

# 2576

## REPORT ON GEOCHEMICAL SURVEY

OF CLAIRE 1-4 MINERAL CLAIM FRACTIONS  
(RECORD NUMBERS 13290K TO 13292K, 13369K)

LOCATED ON RUBY CREEK  
ATLIN MINING DIVISION, BRITISH COLUMBIA

for

Canadian Johns-Manville Company, Limited  
Exploration Department  
P.O. Box 1500  
Asbestos, Quebec

Covering: Claire 1 to 4 Fractions

Location: 1) 59°43'N, 133°45'W  
2) N.T.S. Map 104N - Atlin  
3) 15 Miles Northeast of Atlin  
Atlin Mining Division, B.C.



Expiry Date: Jan. 28, 1971

E.L. Mann  
P.O. Box 1500  
Asbestos, Quebec

August 28, 1970

H.K. Conn  
P.O. Box 1500  
Asbestos, Quebec

## TABLE OF CONTENTS

	<u>Page No.</u>
INTRODUCTION	1
PHYSIOGRAPHY	1
VEGETATION	2
GEOLOGY	2
MINERALIZATION	2
<u>GEOCHEMISTRY</u>	
Field Methods	3
Analytical	4
Classification and Presentation of Data	5
Interpretation of Results	6
Cu	6
Zn	6
Pb	6
Ag	6
Mo	7
Ni	7
Mn	8
Au	8
Sn	8
W	9
CONCLUSIONS	9
RECOMMENDATIONS	9

## TABLE OF CONTENTS

APPENDIX 1: STATEMENT OF EXPENDITURES

APPENDIX 2: STATEMENT OF QUALIFICATIONS: E. L. Mann & H. K. Conn.

APPENDIX 3: GEOCHEMICAL SOIL DATA SHEETS.

### LIST OF MAPS

Following  
Page No.

#1 Index Location Map - Claire Mineral Fractions Ruby Creek Area - Atlin, B.C. Scale 1": 8 miles	1
#2 Soil Sample Locations Claire 1-4 - Au distribution	In envelope
#3 Soil Sample Locations Claire 1-4 - Zn distribution	"
#4 Soil Sample Locations Claire 1-4 - Pb distribution	"
#5 Soil Sample Locations Claire 1-4 - Ag distribution	"
#6 Soil Sample Locations Claire 1-4 - Mo distribution	"
#7 Soil Sample Locations Claire 1-4 - Ni distribution	"
#8 Soil Sample Locations Claire 1-4 - Mn distribution	"
#9 Soil Sample Locations Claire 1-4 - <sup>C</sup> Au distribution	"
#10 Soil Sample Locations Claire 1-4 - Sn distribution	"
#11 Soil Sample Locations Claire 1-4 - W distribution	"

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 2576 MAP

## INTRODUCTION:

This report describes the results of a geochemical survey carried out over the Claire mineral claim fractions 1 to 4, (Record Nos. 13290K - 13292K, 13369K) staked by Canadian Johns-Manville Company Limited and presently included in an option agreement signed with Adanac Mining Company.

The 4 Claire claim fractions are located about 16 miles northeast of Atlin on the northeast side of Ruby Creek Valley, four miles north of Surprise Lake in the Atlin Mining Division of British Columbia. The geographic co-ordinates of these claims are 59 deg. 43'N and 133 deg 45'W.

Access to the claim area can be gained by motor vehicle along the Atlin-Surprise Lake-Ruby Creek road from Atlin. The Claire claim fractions all lie within half a mile of this road but are not contiguous with each other.

