	201	200	380	600	--	--	--
60 SE 300NE	201	166	22	490	--	--	--
60 SE 350NE	201	158	18	175	--	--	--
60 SE 450NE	201	144	20	280	--	--	--
60 SE 500NE	201	250	14	370	--	--	--
2800 SE 50NE	201	122	14	145	--	--	--
2800 SE 100NE	201	162	6	1750	--	--	--

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316-470 GRANVILLE ST.
VANCOUVER, B.C.
V6C 1V5

CERT. # : AB010951-004-A
INVOICE # : 40366
DATE : 11-NOV-80
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
2800 SE 150NE	201	170	8	1750	--	--	--
2800 SE 200NE	201	220	4	310	--	--	--
2800 SE 250NE	201	220	12	525	--	--	--
2800 SE 300NE	201	230	14	1000	--	--	--
2800 SE 350NE	201	116	16	670	--	--	--
2800 SE 400NE	201	164	14	2400	--	--	--
2800 SE 450NE	201	174	10	1850	--	--	--
2800 SE 500NE	201	990	16	315	--	--	--
2800 SE 550NE	201	330	18	275	--	--	--
2800 SE 600NE	201	300	16	260	--	--	--
2800 SE 650NE	201	154	12	575	--	--	--
3200 SE 50NE	201	160	16	190	--	--	--
3200 SE 100NE	201	82	28	570	--	--	--
3200 SE 150NE	201	350	18	245	--	--	--
3200 SE 200NE	201	196	18	230	--	--	--
3200 SE 250NE	201	138	14	470	--	--	--
3200 SE 300NE	201	102	10	665	--	--	--
3200 SE 350NE	201	220	22	870	--	--	--
3200 SE 400NE	201	385	14	245	--	--	--
3200 SE 450NE	201	260	24	1500	--	--	--
3200 SE 500NE	201	300	26	1350	--	--	--
3200 SE 550NE	201	156	26	645	--	--	--
3200 SE 600NE	201	122	34	730	--	--	--
3200 SE 650NE	201	150	28	715	--	--	--
44+00SE 0+50SW	201	110	30	410	--	--	--
44+00SE 1+00SW	201	156	142	580	--	--	--
44+00SE 1+50SW	201	200	24	225	--	--	--
44+00SE 2+00SW	201	90	28	480	--	--	--
44+00SE 2+50SW	201	255	20	1700	--	--	--
44+00SE 3+00SW	201	114	2	100	--	--	--
44+00SE 3+50SW	201	94	20	215	--	--	--
48+00SE 0+50SW	201	150	26	310	--	--	--
48+00SE 1+00SW	201	480	196	1700	--	--	--
48+00SE 1+50SW	201	260	24	410	--	--	--
48+00SE 2+00SW	201	295	38	190	--	--	--
48+00SE 2+50SW	201	98	32	275	--	--	--
48+00SE 3+00SW	201	134	32	200	--	--	--
48+00SE 3+50SW	201	230	20	210	--	--	--
48+00SE 4+00SW	201	114	28	205	--	--	--
48+00SE 4+50SW	201	230	22	100	--	--	--

Certified by *[Signature]*

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CERTIFICATE OF ANALYSISTO : R.H. SERAPHIM ENGINEERING LTD.
316-470 GRANVILLE ST.
VANCOUVER, B.C.
V6C 1V5CERT. # : A8010951-005-A
INVOICE # : 40366
DATE : 11-NOV-80
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
48+00SE 5+00SW	201	122	12	365	--	--	--
48+00SE 5+50SW	201	178	14	270	--	--	--
52+00SE 0+50SW	201	126	18	285	--	--	--
52+00SE 1+00SW	201	184	26	650	--	--	--
52+00SE 1+50SW	201	220	110	555	--	--	--
52+00SE 2+00SW	201	144	88	460	--	--	--
52+00SE 2+50SW	201	130	80	435	--	--	--
52+00SE 3+00SW	201	106	40	290	--	--	--
52+00SE 3+50SW	201	144	30	245	--	--	--
52+00SE 4+00SW	201	112	20	300	--	--	--
52+00SE 4+50SW	201	128	20	195	--	--	--
52+00SE 5+00SW	201	148	14	160	--	--	--
52+00SE 5+50SW	201	210	24	110	--	--	--
52+00SE 6+00SW	201	194	16	145	--	--	--
52+00SE 6+50SW	201	595	6	110	--	--	--
52+00SE 7+00SW	201	200	42	380	--	--	--
52+00SE 7+50SW	201	138	16	175	--	--	--
56+00SE 0+50SW	201	148	20	250	--	--	--
56+00SE 1+00SW	201	136	20	235	--	--	--
56+00SE 1+50SW	201	122	16	230	--	--	--
56+00SE 2+00SW	201	50	18	110	--	--	--
56+00SE 2+50SW	201	630	40	285	--	--	--
56+00SE 3+00SW	201	90	20	125	--	--	--
56+00SE 3+50SW	201	60	16	180	--	--	--
56+00SE 4+00SW	201	44	22	185	--	--	--
56+00SE 4+50SW	201	38	22	430	--	--	--
56+00SE 5+00SW	201	92	30	235	--	--	--
56+00SE 5+50SW	201	138	18	90	--	--	--
56+00SE 6+00SW	201	132	22	195	--	--	--
56+00SE 6+50SW	201	74	20	200	--	--	--
56+00SE 7+00SW	201	72	18	170	--	--	--
56+00SE 7+50SW	201	58	8	160	--	--	--
BL 52+00SE	201	695	26	175	--	--	--
52+00SE 0+50NE	201	172	30	115	--	--	--
52+00SE 1+00NE	201	142	12	155	--	--	--
52+00SE 1+50NE	201	154	14	130	--	--	--
52+00SE 2+00NE	201	530	4	25	--	--	--
52+00SE 2+50NE	201	160	8	160	--	--	--
52+00SE 3+00NE	201	90	10	190	--	--	--
52+00SE 3+50NE	201	164	12	185	--	--	--

Certified by *Hart Biddle*MEMBER
CANADIAN TESTING
ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : R.H. SERAPHIM ENGINEERING LTD.
316-470 GRANVILLE ST.
VANCOUVER, B.C.
V6C 1V5

CERT. # : A8010951-006-A
INVOICE # : 40366
DATE : 11-NOV-80
P.O. # : NDNE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
52+00SE 4+00NE	201	260	10	105	--	--	--
52+00SE 4+50NE	201	134	16	160	--	--	--
52+00SE 5+00NE	201	150	22	125	--	--	--
BL 5600SE	201	174	24	165	--	--	--
56+00SE 0+50NE	201	118	12	170	--	--	--
56+00SE 1+00NE	201	106	18	315	--	--	--
56+00SE 1+50NE	201	98	8	220	--	--	--
56+00SE 2+00NE	201	180	6	210	--	--	--
56+00SE 2+50NE	201	285	2	70	--	--	--
56+00SE 3+00NE	201	148	16	200	--	--	--
56+00SE 3+50NE	201	162	14	180	--	--	--
56+00SE 4+00NE	201	146	12	95	--	--	--
56+00SE 4+50NE	201	132	20	160	--	--	--
56+00SE 5+00NE	201	172	42	140	--	--	--

Certified by




MEMBER
CANADIAN TESTING
ASSOCIATION

PETER E. WALCOTT & ASSOC. LTD.

A REPORT

on

A MAGNETIC &

INDUCED POLARIZATION SURVEY

Shesley Area, Atlin M.D., B.C.

for

UNITED CAMBRIDGE MINES LTD.

Vancouver, B.C.

by

PETER E. WALCOTT & ASSOC. LTD.

Vancouver, B.C.

DECEMBER 1980

GEOPHYSICAL SERVICES

TABLE OF CONTENTS.

