

2554

REPORT on  
THE COLORADO CORPORATION

Pat Claims

"GO"-GROUP - SKYLINE PROJECT

104-J-4, Atlin M.D., B.C.

GEOCHEMICAL RECONNAISSANCE

June 1969 - July 1970

58<sup>o</sup>, 131<sup>o</sup>, - S.W.

by

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2554 MAP

P.H. Sevensma, Ph.D., P.Eng.

PETER H. SEVENSMA CONSULTANTS LTD.

July 20, 1970

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NO. 2554 MAP

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104-J-4, Atlin M.D., B.C.  
GEOCHEMICAL RECONNAISSANCE  
June 1969 - July 1970

1. INTRODUCTION

Since June 1969, a number of reconnaissance soil sampling surveys have been carried out in the area of the Pat claims, which is located directly North of Hatchan Lake.

The Pat claims are at present the most Easterly claims of the group known as the Go group.

This report is essentially a record of the location of the assay data.

2. HISTORY

The area has previously been superficially worked on by Newmont Mining Corp. and by Kennecott Copper. Newmont located, by air-borne methods, a large high intensity magnetic anomaly North and West of this group. This condition is likely a reflection of an underlying magnetite-bearing diorite(?) <sup>ru</sup>intensive, as observed in the field.

3. PROPERTY

The Pat Group consists of the following 26 claims:

Pat 1-12  
Pat 17-30

4. MINERALIZATION

Jeff Lerner reported in 1969 the presence of 8 narrow showings, from 4" to 2' wide, all carrying chalcopyrite and/or magnetite. Assays

varied as follows:

Au :	.08 - .54 oz/t
Ag :	tr - .52 oz/t
Cu :	.6 - 11.6%

The unweighted arithmetical average grade of these assays is:

0.30 oz/t - Au
0.29 oz/t - Ag
4.71% - Cu

Of interest is the unusual amount of gold present.

In addition, intensely limonitized areas lie along the creek crossing the property; these areas increase in abundance around the forks of the creek near the Easterly termination of the magnetic high.

This area appeared to warrant further exploration work, and reconnaissance soil sampling was carried out in the first few months of the 1970 field season.

A list of all samples taken to date follows.

All assaying was done by Vancouver Geo-chemical Laboratories, 1521 Pemberton Avenue, North Vancouver; using Atomic Absorption and Techtron AA4 and AA5 instruments after hot extraction by  $\text{HNO}_3 + \text{HClO}_4$ , on 1.0 grams of -80 mesh portion in 1969 and on 0.5 grams of the -80 mesh portion in the 1970 assaying.

5. SAMPLE LOCATIONS

Sample locations and assay results have been reported as follows:

No. Samples	Tag Nos.	Assay-report No.	Date of Report
14	1223-1236	69-30-002	June 20, 1969
223	Lines 0-44N	69-35-007	Sept.11, 1969
7	23/5/70,1-7	70-82-006	June 11, 1970
8	24/5/70,1-8	70-82-006	June 11, 1970
11	25/5/70,1-11	70-82-006	June 11, 1970
14	26/5/70,1-14	70-82-006	June 11, 1970
16	AH 2/6/70,1-16	70-82-005	June 13, 1970
18	AH 3/6/70,1-18	70-82-005	June 13, 1970
64	Lines 59,61 & 63N	70-82-012	July 3, 1970
27	L A, 2-60N	70-82-012	July 3, 1970
30	L B, 2-60N	70-82-012	July 3, 1970
432	Samples		

All sample locations are shown schematically on Figure 1 on a scale of 1" = 1000'.

Sample results of wide spaced samples are shown on the same scale.

The results of closer spaced sampling are shown on separate detail maps at 1" = 500'.

6. RESULTS

a. Copper: The general area is one of high background copper in the soils.

In the areas of thin residual cover, this background is at present estimated at 100 ppm Cu.

In areas of thicker cover, possibly of a glacial nature, the background may be of the order of 20-60 ppm.

In general, areas of 101-300 ppm are of significance, but the really anomalous values are those of over 300 ppm Cu.

Areas of over 600 ppm are considered to reflect the more important zones of copper mineralization in place.

Detailed contouring is at present not realistic, and on the maps, the sample values or zones of 300-600 ppm and those over 600 ppm are indicated; these are the areas that warrant more systematic exploration.

b. Lead: In the Pat claim area, lead is not considered significant. In the Go claim area, values of over 50 ppm are considered threshold; they build up to centres of much higher values.

In the Pat area, most values are less than 25 ppm.

c. Zinc: There is high copper with and without zinc of over 300 ppm.

The general zinc background is less than 100 ppm.

The 100 ppm zinc contour may be of significance, and the over 300 ppm zinc contours may broadly outline areas of copper and zinc mineralization, but in the other areas there is very little zinc compared to the copper.

No definite conclusions or guide-lines can as yet be derived from the zinc values.

d. Silver: Used only in the September 1969 survey, this metal has not proven very useful.

Consistent values of 2.0 - 2.5 ppm are associated with higher copper-zinc.

Where these latter metals are closer to background, silver values vary mostly from 0-2.0 ppm.

e. Molybdenum: Normal background in the area is from 0 - 3 ppm, threshold from 3 - 5 ppm.

Values higher than 5 ppm Mo accompanying high copper may be indicative of a nearby more acid int<sup>er</sup>sive, and therefore be of interest.

No definite proof of this has yet been obtained.

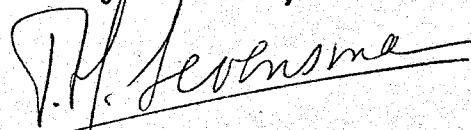
7. SUMMARY AND RECOMMENDATIONS.

The areas of over 600 ppm are considered to be of importance. Linecutting, systematic soil-sampling and geological mapping along the cut grids in these areas are recommended.

The area of lines 59, 61 and 63N and extending to the East and North into the red "gossan" is of most importance, especially if, as suspected, this is a pyritized area where copper could be expected to be leached.

Additional staking to the North is required.

Respectfully submitted,



P.H. Sevensma, Ph.D., P.Eng.  
PETER H. SEVENSMA CONSULTANTS LTD.

Vancouver, B.C.  
July 20, 1970  
July



THE GOVERNMENT OF  
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
VICTORIA

WHEN REPLYING PLEASE REFER TO  
FILE NO. 167 lin

September 2, 1971

Mining Recorder,  
Box 100,  
Atlin, B. C.

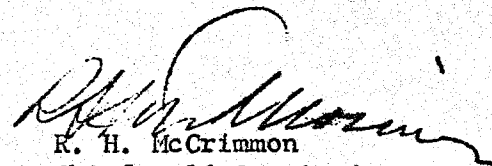
Dear Mr. Lancaster:

Re: PAT Mineral Claims  
Geochemical Report

Enclosed for your files is a copy of the above-noted report submitted by The Colorado Corporation.

It is no longer to be treated as confidential, having been so held for one year, and is returned to you for reference purposes by anyone interested in it. The second copy is available for reference here. For your information, a list of all such reports received and released from time to time is published in the Annual Report of the Minister of Mines and Petroleum Resources.

Yours very truly,

  
R. H. McCrimmon  
Chief Gold Commissioner

Enc.

bw





Cost Analysis re: Magnetometer Survey for Imperial Metals & Power Ltd.