## PHYSIOGRAPHY:

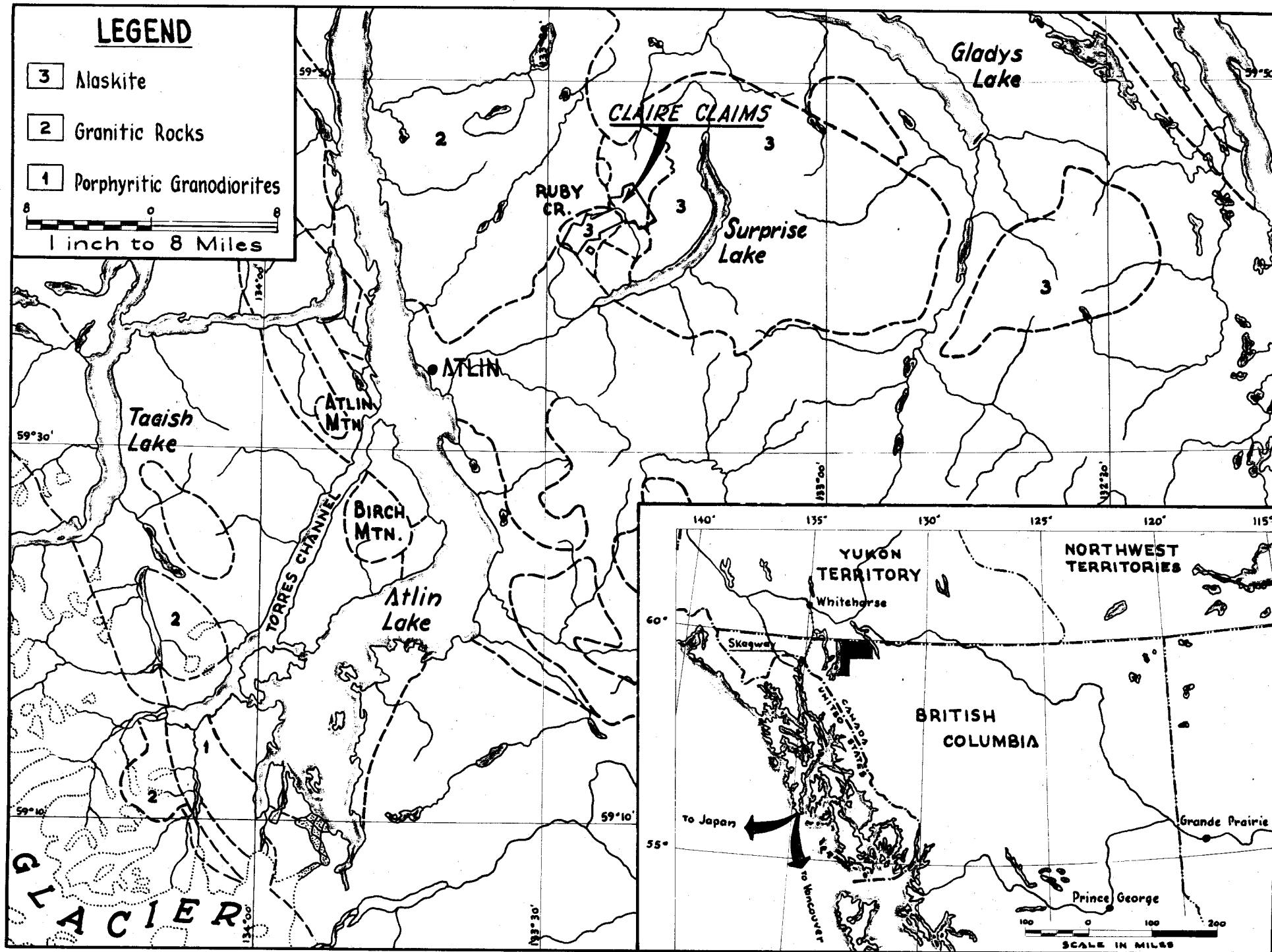
The Claire 1-3 mineral fractions are located on the floor of the northeast fork of Ruby Creek which drains southwestwards from the southern slopes of Mt. Barham. The Claire 4 fraction lies a short distance to the west of these and straddles the lower slopes of the prominent east-west spur immediately north of the main fork of Ruby Creek.



# LEGEND

- 3 Alaskite
- 2 Granitic Rocks
- 1 Porphyritic Granodiorites

8 0 8  
1 inch to 8 Miles



#### PHYSIOGRAPHY:

The Claire 1-3 claim fractions lie at elevations ranging from approximately 4300 to 4500 feet on the valley floor while Claire 4 is at an elevation of about 4900 feet. Most of the surrounding mountains have peaks well in excess of 6000 feet.