	<u>Page</u>
INTRODUCTION	1
PROPERTY, LOCATION & ACCESS	2
PURPOSE	3
PREVIOUS WORK	4
GEOLOGY	5
SURVEY SPECIFICATIONS	6
DISCUSSION OF RESULTS	8
SUMMARY, CONCLUSIONS & RECOMMENDATIONS	11

APPENDIX

COST OF SURVEY	i
PERSONNEL EMPLOYED ON SURVEY	ii
CERTIFICATION	iii

ACCOMPANYING MAPS

MAP POCKET

MAGNETOMETER SURVEY - Scale 1:5000	W-288-1
PROFILES OF APPARENT RESISTIVITY - Dick Cr. 1:2500	W-288-2
" " " CHARGEABILITY- " " "	W-288-3
" " " RESISTIVITY - Copper Cr. "	W-288-4
" " " CHARGEABILITY - " " "	W-288-5
CONTOURS OF APPARENT CHARGEABILITY	
a = 100m n = 1 - Scale 1:5000	W-288-6

INTRODUCTION.

Between September 10th and October 14th, 1980, Peter E. Walcott & Associates Limited undertook a ground magnetic and induced polarization (I.P.) survey programme on the Star claims held by United Cambridge Mines Ltd.

The survey was carried out over two grids namely the Dick Creek and Copper Creek grids respectively, the lines of which were put in by the staff of R.H. Seraphim Engineering Limited.

Measurements (first to third separation) of apparent chargeability (the I.P. response parameter) were taken along the picket lines using a dipole of 100 metres. The first separation measurements were taken at 50 metre intervals while the other two were recorded at the standard 100 metre intervals. In addition simultaneous readings of apparent resistivity were also obtained.

Readings of the relative vertical intensity of the earth's field were obtained at 50 metre intervals along the picket lines using a McPhar M-700 fluxgate magnetometer.

The proposed I.P. coverage was not entirely obtained due to the fact that the I.P. generator packed it in with five traverses left undone. A review of the data to date at that time did not justify the delay in sending in a replacement and the camp breakup and move out was initiated at that time.

The data are presented in contour and profile form on Maps W-288-1 to 6 that accompany this report.

PROPERTY, LOCATION AND ACCESS.

The property, known as the Star Claims, is located in the Atlin Mining Division of British Columbia.

It is situated astride the Hackett River between the 600 and 1200 metre elevations some 48 kilometres northwest of the settlement of Telegraph Creek.

Access was obtained either by fixed wing to the Sheslay strip, about a kilometre and a half northwest of the property boundary, or directly by helicopter from bases in Telegraph Creek or Dease Lake.

PURPOSE.

The purpose of the survey was to investigate the geophysical nature of the skarn zone on the Dick Creek prospect and to try to outline zones of sulphide mineralization in the Copper Creek area where previous exploration had indicated good grade copper mineralization.

PREVIOUS WORK.

The reader is referred to reports held by United Cambridge Mines Ltd. reference to which may be obtained from a report by T.E. Lisle, P.Eng. of Seraphim Engineering Limited.

GEOLOGY.

The reader is referred to the forementioned report by
T.E. Lisle, P.Eng.

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was carried out using a pulse type system, the principal components of which are manufactured by Huntec Limited and Crone Geophysics Limited of Metropolitan Toronto, Ontario.

The system consists of basically three units: a receiver (Crone), a transmitter and a motor generator (Huntec). The transmitter which provides a maximum of 7.5 kw d.c. to the ground, obtains its power from a 7.5 kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurement of the current (I) in amperes flowing through electrodes C₁ and C₂, the primary voltage (V) appearing between the two potential electrodes, P₁ and P₂, during the "current-on" part of the cycle, and the apparent chargeability (M_a) presented as a direct readout (two samples of the decay curve M_a (0.45 - 0.90 seconds) and N_a (0.90 - 1.35 seconds) are taken for 3 current cycles, automatically averaged, adjusted to the 33M₁ standard and stored).

The apparent resistivity (P_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode C₁, and the two potential electrodes, P₁ and P₂, are moved in unison along the survey lines. The spacing "na" (n an integer) between C₁ and P₁ is kept constant for each traverse at a distance roughly equal to the depth to be explored by that traverse, while that of P₁ - P₂ (the dipole) is kept constant at "a". The second current electrode C₂ is kept constant at "infinity".

Thus usually on a "pole-dipole array" traverse with an electrode spacing of 100 metres a body lying at a depth of 50 metres will produce a strong response, whereas the same body lying at a depth of

SURVEY SPECIFICATIONS cont'd

100 metres will only just be detected. By running subsequent traverses at different electrode separations, more precise estimates can be made of depth, width, thickness and percentage of sulphides of causative bodies located by the I.P. method.

The survey was carried out using a dipole of 100 metres. First separation readings were obtained at 50 metre intervals, while second and third separation measurements were carried out at 100 metre intervals.

The magnetic survey was carried out using a McPhar M-700 fluxgate magnetometer. This instrument measures variations in the vertical component of the earth's magnetic field to an accuracy of \pm 10 gammas. Corrections for diurnal variations were made by tying in to previously established base stations at intervals not exceeding two hours.

DISCUSSION OF RESULTS.

This section should be reviewed in conjunction with the report of T.E. Lisle P.Eng. with whom the writer has had several discussions re the results obtained on the property.

The Magnetic Survey.

The results of the magnetic survey (Map W-288-1) suggest that the area surveyed could be divided into three magnetically separate regions namely - (1) the region to the west of Dick Creek (2) the central region and (3) basically the area covered by the Copper Creek grid.

A major northeasterly trending fault down Dick Creek would appear to separate areas 1 and 2.

The intrusive hornblende diorite stock in the centre of the western region would appear to exhibit a 200 to 300 gamma anomaly over the magnetic background though its expression is complicated by local magnetite occurrences on its perimeter and within in fractures.

Area 2 consists mostly of small local magnetic highs reflecting local magnetite conditions in the underlying volcanic - sedimentary assemblage. Although somewhat biased by station density these highs show a striking NW trend.

The third area does not exhibit the same magnetic relief of the other two. Its highs presumably represent the more basic phases of the underlying rocks as can be seen by correlation with the mapped geology.

The I.P. Survey.

On considering the n=3 chargeability responses on Maps W-288-3 to 5 there appears to be a sulphide - non sulphide demarkation line (figuratively speaking) trending west northwesterly between 3 SW on Line 0 and 2 NE on Line 4 NW in the volcanic sedimentary package.

This follows no apparent geologic nor magnetic pattern.

DISCUSSION OF RESULTS cont'd

The n=3 response suggests offsets between Lines 12 and 16 SE, Lines 32 and 36 SE and Lines 28 and 20 NW. The first and last of these appear to correspond with mapped or interpreted northeasterly trending faults.

A strong I.P. response on all three separations was obtained over the mapped mineralization and corresponding geochemical anomaly in and around the main intrusive on the Dick Creek grid centred about 2 NE, and presumably indicates a large pyritized complex. It is well defined on the chargeability contour plan of the first separation - Map W-288-6.

A weaker but as yet undelineated anomaly is also observed on the southwesterly ends of Lines 8 & 12 NW again associated with a somewhat weaker and smaller geochemical anomaly.

Another strong anomalous zone with relatively shallow causative source (s) was observed east of Dick Creek.

This zone exhibits a stronger response on the first separation than that around the intrusive and may be due to a large mineralized package within the sedimentary fragmented rocks underlying the northern portion of the grid.

This zone presumably extends over to at least Line 4 NW, the gap in the I.P. coverage notwithstanding.

No I.P. response was obtained over a similar rock assemblage with similar magnetic characteristics occurring southwest of the baseline.

Weak responses were observed on Line 4 NW (Copper Creek grid) between 2 and 5 SW corresponding with weak geochemical responses in areas of interpreted hornblende diorite.

No anomalous conditions were observed over and around the main Copper Creek showing on Line 16 SW. This is not surprising in the writer's opinion as holes No. 1 and 2-drilled from the same location - failed to intersect the same mineralized zone leaving the writer to believe that the mineralization probably consists of small narrow zones of no great extent.