Field time 2 man crew @ \$115 per day July 6 to 12 (7 days)	=	\$ 805.00
Field maintenance, meals etc..... \$7.50 /man day (14)	=	105.00
Truck rental .....	=	90.00
Magnetometer rental, flagging and sundry supplies	=	100.00
		-----
		\$1100.00

Report and map compilation including disbursements = \$ 400.00

TOTAL = \$1500.00

*Reed Chapman*

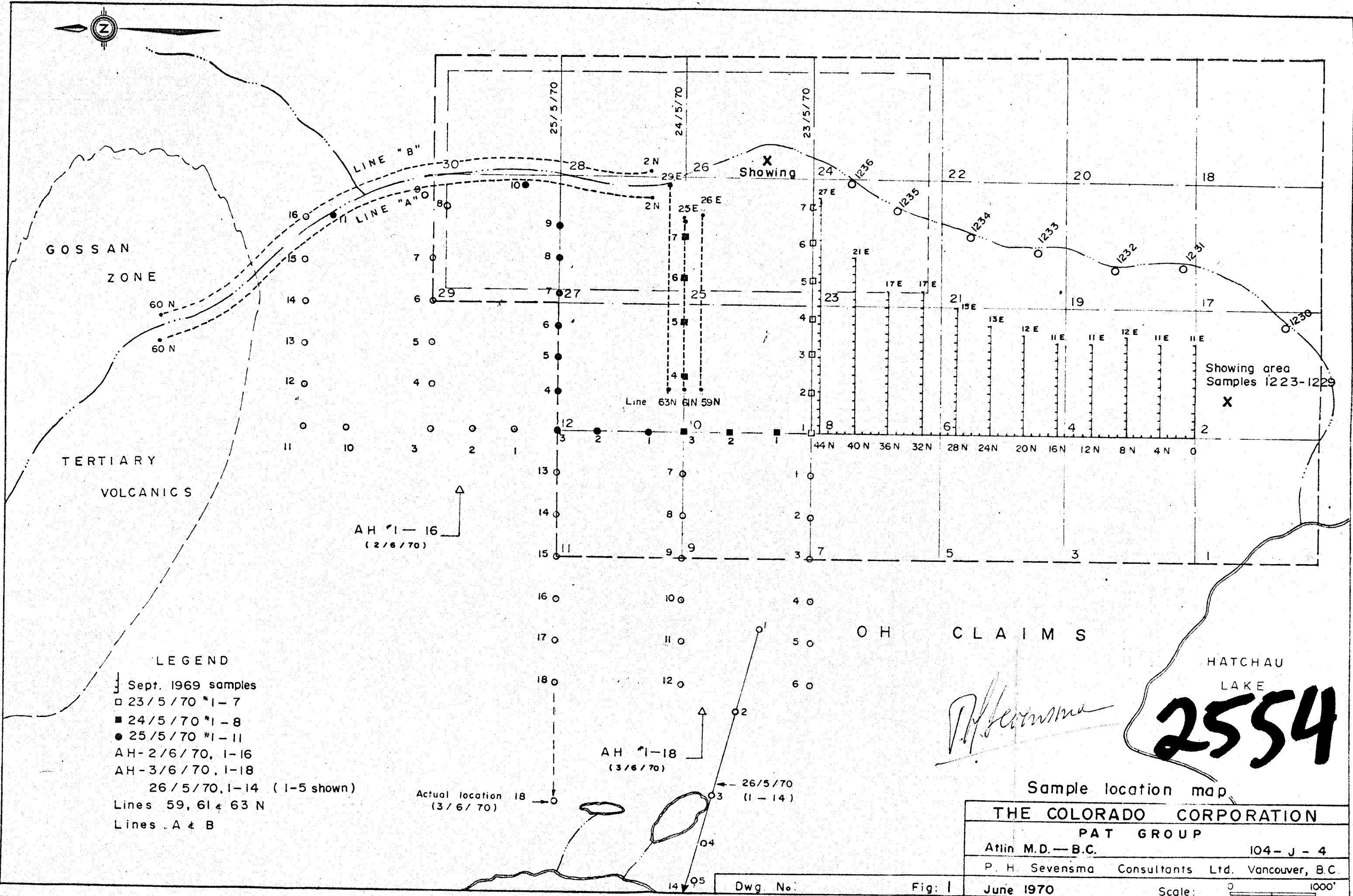
Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *18th*  
day of *August* 1970, A.D.

*R.J. Billingsley*

*Spelina*

Subscribing Recorder

A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.



LEGEND

- Sept. 1969 samples
- 23/5/70 \*1-7
- 24/5/70 \*1-8
- 25/5/70 \*1-11
- AH #1-16 (2/6/70)
- AH-3/6/70, 1-18
- 26/5/70, 1-14 (1-5 shown)
- Lines 59, 61 & 63 N
- Lines A & B

AH #1-16 (2/6/70)

AH #1-18 (3/6/70)

Actual location 18 (3/6/70)

Dwg. No.

Fig: 1

THE COLORADO CORPORATION	
PAT GROUP	
Atlin M.D.—B.C.	104-J-4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
June 1970	Scale: 0 1000'