#### VEGETATION:

The Claire 1-4 mineral claim fractions are located above the tree line. Vegetation is generally limited to alpine grasses, buck-brush and willows but a few scattered balsams are found on Claire No. 1 which is also partly located over swampy ground.

#### GEOLOGY:

No rock exposures are present on any of the Claire 1-4 mineral claim fractions as the area is entirely underlain by Pleistocene and recent glacial drift and alluvium.

Exposures to the east, north and west of the claims include greenstones and minor sediments of the Cache Creek Group which also contain large amounts of intrusive ultrabasic rocks. Alaskite and associated rocks of the Surprise Lake-Ruby Creek batholith are exposed to the southwest across the Ruby Creek Valley.

#### MINERALIZATION:

The alaskite and associated rocks form the host rocks for the extensive molybdenite mineralization located near the headwaters of Ruby Creek. This mineralization is currently being explored for possible mining by Adanac Mining Company.

MINERALIZATION: (cont'd)

Due to the extensive cover of glacial drift and alluvium, it is not possible to determine whether the Ruby Creek alaskite extends sufficiently far northeastwards to underlie any portion of the Claire claims. Consequently, it is also impossible to determine whether there is any associated mineralization on these claims.

GEOCHEMISTRY:

Field Methods:

Initial geochemical sampling in the area was commenced in 1968 and was confined to reconnaissance stream sediment sampling of the main drainage channels. Extensive soil and talus fine sampling was also carried out in the anomalous areas but little or no follow-up sampling was carried out over the Claire claim fractions.

This report covers a program of systematic soil, talus fine and seep samplings on the Claire 1-4 claim fractions. Sample lines include:

Claire 1 Mineral Fraction	23 samples
Claire 2 Mineral Fraction	20 samples
Claire 3 Mineral Fraction	10 samples
Claire 4 Mineral Fraction	<u>15 samples</u> 68 samples

Base lines were surveyed in on each Claim fraction by Brunton Compass and a 100 foot chain with pickets placed every 100 feet.

## GEOCHEMISTRY: (cont'd)

### Field Methods (cont'd)

Samples were collected every 200 feet along the base lines and short offset lines were put in wherever necessary. Samples collected for this survey include soil, seep, stream sediment and talus fine material and the least organic and finest grain size was collected wherever possible. Sample sites were chosen as near as possible to the picket stations and all sites were numbered and marked in the field with red plastic flagging tape. Good soil samples from the B-horizon were difficult to obtain due to the abundance of boulders immediately beneath the A-horizon. Most of the soil samples were collected from 4" to 6" below the surface and consist of an admixture of A & B soil horizons with some organic material

The prevalence of surface boulders on Claire 3 impeded the collection of soil samples every 200 feet.

All pertinent information for each sample was recorded on data sheets. High wet strength Kraft envelopes were used to collect and store the samples. The samples were air-dried and sieved to -10 mesh in the Atlin area before dispatch for analysis.

### Analytical:

68 samples were shipped to the Vancouver Laboratories of Bondar-Clegg & Company, Limited, where they were dried in infra-red ovens at 40-50 deg.C. The samples were then sifted to -80 mesh using 8" Tyler stainless steel screens.

The -80 mesh fractions were then analyzed for Cu, Zn, Pb, Ag, Mo, Ni, Mn, Au, Sn and W, as follows

GEOCHEMISTRY: (Cont'd)

Analytical (cont'd)

<u>Element</u>	<u>Extraction Method</u>	<u>Analytical Techniques</u>	<u>Detection Limit</u>
Cu	Hot HNO <sub>3</sub> + HCl	Atomic absorption	1 ppm.
Zn	" "	" "	1 ppm.
Pb	" "	" "	2 ppm.
Ag	" "	" "	0.2 ppm.
Mo	" "	" "	1 ppm.
Ni	" "	" "	1 ppm.
Mn	" "	" "	1 ppm.
Au	Fire assay + aqua regia	" "	10 ppb.
Sn	Ammonium iodide fusion	Colorimetric	5 ppm.
W	Potassium carbonate fusion	"	1 ppm

Classification and Presentation of Data:

The analytical data were plotted on histograms for each of the metals to obtain an idea of their distribution. However, the small number of samples and the separation from claim to claim do not justify precise mathematical analysis.