The resistivity survey did little except indicate bedrock

DISCUSSION OF RESULTS cont'd

conductivity and overburden thickness with somewhat lower values in drift covered areas.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Between September 10th and October 14th, 1980, Peter E. Walcott & Associates Limited carried out ground magnetic and I.P. surveys for United Cambridge Mines over its Sheslay property.

The property, i.e. the Star Claims, is located astride the Hackett River northwest of Telegraph Creek.

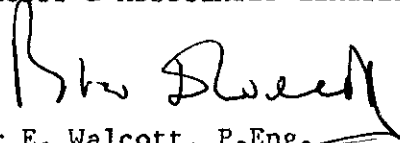
The magnetic survey suggested the area was best divided into three magnetic regions on the strength of the magnetic patterns obtained.

The I.P. survey showed two strong zones exhibiting high anomalous responses. These are due to sulphide mineralization - presumably pyrite and other metallic sulphides as suggested by the favourable geochemical response.

As a result on the basis of the above and the favourable geology the writer recommends that the property be subjected to diamond drilling investigation - the focus of which has already been fingered by T.E. Lisle, P.Eng.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LIMITED


Peter E. Walcott, P.Eng.
Geophysicist

Vancouver,
British Columbia

December 1980

PETER E. WALCOTT & ASSOC. LTD.

A P P E N D I X



COST OF SURVEY.

Peter E. Walcott & Associates Limited undertook the magnetic survey on a production basis, and the I.P. survey on a daily basis. Mobilization and draughting costs were extra so that the total cost of services provided was \$19,592.61.

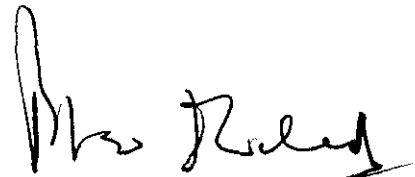
PERSONNEL EMPLOYED ON SURVEY

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. Ltd. 605 Rutland Court, Coquitlam, B.C.	Oct. 21, 28, Nov. 27-30, 80
Gary MacMillan	Geophysical Operator	" "	Sept. 10 - Oct. 14, 80 Nov. 5 - 13th, 8
L. Perreault	"	" "	Sept. 12th - 26th, 1980
D. Mason	"	" "	Oct. 4th - 14th, 80
P. Carswell	Helper	" "	Sept. 29th - Oct. 14th, 80
J. Walcott	Typing	" "	Dec. 5th, 80

CERTIFICATION.

I, Peter E. Walcott, of the Municipality of Coquitlam, British Columbia, hereby certify that:

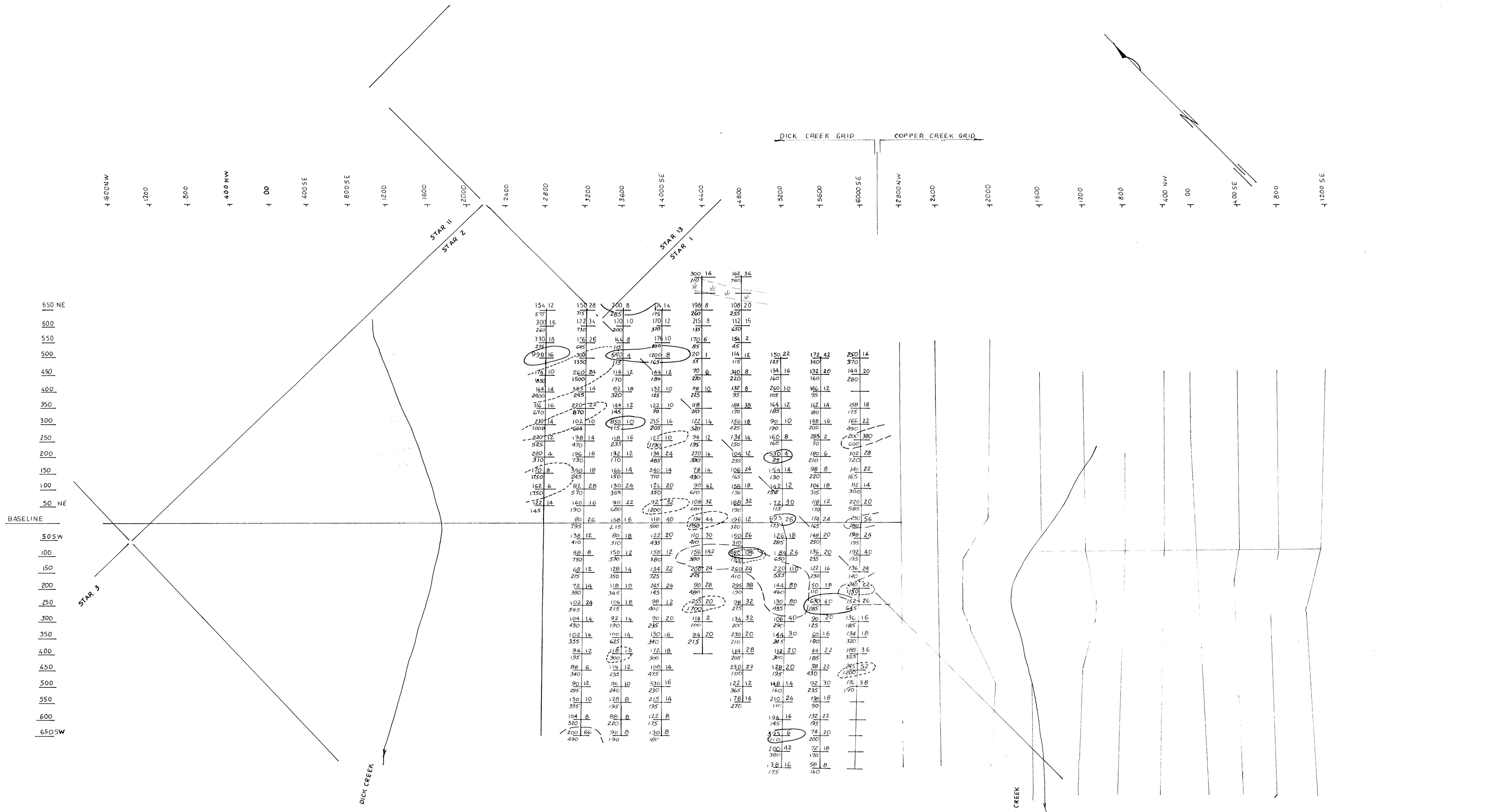
1. I am a Graduate of the University of Toronto with a B.A.Sc. in Engineering Physics, Geophysics Option, in 1962.
2. I have been practising my profession for the last 18 years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct or indirect in the securities or properties of United Cambridge Mines Ltd., nor do I expect to receive any.



Peter E. Walcott, P.Eng.

Vancouver,
British Columbia

December 1980



650 NE
600
550
500
450
400
350
300
250
200
150
100
50 NE
BASELINE
50 SW
100
150
200
250
300
350
400
450
500
550
600
650 SW