*P. H. Sevensma*

HATCHAU LAKE  
**2554**

Sample location map

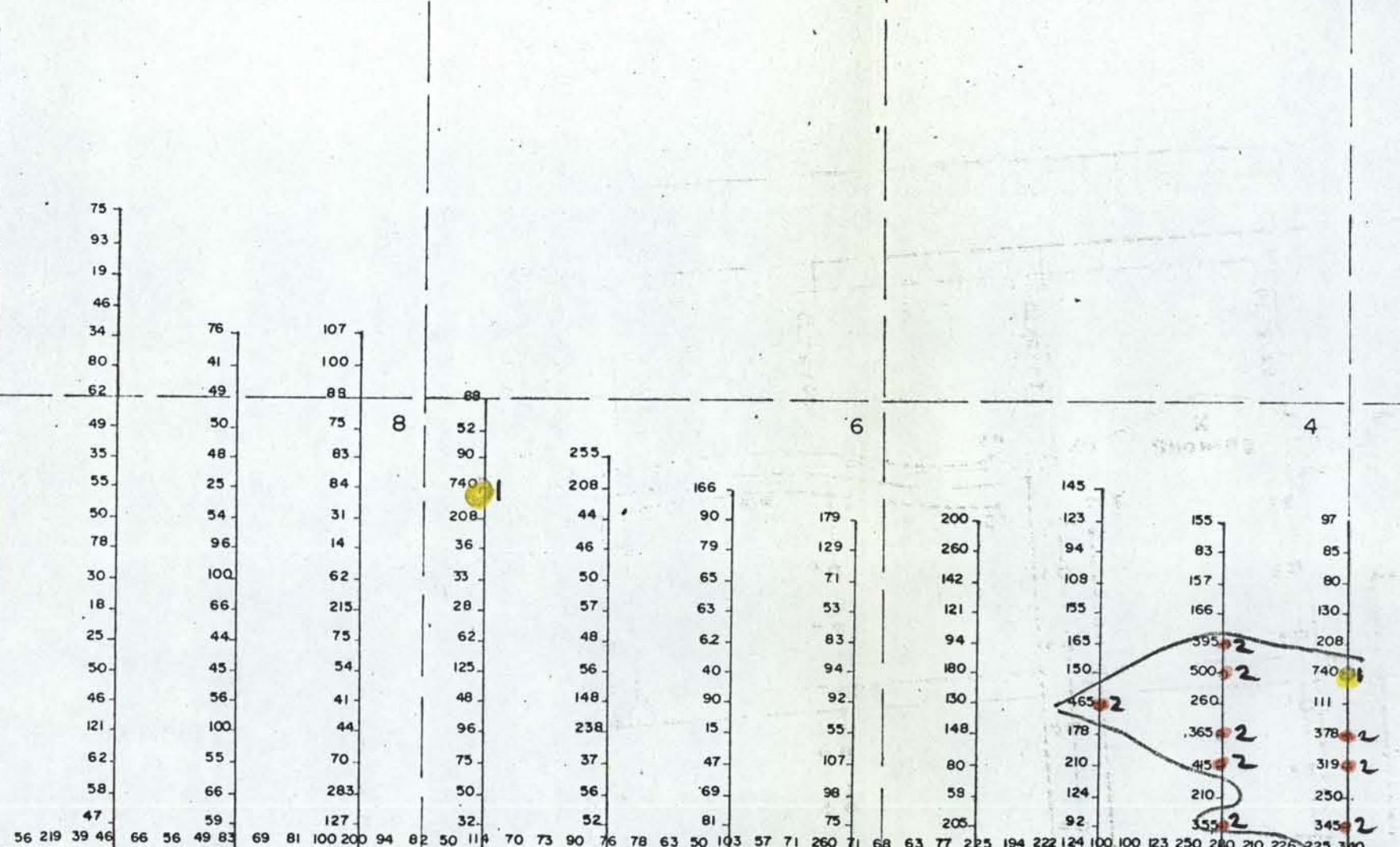




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NO. 2554 MAP #2

25 23 21 19 17

207  
62  
74  
59  
60  
58  
60  
64  
101  
175  
280  
20  
107  
36  
53  
36  
64  
17  
36  
73  
86  
195  
14  
44  
68  
54  
52  
76



LEGEND

2  301 - 600 p.p.m. Cu.

1  > 600 p.p.m. Cu.

**2554**

*J.H. Sevensma*

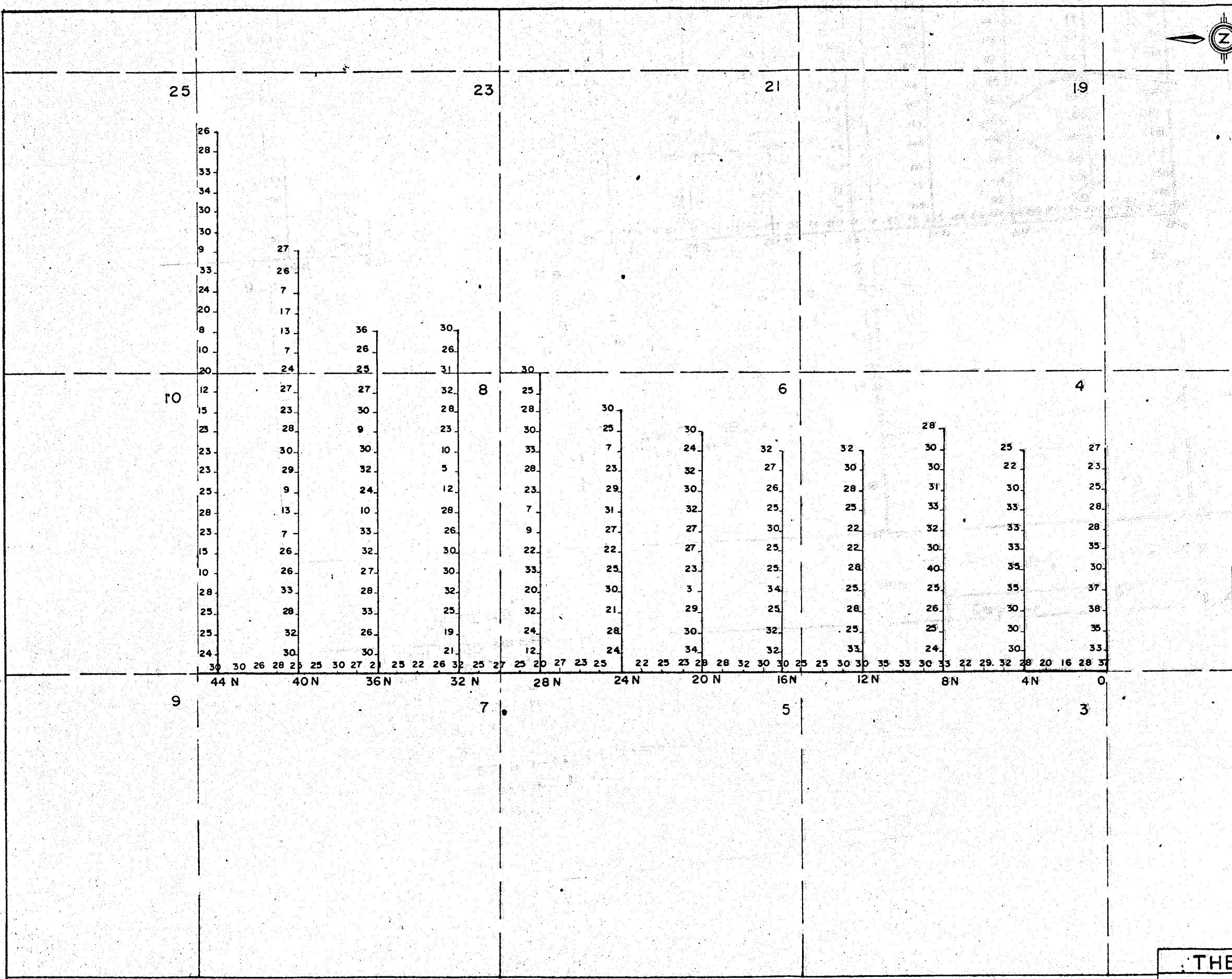
Cu. Plot

THE COLORADO CORPORATION  
PAT GROUP — GEOCHEMICAL MAP  
Atlin M.D.— B.C. 104 -J-4  
P. H. Sevensma Consultants Ltd. Vancouver, B.C.  
June 1970 Scale: 0 500'

Sept. 11, 1969. V.G.Lab. no. 69-35-087

Dwg. No. Fig. 2





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ASSESSMENT REPORT  
NO. 2554 MAP #3

**2554**  
*H. Sevensma*

Pb. Plot

THE COLORADO CORPORATION  
PAT GROUP — GEOCHEMICAL MAP  
Atlin M.D.—B.C. 104-J-4  
P. H. Sevensma Consultants Ltd. Vancouver, B.C.  
June 1970 Scale: 0 300'