The analyses were subjected to a computed program to determine the arithmetic means and standard deviations for each metal assuming normal distribution. The results of the computer program are shown on individual map sheets for each metal.

GEOCHEMISTRY: (cont'd)

Interpretation of Results:

Cu

With a background determined at 66 ppm., only one anomaly of any significance exists in the area under study. This is located on Claire 4 claim fraction with a marked increase in values to a peak of 440 ppm at Cl-4-11. This zone of interest appears to be about 1200 feet in length and almost at right angles to the main direction of slope.

Zn

Taking a background of 218 ppm., the zone of anomalous zinc is identical with that of Copper on Claire 4. The zone of anomalous zinc has a peak value of 1450 ppm. at Cl-4-12 with a similar drop-off in intensity in both directions.

Pb

The anomalous zone of Cu and Zn mineralization already indicated on Claire 4 fraction also contains high anomalous amounts of Pb with a peak of 800 ppm. at Cl-4-11.

With a background determination of 77 ppm., nothing else of any significance is indicated in the rest of the area.

Ag

As would be expected in the Ruby Creek area, there is a definite association of Ag with Pb and the anomaly on the Claire 4 fraction is duplicated perfectly in the Ag results, except that the peak of 6.4 ppm. is now at Cl-4-10.

GEOCHEMISTRY: (Cont'd)

Interpretation of Results: (cont'd)

Ag (cont'd)

However, in the case of Ag a few isolated, probably anomalous values, are indicated on each of the three valley claims, but the values are isolated and do not indicate anything of significance. The background in the case of Ag was calculated at 1.4 ppm.

Mo

The results of Mo again reproduce the same area of interest on Claire 4 with the peak at Cl-4-10 & 11.

However, although the intensity of 16 ppm. falls into the high anomalous category for this specific survey, these values are very much lower than the intense geochemical Mo anomalies picked up in the vicinity of the Molybdenite mineralization at the head of Ruby Creek. Nevertheless, the prevalence of values slightly higher than the calculated background of 5 ppm. does suggest a low intensity aureole of molybdenite mineralization in the general area of the claims, especially Claire 4.

Ni

The calculated background for Ni has been taken as 143 ppm. Erratic high values on Claire 3 are probably derived from exposures of ultrabasic rocks on either side of the valley, but may be associated with a small Ni showing to the northwest. (Aitken 1959. Geology of the Atlin map area, B.C. 104N (Memoir 307)).

GEOCHEMISTRY: (Cont'd)

Interpretation of Results: (cont'd)

Mn

The distribution of Mn values is generally low and erratic and appears to bear little or no relationship to the areas of anomalous metal content described earlier in this report.

The general background for Mn has been calculated as 654 ppm.

Au

Nothing of any significance is revealed in the distribution of low Au values on these claims which suggests that the source of the Ruby Creek placer gold deposit is not within the limits of the present survey.

The background for Au was calculated as 12 ppb. but this may not be completely accurate as the detection limit for the analytical method used is 10 ppb. One isolated value of 100 ppb falls within the area of interest on Claire 4.

Sn

The distribution of Sn values is lower than that picked up in the area of molybdenite mineralization to the southwest. However, this element also reflects the same area of anomalous metal content on Claire 4 already indicated by Cu, Zn, Pb, Ag and Mo.

A background of 5 ppm Sn has been used for this survey.



GEOCHEMISTRY: (Cont'd)

Interpretation of Results: (cont'd)

W

Results for W are very erratic and reveal no specific areas of interest. The isolated highs are probably related more to the alluvium and glacial overburden than with any W mineralization of consequence on these claims.

CONCLUSIONS:

The area of coincident Cu, Zn, Pb, Ag, Mo, and Sn anomalies on Claire 4 is more than likely related to vein mineralization which is common throughout much of the area.