Cu Pb Assays in PPM
Zn

- > 800 PPM Zn
- > 400 PPM Cu
- > 50 PPM Pb

MINERAL RESOURCES BRANCH
8882

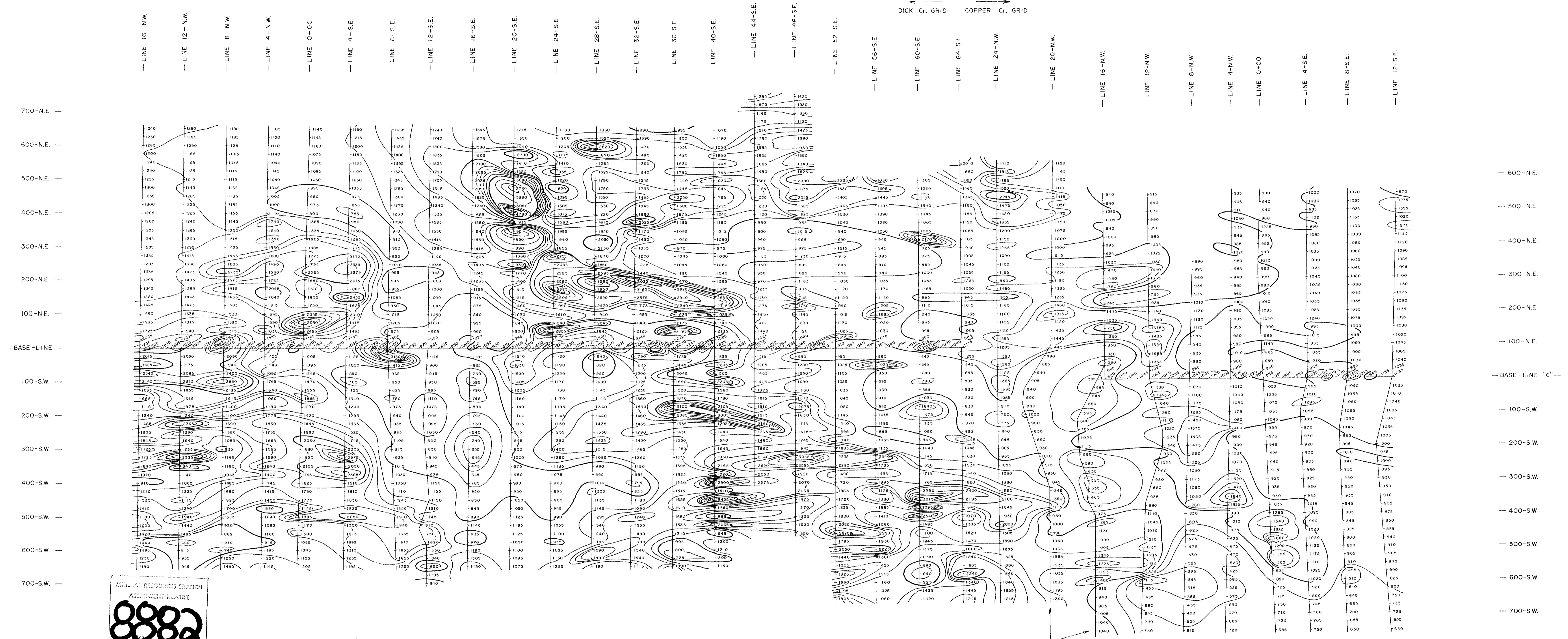
*To accompany Geochemical
and Geophysical Report on
Star Claims Atlas M.D.
January 1981.*
J. G. Dineen

UNITED CAMBRIDGE MINES LIMITED.
STAR COPPER PROSPECT - ATLIN M.D.

GEOCHEMICAL SURVEY Cu, Pb, Zn.

Scale 1:5000 DECEMBER 1980

0 50 100 150 200 250 300 350 400 450 500 Meters



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8882



UNITED CAMBRIDGE MINES LTD.
STAR MINERAL CLAIMS, ATLIN M.D., B.C.

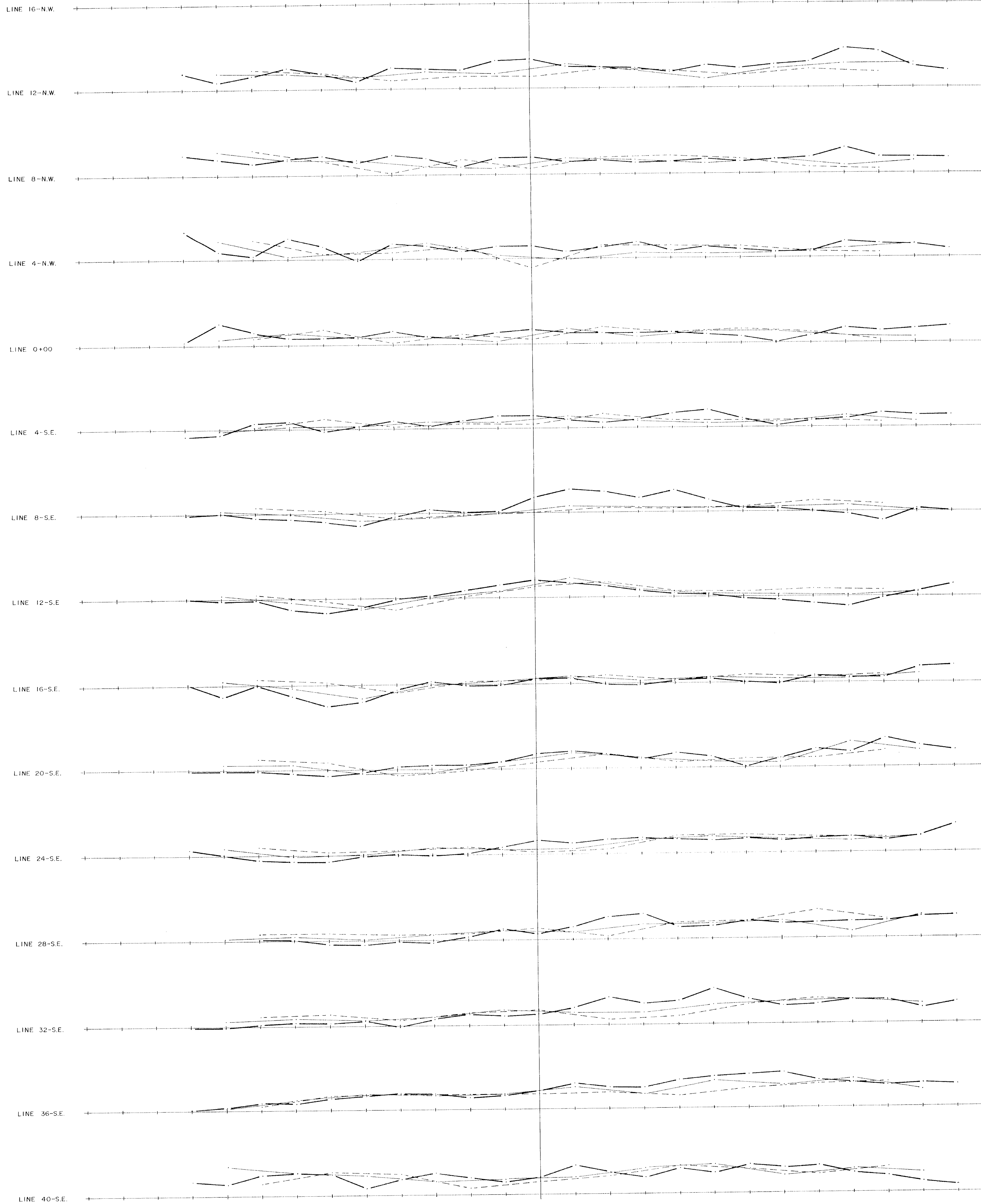
MAGNETOMETER SURVEY
CONTOURS OF RELATIVE VERTICAL INTENSITY
(IN GAMMAS)

SCALE 1:5,000

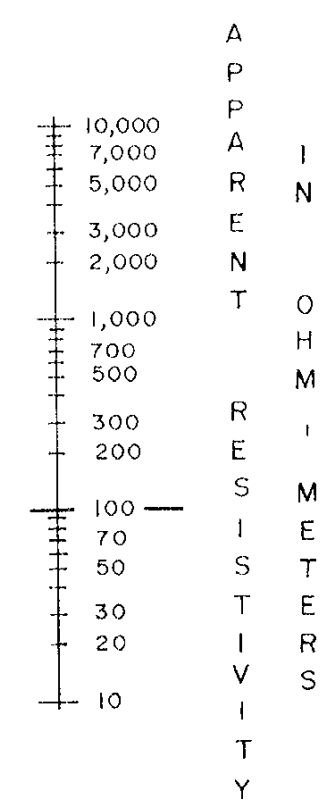
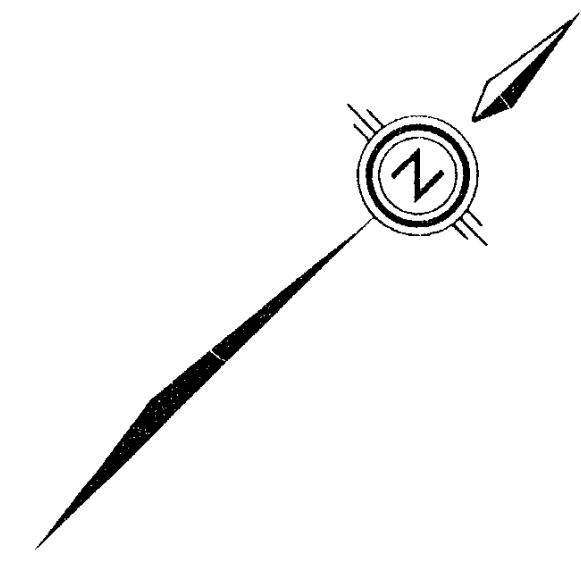
MAP No. W-288-1
TO ACCOMPANY A REPORT BY
PETER E. WALCOTT, P. Eng.