Sept. 11, 1969 . V.G.Lab. no. 69-35-007

Dwg. No. Fig. 3



25

23

21

19

17

108  
95  
147  
105  
130  
102  
13  
90  
116  
33  
8  
6  
30

165  
220  
30  
47  
265  
10  
74

140  
245  
315

111  
120  
415

8

205  
220  
73  
11  
16  
16  
76  
145  
183  
285  
163  
48  
61  
77

6

295  
220  
100  
109  
84  
41  
12  
53  
95  
85  
175  
124  
6

164  
175  
140  
168  
161  
143  
80  
64  
78  
125  
142  
68

186  
272  
185  
295  
180  
132  
60  
4  
105  
165  
108

6

115  
139  
225  
128  
162  
146  
70  
115  
64  
72  
128

4

118  
210  
164  
150  
93  
111  
81  
272  
180  
124  
177

2

138  
123  
265  
135  
180  
152  
93  
74  
112  
295  
275

4

182  
108  
215  
200  
135  
193  
126  
77  
74  
163  
310

2

143  
198  
193  
122  
98  
79  
48  
147  
490  
208  
149

10

9

44 N

40 N

36 N

32 N

28 N

24 N

20 N

16 N

12 N

8 N

4 N

0

9

7

5

3

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NO. 2554 MAP #4

*P. H. Sevensma*

Zn. Plot

**2554**

Sept. 11, 1969. V.G. Lab. no. 69-35-007

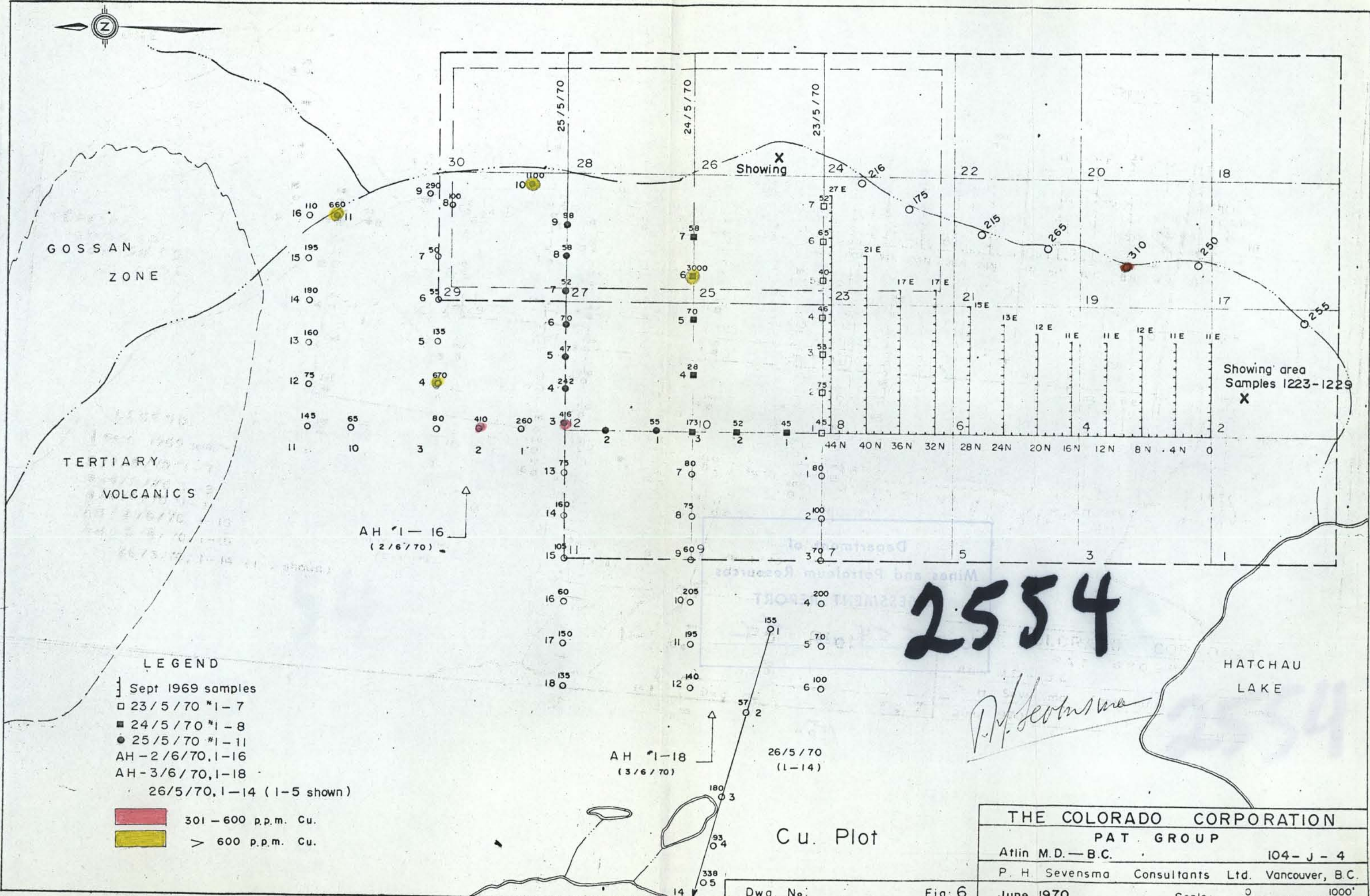
Dwg. No.:

Fig: 4

THE COLORADO CORPORATION  
PAT GROUP — GEOCHEMICAL MAP  
Atlin M.D.— B.C. 104-J-4  
P. H. Sevensma Consultants Ltd. Vancouver, B.C.  
June 1970 Scale: 0 500'







GOSSAN ZONE

TERTIARY VOLCANICS

X Showing

Showing area Samples 1223-1229 X

2554

*P.H. Sevensma*

HATCHAU LAKE

- LEGEND
- Sept 1969 samples
  - 23/5/70 #1-7
  - 24/5/70 #1-8
  - 25/5/70 #1-11
  - AH-2/6/70, 1-16
  - AH-3/6/70, 1-18
  - 26/5/70, 1-14 (1-5 shown)

- 301 - 600 p.p.m. Cu.
- > 600 p.p.m. Cu.

AH #1-18 (3/6/70)