RECOMMENDATIONS:

Further prospecting, geochemical sampling and trenching are recommended on Claire 4 and the adjoining Hobo 71 to the west.

Additional work should probably be considered on Hobo 64, 68 and 70, together with the ground north and west of Hobo 71, if these results are encouraging.

STATEMENT OF EXPENDITURES

GEOCHEMICAL SAMPLING, ANALYSES, & INTERPRETATION  
CLAIRE 1-4 MINERAL CLAIM FRACTIONS  
RUBY CREEK, ATLIN MINING DIVISION

ESTIMATE OF EXPENDITURES ON MINERAL CLAIM FRACTION CLAIRE #1

1. Establishing of base line and offset lines (total surveyed footage 5,600 ft.) by two men for two days @ \$ 54 per day	\$ 108.00
2. Collection of 23 Soil samples by one man for 1 day @ \$ 17.per day	\$ 17.00
3. Geochemical testing of 23 samples for Cu, Mo,Pb,Ag,W,Zn,Sn,Au,Mn,Ni	\$ 233.00
4. Writing report and drawing of maps (1/4 of total cost of \$ 460	\$ <u>115.00</u>
TOTAL	\$ 473.00

ESTIMATE OF EXPENDITURES ON MINERAL CLAIM FRACTION CLAIRE #2

1. Establishing of base line and offset lines (total surveyed footage 4,200 ft.) by two men for one day at \$ 54 per day	\$ 54.00
2. Collection of 20 samples by one man @ \$ 37 per day	\$ 37.00
3. Geochemical testing of 20 samples for Cu, Mo,Pb,Ag,W,Zn,Sn,Au,Mn,Ni	\$ 204.00
4. Writing report and drawing of maps (1/4 of total cost of \$ 460	\$ <u>115.00</u>
TOTAL	\$ 410.00

ESTIMATE OF EXPENDITURES ON MINERAL CLAIM FRACTION CLAIRE # 3

1. Establishing of base line (total surveyed footage 3,000 ft.) by two men for 1/2 day @ \$ 54 per day	\$ 27.00
2. Collection of 10 samples by one man for 1/2 day @ \$ 37 per day	\$ 18.50
3. Geochemical tests of 10 samples for Cu, Mo,Pb,Ag,W,Zn,Sn,Au,Mn, Ni	\$ 102.00
4. Writing reports and drawing of maps (1/4 of total cost of \$ 460	\$ <u>115.00</u>
TOTAL	\$ 262.50

ESTIMATE OF EXPENDITURES ON MINERAL CLAIM FRACTION CLAIRE #4

1. Establishing of base line (total surveyed footage 1,500 ft.) by two men for 1/2 day @ \$ 54 per day	\$ 27.00
2. Collection of 14 Soil samples by one man for 1/2 day @ \$ 37 per day	\$ 18.50
3. Geochemical tests of 14 samples for Cu, Mo,Pb,Ag,W,Zn,Sn,Au,Mn,Ni	\$ 142.00
4. Writing reports and drawing of maps (1/4 of total costs of \$ 460	\$ <u>115.00</u>
TOTAL	\$ 302.50

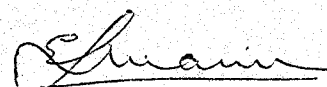
## STATEMENT OF QUALIFICATIONS

I, Ernest Leigh Mann, of the town of Asbestos, Quebec, do hereby declare that:

- (1) I am a geologist employed as Chief Geologist for Canadian Johns-Manville Company, Limited, P.O. Box 1500, Asbestos, Quebec.
- (2) I have practiced in the geological profession for 15 years and specialized in economic geology and exploration for most of that time.
- (3) I am a graduate of the following universities:

University of Natal (Geology & Geography)	B.Sc.	1949
University of Natal (Geology)	B.Sc. (Hons)	1951
University of Natal (Geology)	M.Sc.	1954
McGill University (Geology)	Ph.D.	1959
- (4) I am a member of the following professional associations:
  - (a) Professional Geologists of Quebec
  - (b) Fellow of the Geological Association of Canada
  - (c) Member of the Geological Society of South Africa
  - (d) Member of the Canadian Institute of Mining & Metallurgy
- (5) This report is based on published and unpublished information.