PETER E. WALCOTT & ASSOC. LTD.
SEPT.-OCT. -1980

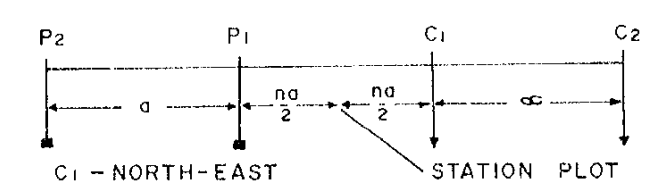
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600-S.W. 500-S.W. 400-S.W. 300-S.W. 200-S.W. 100-S.W. B.L. 100-N.E. 200-N.E. 300-N.E. 400-N.E. 500-N.E. 600-N.E.

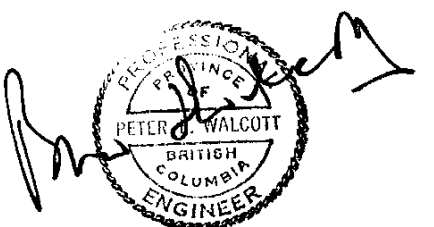


POLE - DIPOLE ARRAY



a = 100 m, n = 1
 a = 100 m, n = 2
 a = 100 m, n = 3

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
8882



UNITED CAMBRIDGE MINES LTD.
 STAR MINERAL CLAIMS, DICK Cr. GRID, ATLIN M.D., B.C.

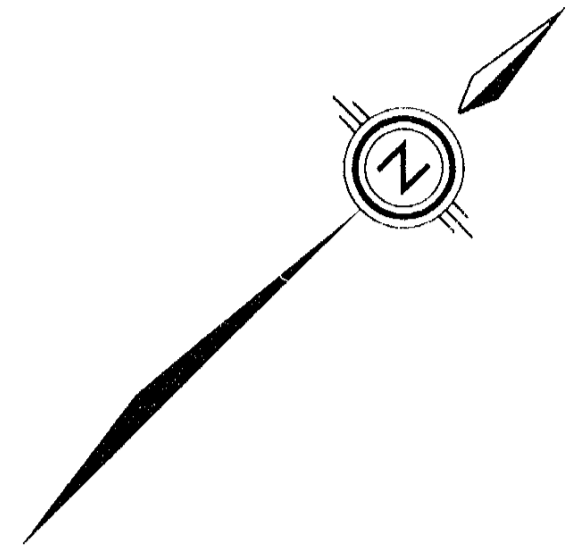
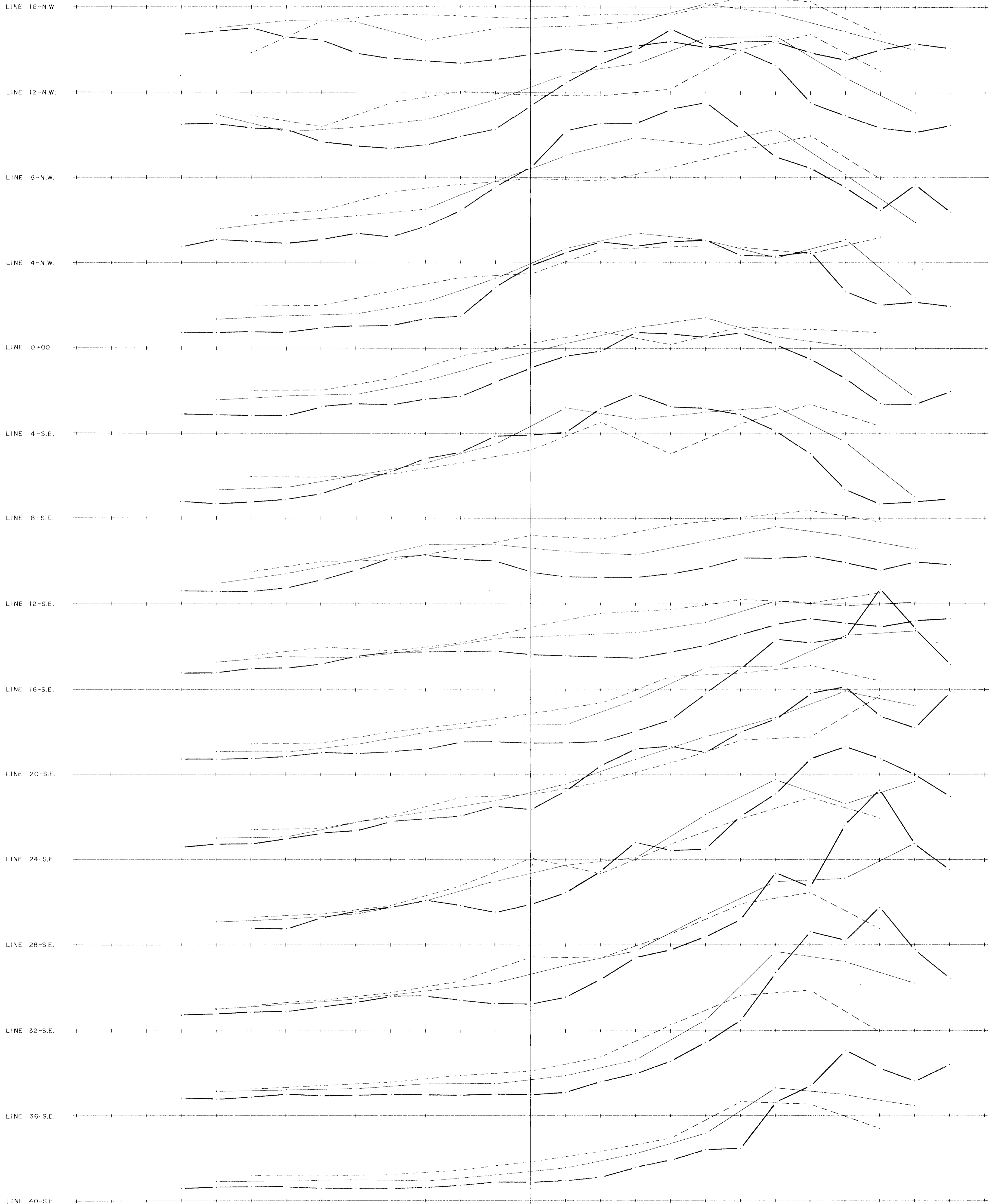
INDUCED POLARIZATION SURVEY
 PROFILES OF APPARENT RESISTIVITY

SCALE 1 : 2,500

MAP No. W-288-2
 TO ACCOMPANY A REPORT BY
 PETER E. WALCOTT, P.Eng.