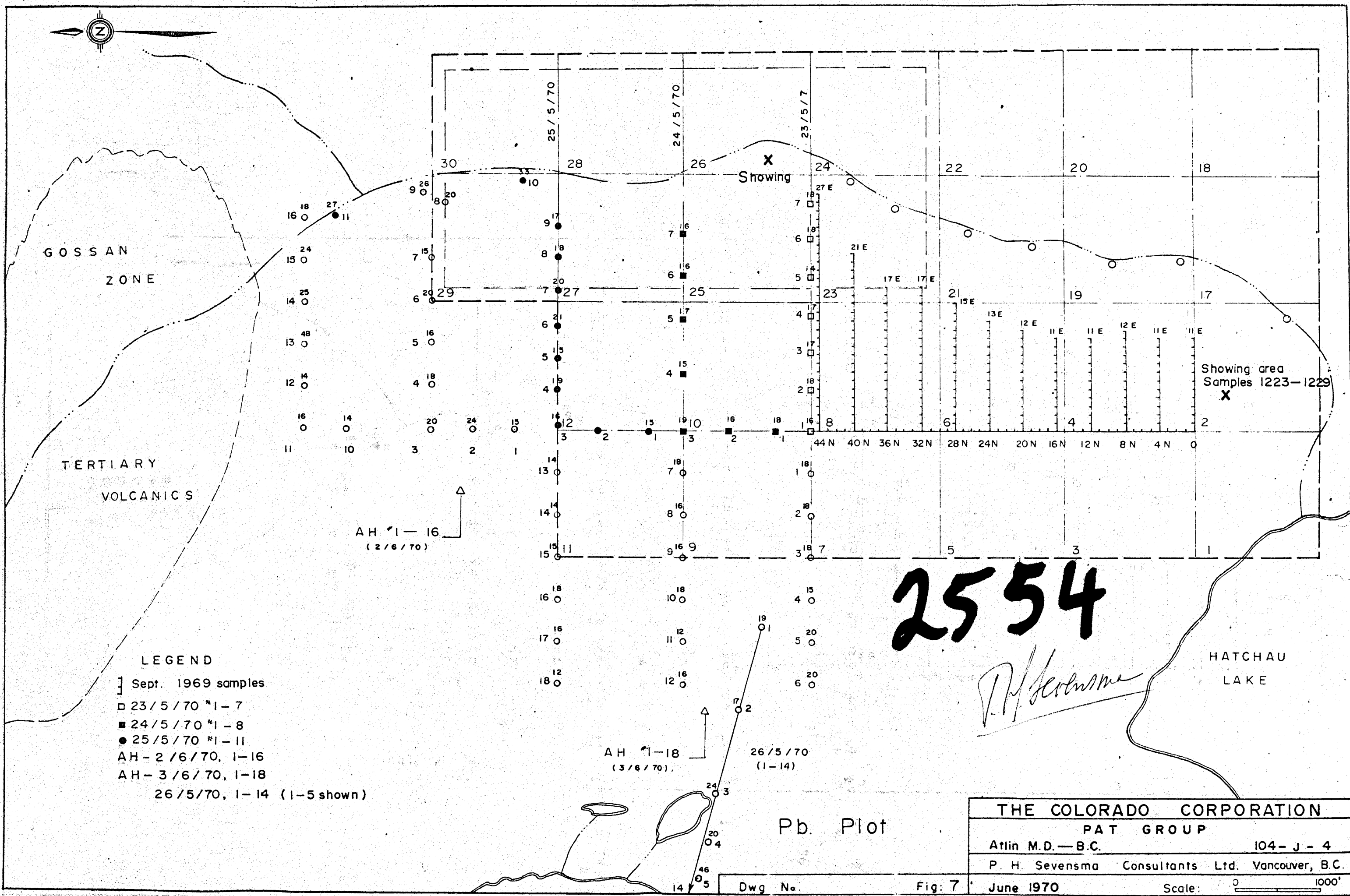
26/5/70 (1-14)

C u. Plot

THE COLORADO CORPORATION	
PAT. GROUP	
Atlin M.D.—B.C.	104-J-4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
June 1970	Scale: 0 1000'

Dwg. No. Fig: 6





GOSSAN ZONE

TERTIARY VOLCANICS

X Showing

Showing area Samples 1223-1229 X

2554

*P.H. Sevensma*

HATCHAU LAKE

Pb. Plot

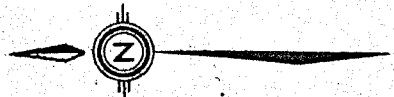
- LEGEND
- ] Sept. 1969 samples
  - 23/5/70 \*1-7
  - 24/5/70 \*1-8
  - 25/5/70 \*1-11
  - AH-2/6/70, 1-16
  - AH-3/6/70, 1-18
  - 26/5/70, 1-14 (1-5 shown)

AH \*1-18 (3/6/70)

26/5/70 (1-14)

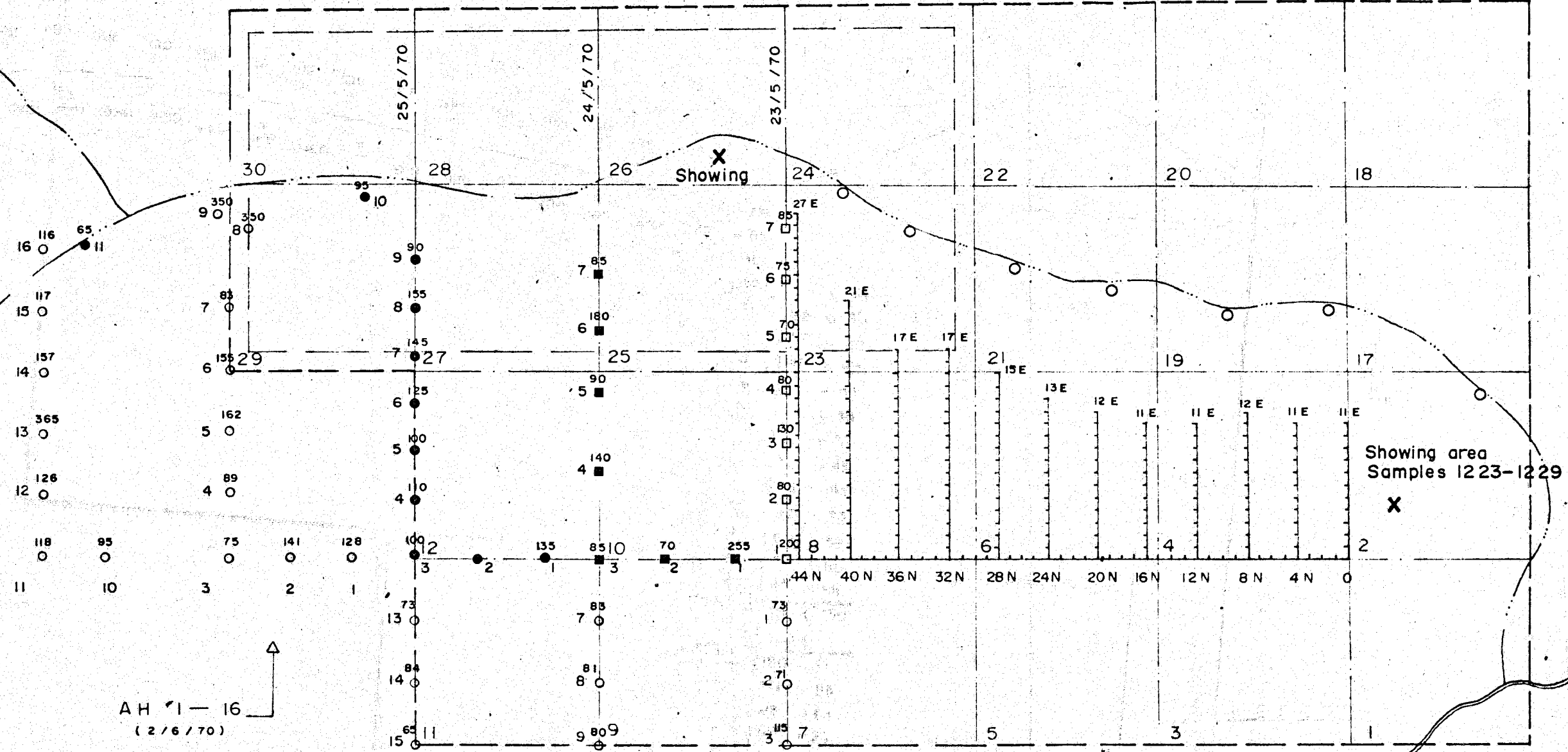
THE COLORADO CORPORATION	
PAT GROUP	
Atlin M.D.—B.C.	104-J-4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
Dwg No.	Fig: 7
June 1970	Scale: 0 1000'





GOSSAN  
ZONE

TERTIARY  
VOLCANICS



AH #1-16  
(2/6/70)

**2554**

*P. H. Sevensma*

HATCHAU  
LAKE

- LEGEND
- Sept. 1969 samples
  - 23/5/70 #1-7
  - 24/5/70 #1-8
  - 25/5/70 #1-11
  - AH-2/6/70, 1-16
  - AH-3/6/70, 1-18
  - 26/5/70, 1-14 (1-5 shown)