August 1970

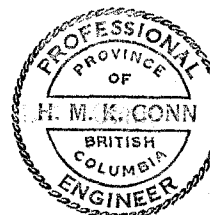
  
E.L. Mann

STATEMENT OF QUALIFICATIONS

I, Herbert Keith Conn, of the town of Asbestos, Quebec, do hereby declare that:

- (1) I am a mining geological engineer employed as Exploration Manager for Canadian Johns-Manville Company, Limited, P.O. Box 1500, Asbestos, Quebec.
- (2) I have practised in the geological profession for 21 years, and specialized in economic geology and exploration procedures for the past 20 years.
- (3) I am a graduate of the University of Toronto, Toronto, Ontario with the degree of B.A.Sc. (Mining Geology), 1948.
- (4) I am a member of the following professional associations:
  - (a) Corporation of Engineers of Quebec.
  - (b) Non-resident member of the Association of Professional Engineers of the Province of British Columbia.
  - (c) Fellow of the Geological Association of Canada.
  - (d) Fellow of the Society of Economic Geologists.
  - (e) Member of the Canadian Institute of Mining and Metallurgy.
  - (f) Member of the American Institute of Mining Engineers.
- (5) This report is based on published and unpublished information and personal observations on the property.

August 1970



Expiry Date: Jan. 28, 1971

*H. K. Conn*

## BONDAR-CLEGG &amp; COMPANY LTD.

## GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR MR. P. NICHOLSONPROJECT 60WEATHER SUNNYDATE 19 JUNE 1970AREA RUBY CREEK (ATLIN)PHYSIOGRAPHY MOUNTAINOUS

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL					
CL1-1		←	G.T.		BROWN	FINE	SAMPLE FROM BANK OF SWAMP.						
CL1-2		←	G.T.		BROWN	FINE	SMALL CLEARING IN B.B. (6'x12') FEW ROOTS						
CL1-3		←	G.T.		BROWN	FINE	SMALL CLEARING IN B.B. (4'x12') FEW ROOTS						
CL1-4		←	G.T.		BROWN	FINE	SAMPLE FROM SWAMP BANK						
CL1-5		←	G.T.		BROWN	FINE	SAMPLE FROM GOPHER HOLE ENTRANCE						
CL1-6		←	G.T.		BLACK	FINE	V. ROCKY SOIL. A BIT OF ORG. PRESENT.						
CL1-7		←	G.T.		BLACK	FINE	FROM BETWEEN ROCKS. SEEPAGE TO THE SOUTH.						
CL1-8		←	G.T.		BROWN	FINE	FROM "BEAR-DUG" GOPHER HOLE.						
CL1-9		←	G.T.		BROWN	FINE	FROM BETWEEN ROCKS. ORG. MAY BE MODERATE.						
CL1-10		←	G.T.		BROWN	FINE	FROM BETWEEN ROCKS. ORG. SLIGHT.						
CL1-11		←	G.T.		BLACK	FINE	WET AREA. SEEPAGE TO EAST						
CL1-12		←	G.T.		BLACK	FINE	WET AREA TO W. ORG. MAY BE MODERATE.						
CL1-13		←	G.T.		BLACK	FINE	BLACK, WET SOIL.						
CL1-14		←	G.T.		BROWN	FINE	DUG THROUGH 4" BLACK SOIL TO BROWN.						
CL1-15		←	G.T.		BROWN	FINE	FROM BARE SPOT IN CLEARING. NO ORG.						
CL1-16		←	G.T.		DARK BROWN	FINE	FROM SWAMP BANK.						
CL1-17		←	G.T.		BROWN	FINE	FROM CLEARING IN B.B.						
CL1-18		←	G.T.		BROWN	FINE	SOME ORG. ROCKY GROUND.						
CL1-19		←	G.T.		BROWN	FINE	FROM BANK (35°) LITTLE ORG.						
CL1-20		←	G.T.		BROWN	FINE	FROM CLEARING. ORGANIC VS-S.						
CL1-21		←	G.T.		BROWN	FINE	FROM CLEARING. SLOPE OF 35°.						
CL1-22		←	G.T.		BROWN	FINE	FROM BALD SPOT. B.B. ROOTS UNDER SAMPLE						
CL1-23		←	G.T.		BROWN	FINE	TAKEN FROM GOPHER HOLE. ORGANIC SLIGHT.						