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 SEPT. - OCT. - 1980

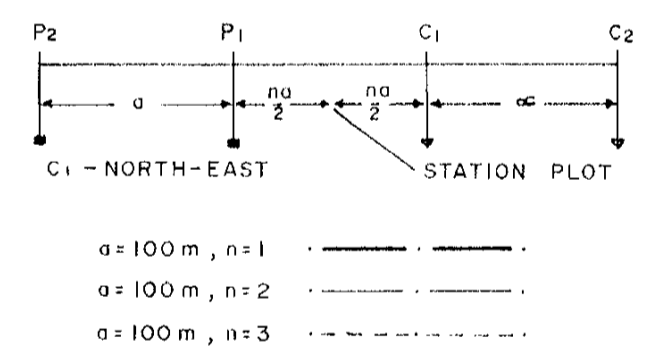
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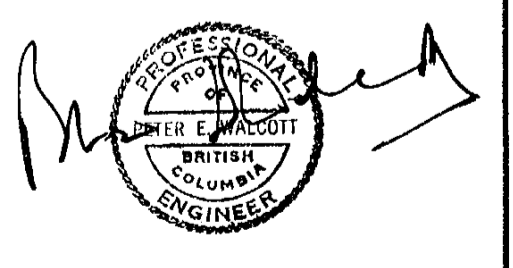
APPARENT
CHARGEABILITY
MILLISECONDS

100
90
80
70
60
50
40
30
20
10
0

POLE - DIPOLE ARRAY



MINERAL TECHNOLOGIES BRANCH
ASSESSMENT REPORT
8882
NO.



UNITED CAMBRIDGE MINES LTD.
STAR MINERAL CLAIMS, DICK Cr. GRID, ATLIN M.D., B.C.

INDUCED POLARIZATION SURVEY
PROFILES OF APPARENT CHARGEABILITY

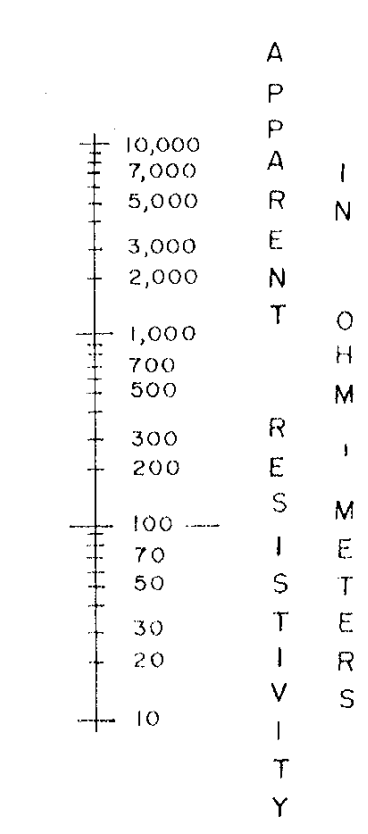
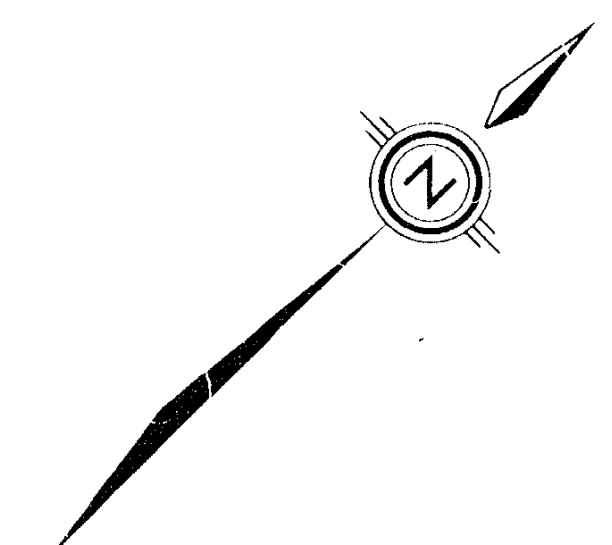
SCALE 1:2,500

MAP No. W-288-3
TO ACCOMPANY A REPORT BY
PETER E. WALCOTT, P. Eng.

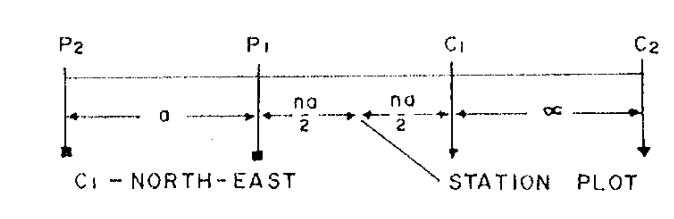
PETER E. WALCOTT & ASSOC. LTD.
SEPT.-OCT., 1980

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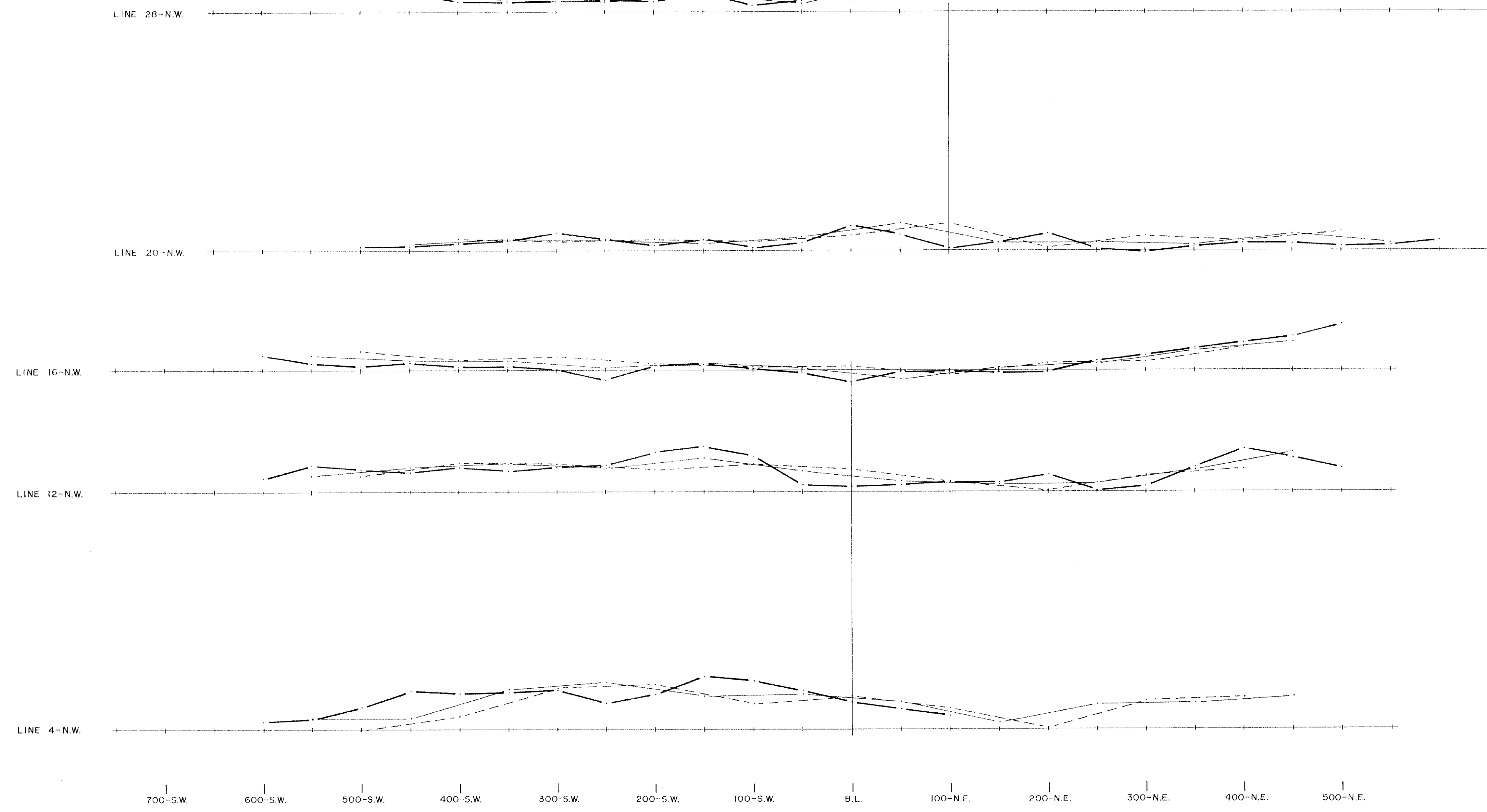
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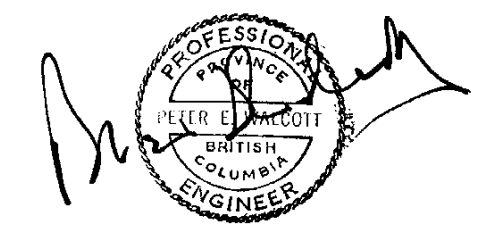
POLE - DIPOLE ARRAY



- α = 100 m, n = 1 ————
- α = 100 m, n = 2 - - - - -
- α = 100 m, n = 3 ······



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8882
NO.