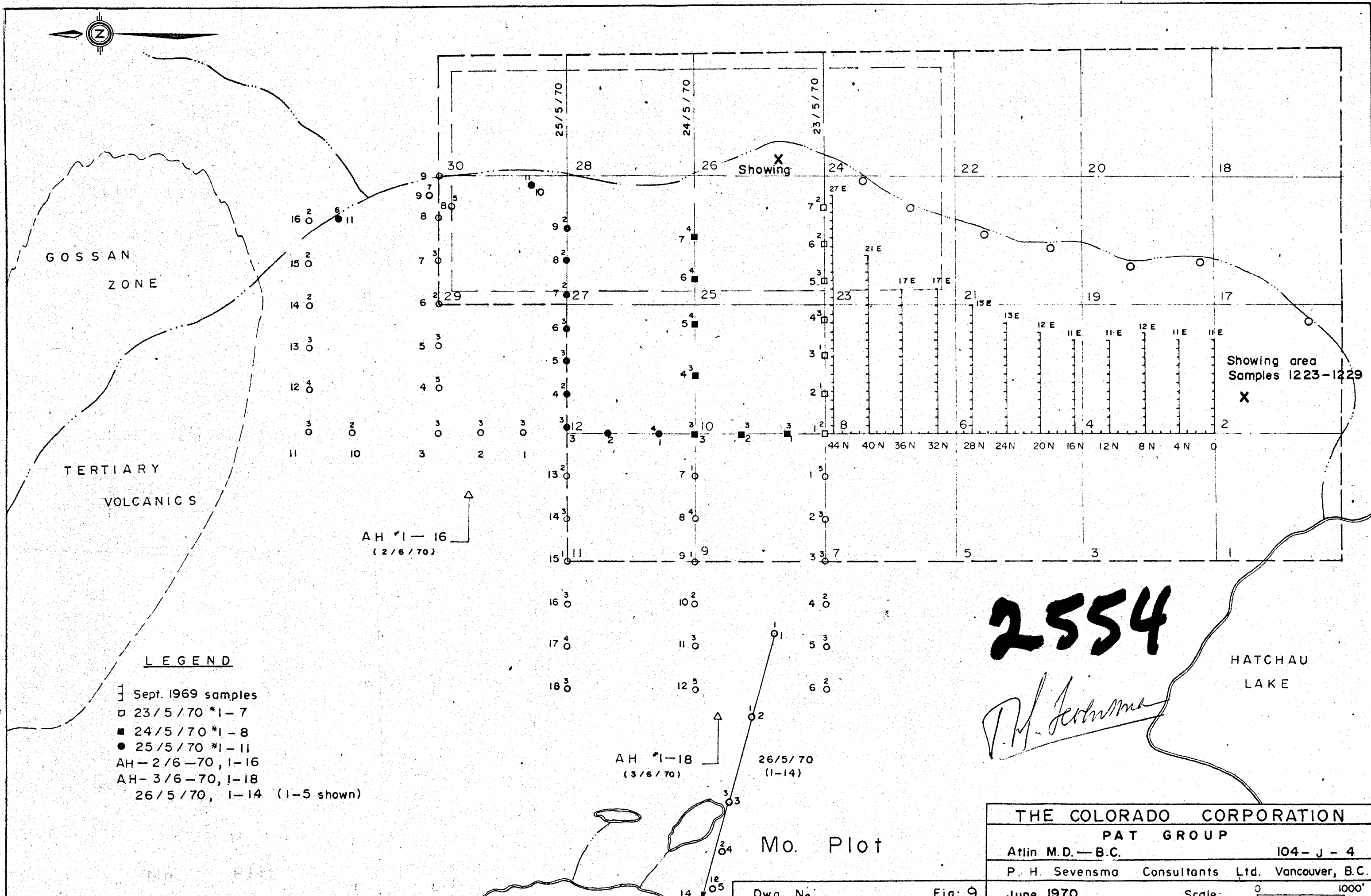
AH #1-18  
(3/6/70)

26/5/70  
(1-14)

Zn. Plot

THE COLORADO CORPORATION	
PAT GROUP	
Atlin M.D.—B.C.	104-J-4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
June 1970	Scale: 0 1000'

Dwg. No. Fig: 8



GOSSAN ZONE

TERTIARY VOLCANICS

AH #1-16  
(2/6/70)

AH #1-18  
(3/6/70)

26/5/70  
(1-14)

**LEGEND**

- ⌋ Sept. 1969 samples
- 23/5/70 \*1-7
- 24/5/70 \*1-8
- 25/5/70 \*1-11
- AH-2/6-70, 1-16
- AH-3/6-70, 1-18
- 26/5/70, 1-14 (1-5 shown)