# BONDAR-CLEGG & COMPANY LTD.

## GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR C. Aspinall

PROJECT 60

WEATHER FAIR

DATE 19-6-70

AREA RUZY CREEK, ATIN M.P. PHYSIOGRAPHY MOUNTAINOUS

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL					
CL-2-1	CLAIRE 2	←	G.T.	A-B	BROWN	FINE.	BANK OF CR. 6" DEEP. ORG. MATERIAL						
CL-2-2	" "	←	G.T.	A-B	BROWN	FINE	BUCK BRUSH THICK. 6" DEEP. ORG. MATERIAL						
CL-2-3	" "	←	G.T.	A-B	BROWN	FINE	BUCK BRUSH AREA. SIDE OF CREEK. ORG.						
CL-2-4	" "	+	G.T.	A-B	BROWN	FINE	TOP OF SMALL HILL. ORG. MAT						
CL-2-5	" "	+	G.T.	A-B	BROWN	FINE	6" DEEP HOLE. ORG. MATERIAL						
CL-2-6	" "	+	G.T.	A-B	BROWN	FINE	6" DEEP HOLE. GOOD DEAL ORG. MATERIAL						
CL-2-6	" "	+	G.T.	A-B	BROWN	FINE	6" DEEP HOLE. ORGANIC MAT						
CL-2-7	" "	+	G.T.	A-B	BROWN	FINE	SOME PEBBLES 6" DEEP HOLE ON TOP SMALL HILL						
CL-2-8	" "	+	G.T.	A-B	BROWN	FINE	6" DEEP HOLE. ORG. MATERIAL						
CL-2-9	" "	+	G.T.	A-B	BROWN	FINE	6" DEEP HOLE. ORGANIC MATERIAL						
CL-2-10	" "	←	G.T.	A-B	BROWN BLACK	FINE	GOOD DEAL ORG. MAT. HOLE 6" DEEP						
CL-2-11	" "	←	G.T.	A-B	BROWN	FINE	GOOD DEAL ORG. MAT. HOLE 6" DEEP						
CL-2-12	" "	←	G.T.	A-B	BROWN	FINE	MANY BOULDERS. 6" DEEP HOLE						
CL-2-13	" "	←	G.T.	A	BLACK	FINE	MANY BOULDERS. 6" DEEP HOLE. SOIL SHALLOW						
CL-2-14	" "	←	G.T.	A	BLACK	FINE	SOIL SHALLOW ORG. MAT						
CL-2-15	" "	←	G.T.	A	BLACK	FINE	MANY BOULDERS. HOLE 6" DEEP ORG. MAT.						
CL-2-16	" "	←	G.T.	A	BLACK	FINE	MANY BOULDERS. SOIL SHALLOW HOLE 6" DEEP						
CL-2-17	" "	←	G.T.	A	BLACK	FINE	MANY BOULDERS. SOME PEBBLES IN SOIL. HOLE 6" DEEP						
CL-2-18	" "	←	G.T.	A	BLACK	FINE	SWAMPY. WILLOW BUCK BRUSH. ORG. MATERIAL						
CL-2-19	" "	←	G.T.	A-B	BROWN	FINE.	GROUND SQUIRREL TAILINGS. LITTLE ORG.						
CL-2-20	" "	←	G.T.	A-B	BROWN	FINE	GROUND SQUIRREL TAILINGS. LITTLE ORG.						

# BONDAR-CLEGG & COMPANY LTD.

## GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR C. ASPINALL

PROJECT 60

WEATHER FAIR

DATE 19-6-70

AREA RUBY CREEK, ALIN M.P.