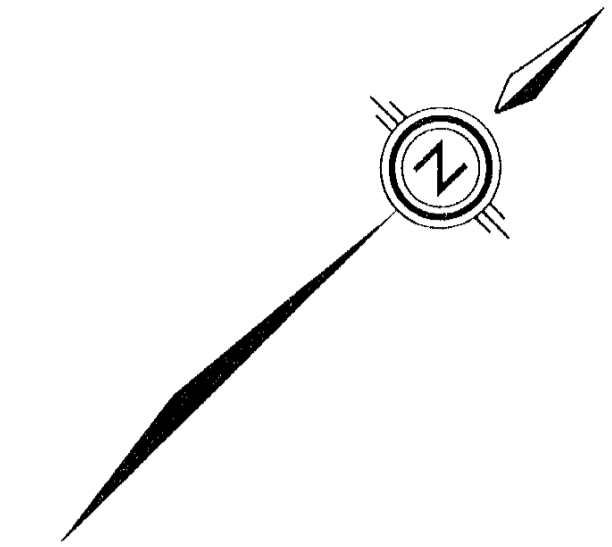
UNITED CAMBRIDGE MINES LTD.
STAR MINERAL CLAIMS, COPPER Cr. GRID, ATLIN M.D., B.C.

INDUCED POLARIZATION SURVEY
PROFILES OF APPARENT RESISTIVITY

SCALE 1 : 2,500

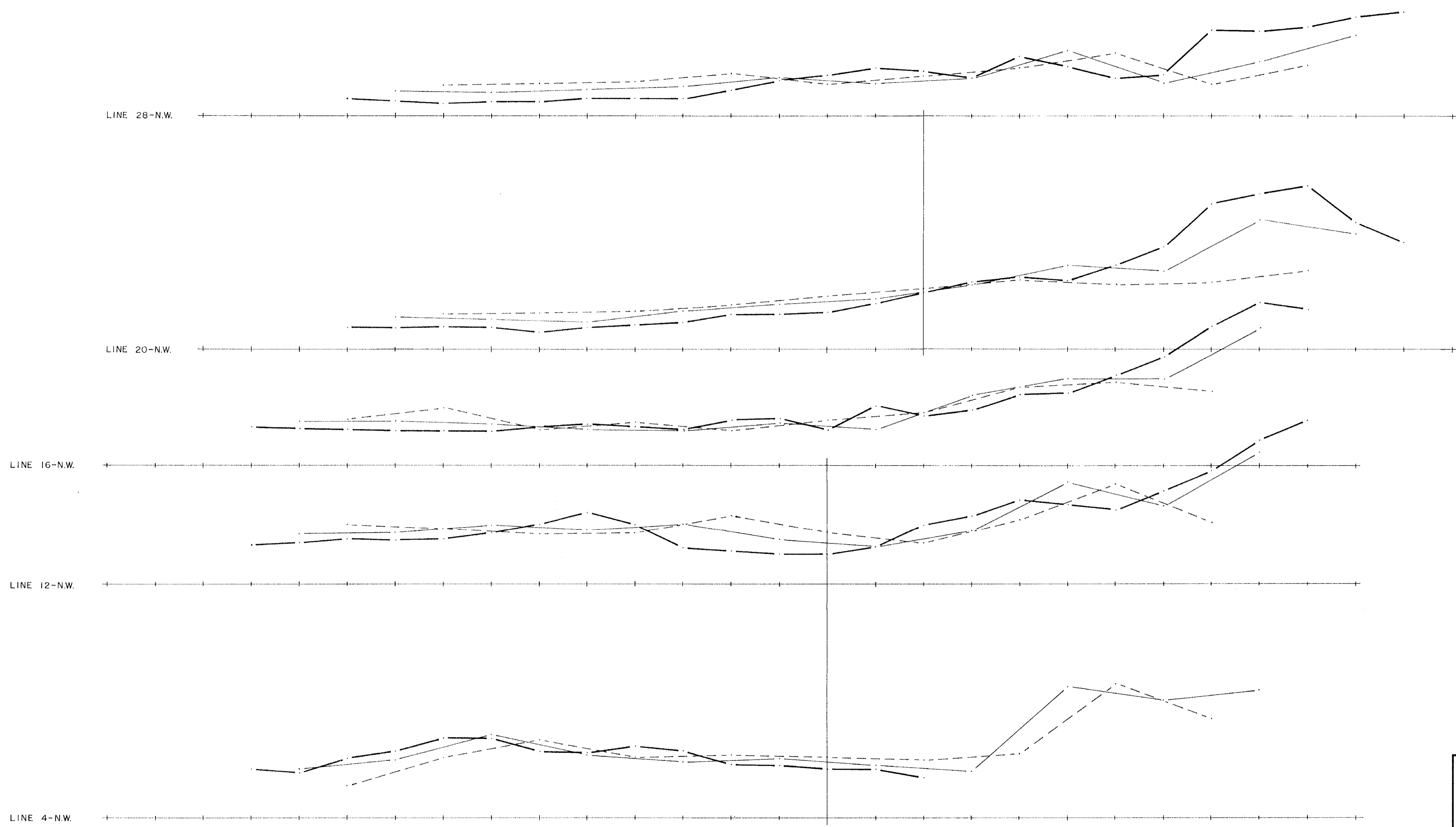
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SEPT.-OCT. - 1980

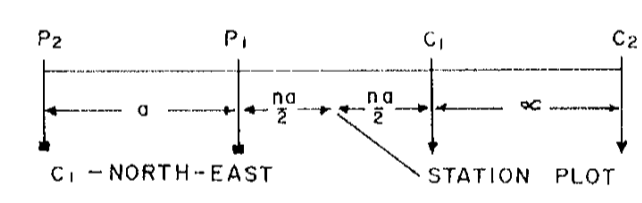


700-S.W. 600-S.W. 500-S.W. 400-S.W. 300-S.W. 200-S.W. 100-S.W. B.L. 100-N.E. 200-N.E. 300-N.E. 400-N.E. 500-N.E.

APPARENT RESISTIVITY CHARGABILITY SECTION



POLE - DIPOLE ARRAY



- a = 100 m, n = 1
a = 100 m, n = 2
a = 100 m, n = 3

MINERAL RESOURCES BRANCH ASSESSMENT DIVISION 8882 NO.