**2554**

*P.H. Sevensma*

HATCHAU LAKE

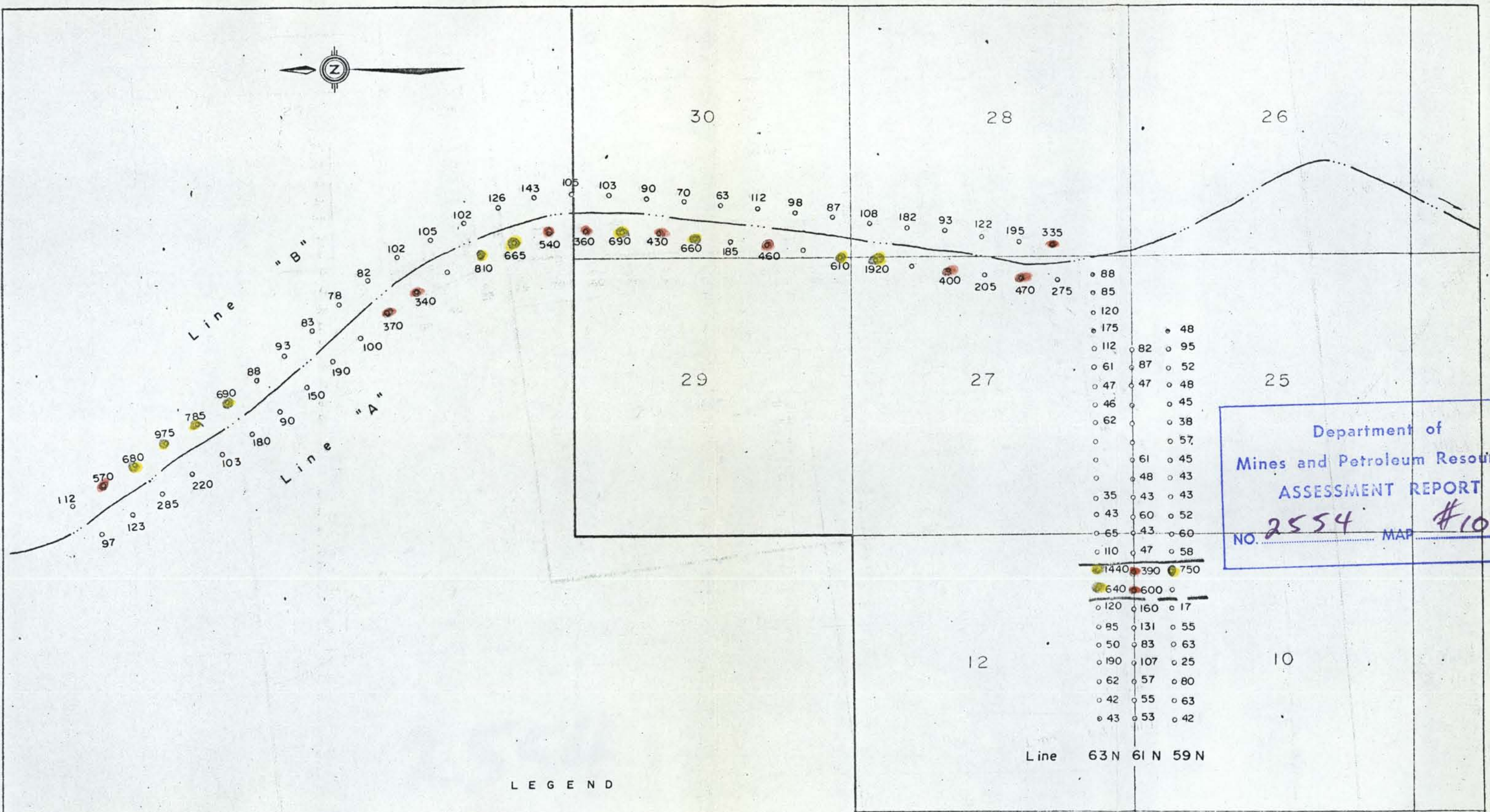
Mo. Plot

THE COLORADO CORPORATION	
PAT GROUP	
Atlin M.D.—B.C.	104-J-4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
June 1970	Scale: 0 1000'

Dwg. No.:

Fig: 9





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NO. 2554 MAP # 10

L E G E N D

- 301 - 600 p.p.m. Cu.
- > 600 p.p.m. Cu.

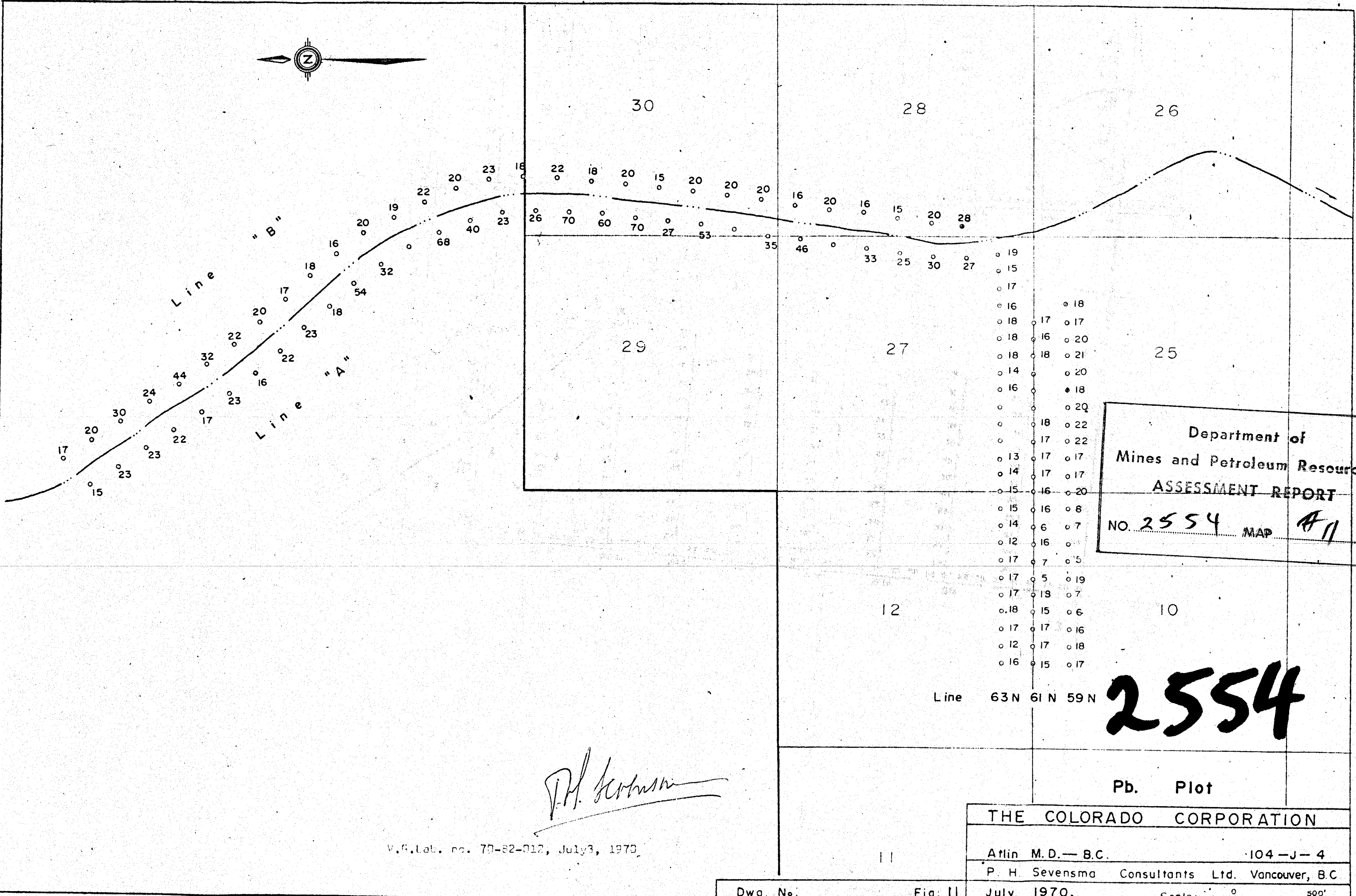
V. G. Lab. no. 70-82-012, July 3, 1970

*V.G. Sevensma*

THE COLORADO CORPORATION	
Atlin M.D.—B.C.	104-J-4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
July 1970,	Scale: $\frac{1}{500}$