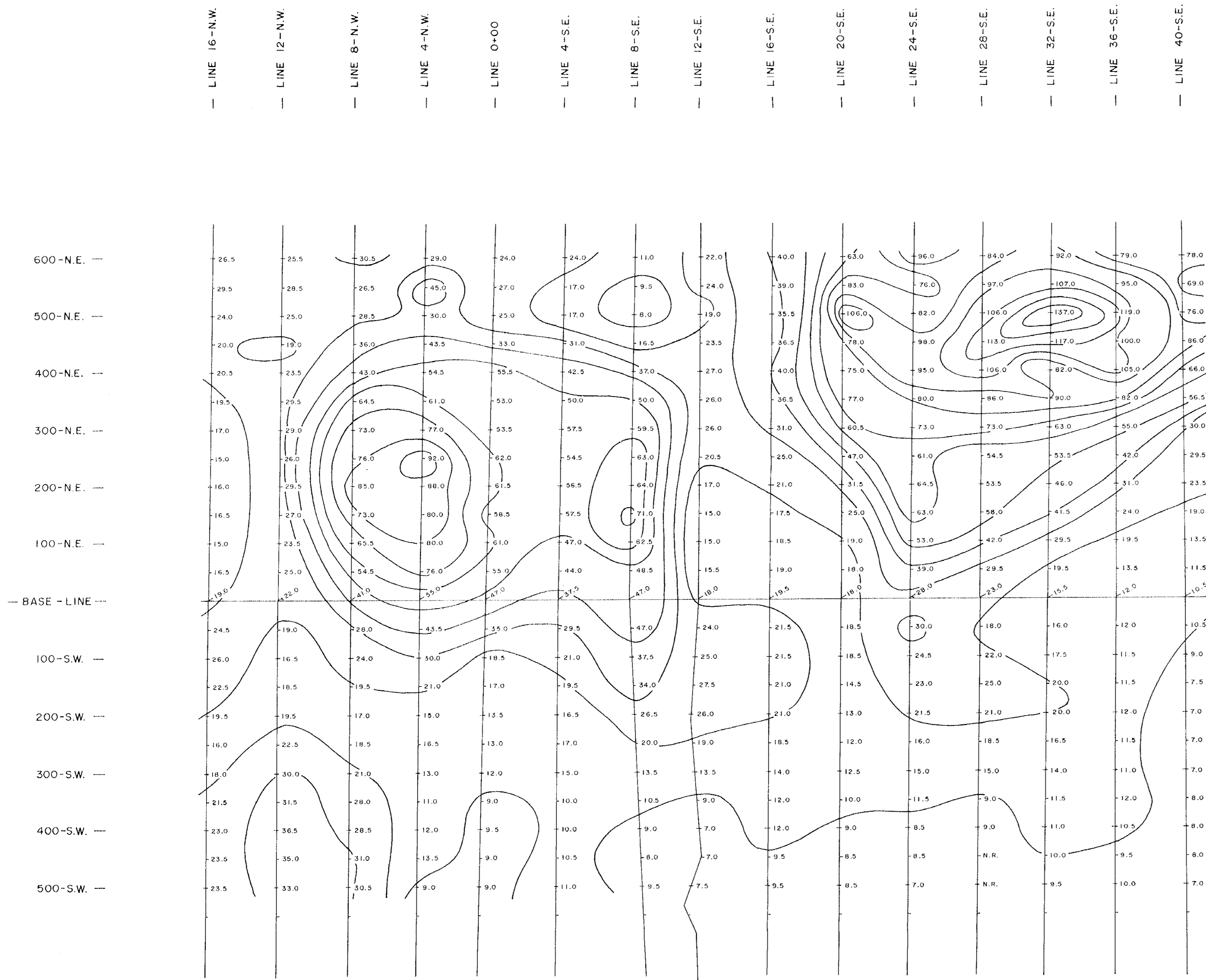


UNITED CAMBRIDGE MINES LTD. STAR MINERAL CLAIMS, COPPER Cr. GRID, ATLIN M.D., B.C.

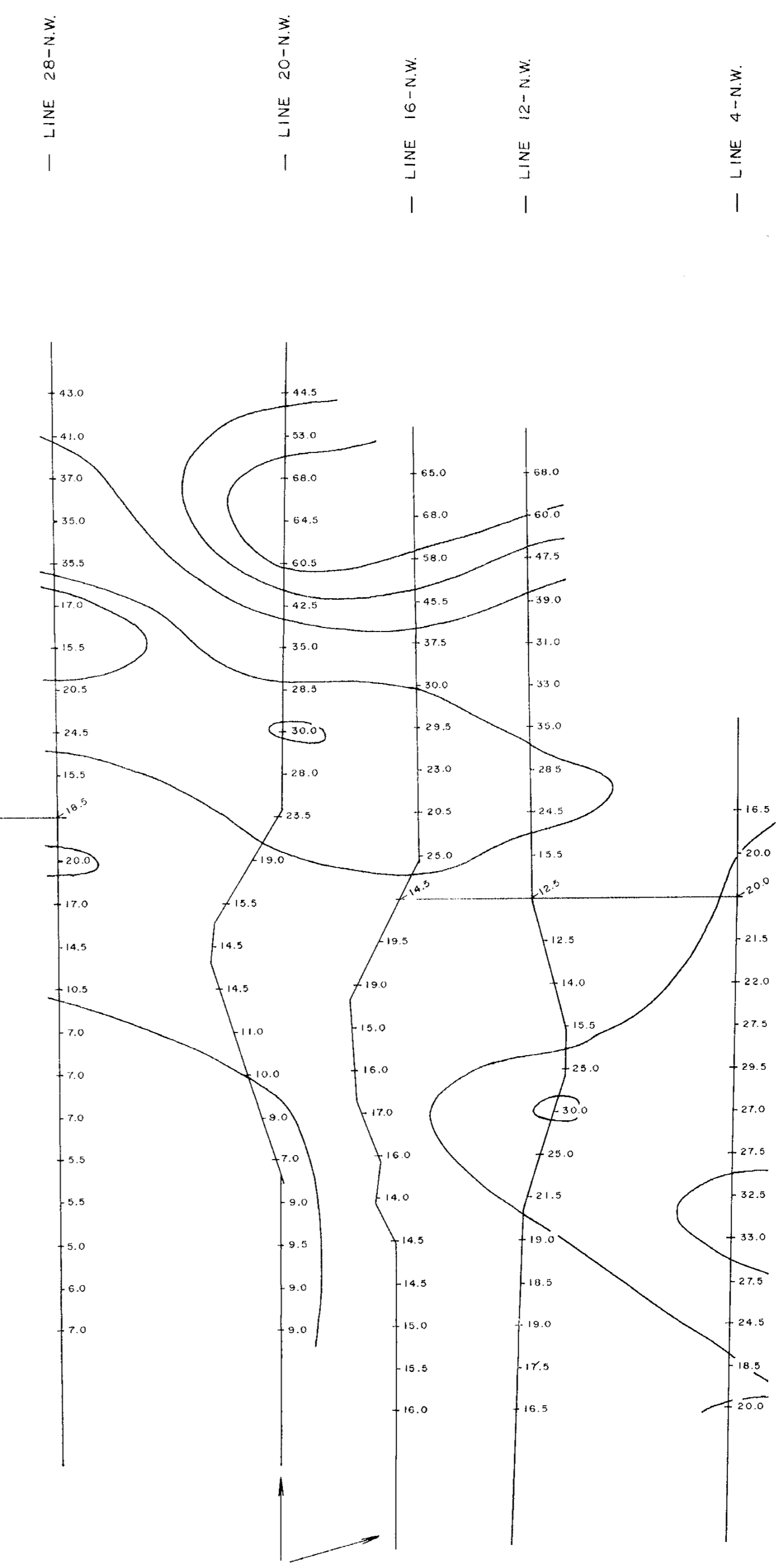
INDUCED POLARIZATION SURVEY PROFILES OF APPARENT CHARGABILITY

SCALE 1:2,500

700-S.W. 600-S.W. 500-S.W. 400-S.W. 300-S.W. 200-S.W. 100-S.W. B.L. 100-N.E. 200-N.E. 300-N.E. 400-N.E. 500-N.E.



DICK Cr. GRID COPPER Cr. GRID



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STAR MINERAL CLAIMS, ATLIN M.D., B.C.
INDUCED POLARIZATION SURVEY
CONTOURS OF APPARENT CHARGEABILITY
SCALE 1 : 5,000
MAP No. W-288-6
TO ACCOMPANY A REPORT BY
PETER E. WALCOTT, P. Eng.
PETER E. WALCOTT & ASSOC. LTD.
SEPT. - OCT. - 1980