Dwg. No.                      Fig: 10





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NO. 2554 MAP #11

*P.H. Sevensma*

V.G. Lab. no. 70-82-012, July 3, 1970

Line 63 N 61 N 59 N

**2554**

Pb. Plot

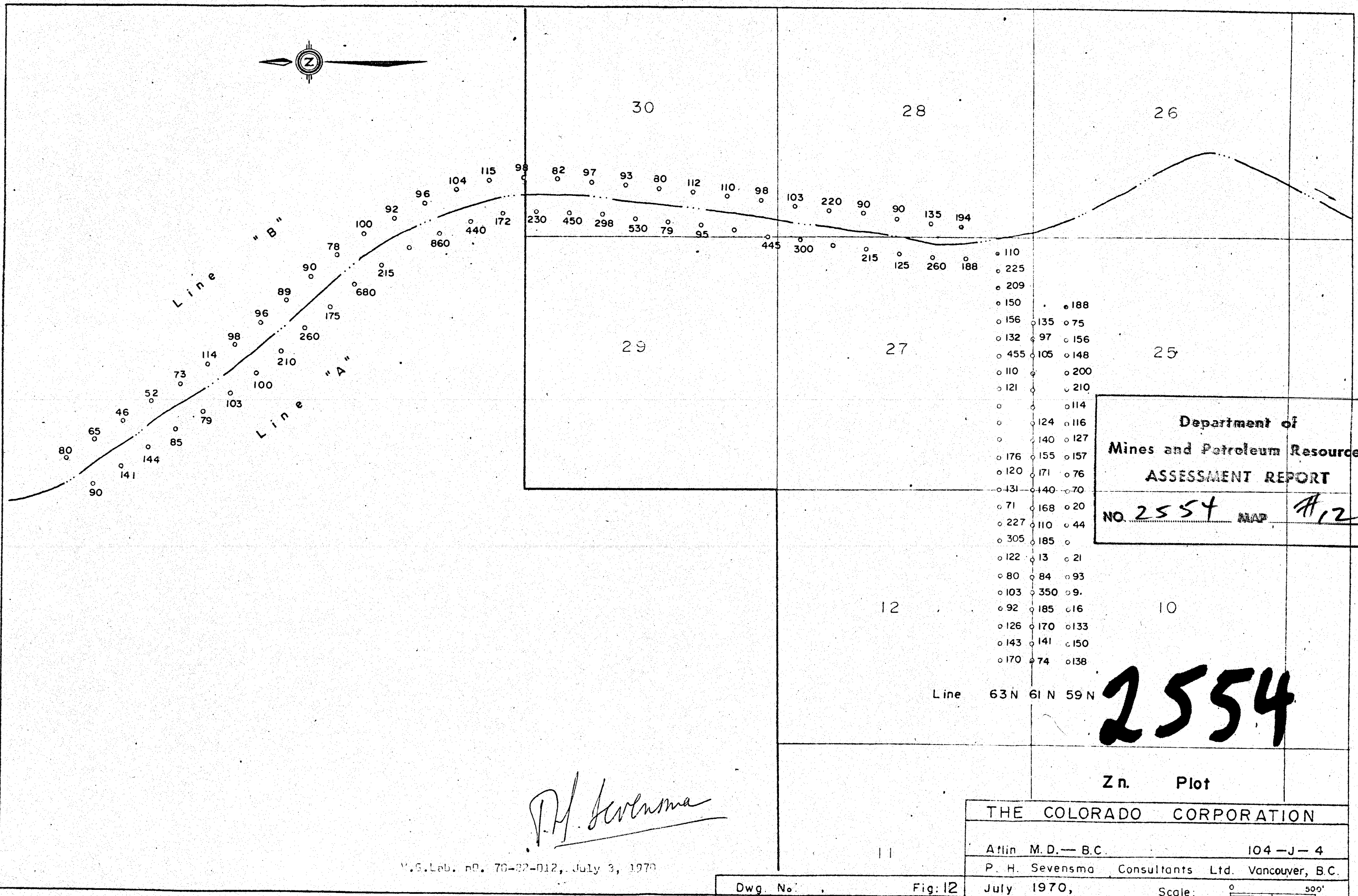
THE COLORADO CORPORATION

Atlin M.D.—B.C. 104—J—4

P. H. Sevensma Consultants Ltd. Vancouver, B.C.

July 1970, Scale: 0 500'

Dwg. No. Fig. 11



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 NO. 2554 MAP #12

**2554**

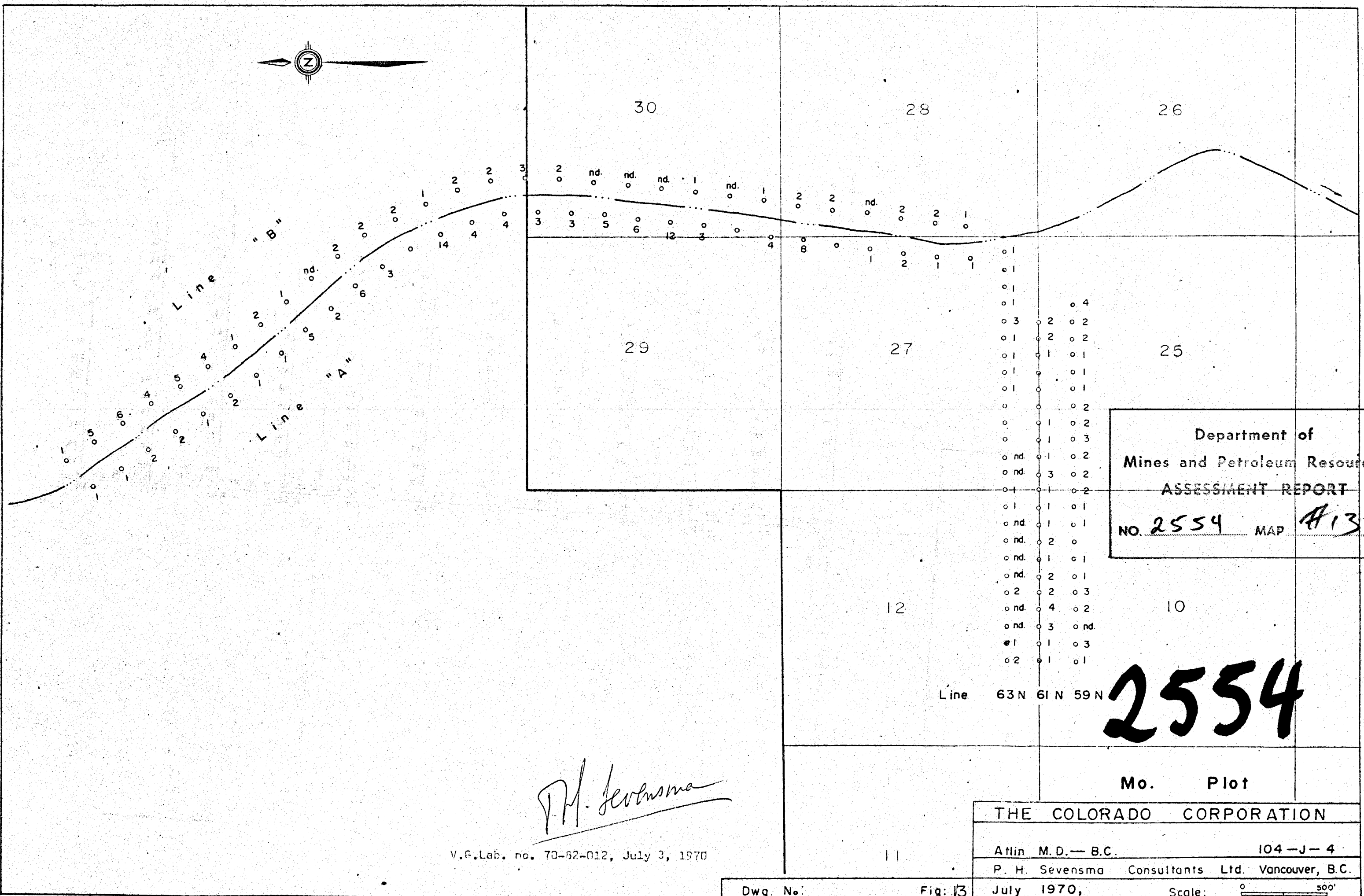
Zn. Plot

THE COLORADO CORPORATION	
Atlin M.D.—B.C.	104—J—4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
July 1970,	Scale: 0 500'

*P. H. Sevensma*

U.S. Lab. no. 70-82-012, July 3, 1970

Dwg. No. Fig: 12



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**2554**

Mo. Plot

THE COLORADO CORPORATION	
Atlin M.D.—B.C.	104—J—4
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
July 1970,	Scale: 0 500'

*P. H. Sevensma*

V.G.Lab. no. 70-62-012, July 3, 1970

Dwg. No. Fig: 13