PHYSIOGRAPHY MOUNTAINOUS

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL					
CL-3-1	CLAIRE #2	↖	G.T.	A	BLACK	FINE	SEEP, GOOD DEAL ORG. MAT. 3" DEEP.						
CL-3-2	"	↖	G.T.	A	BROWN	FINE-COARSE	SOME ORG. MATTER.						
CL-3-3	"	←	CREEK SAND	—	BROWN-GREY	FINE	SAND MATERIAL COARSE 10 q/s/sec						
CL-3-4	"	+	G.T.	A-B	BROWN	FINE	TOP OF COARSE SMALL HILL						
CL-3-5	"	←	CREEK SAND	—	GREY-TAN	COARSE	10 q/s/sec.						
CL-3-6	"	←	CREEK SAND	—	BROWN	FINE/SOME FRAG.	ORGANIC MATERIAL VERY SLIGHT.						
CL-3-7	"	↖	G.T.	A	BROWN	FINE/SOME FRAG.	ORGANIC MATERIAL. SOIL SHALLOW.						
CL-3-8	"	↓	SEEP G.T.	A	BLACK	FINE.	ORGANIC MAT. SOIL SHALLOW						
CL-3-9	"	↓	G.T.	A	GREY WHITE	FINE.	ORG. MAT. SOIL SHALLOW						
CL-3-10	"	↓	SEEP G.T.	A	GREY	FINE.	STAGNANT CREEK. SOIL SLOWLY SHALLOW.						



# BONDAR-CLEGG & COMPANY LTD.

## GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR C. ASPINALL

PROJECT 60

WEATHER FAIR

DATE 18-6-70

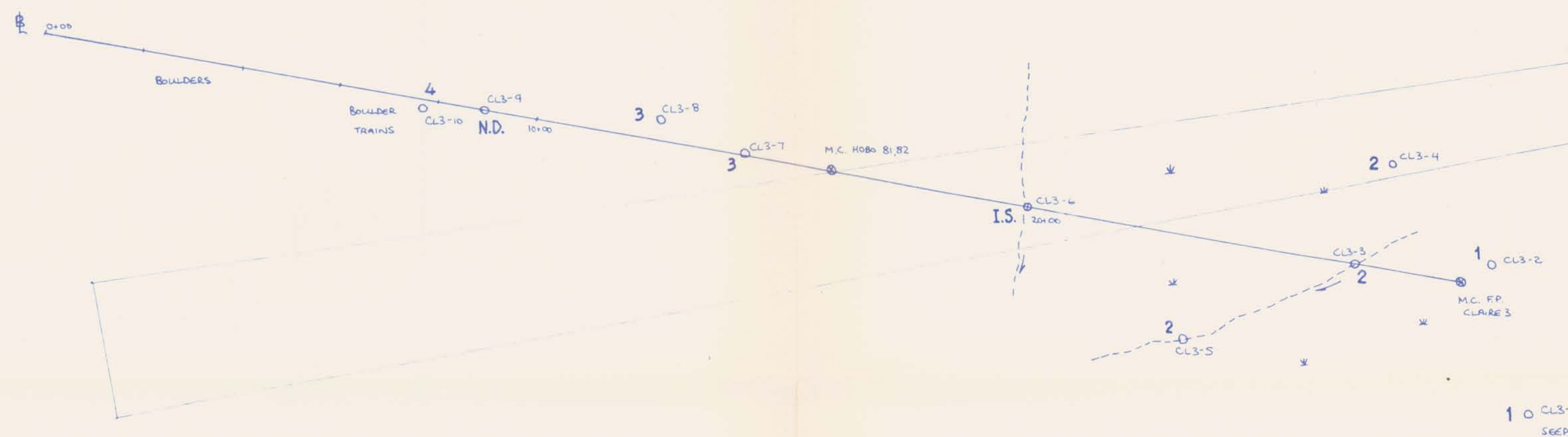
AREA RUBY CREEK, ATLIN  
M.P.

PHYSIOGRAPHY MOUNTAINOUS

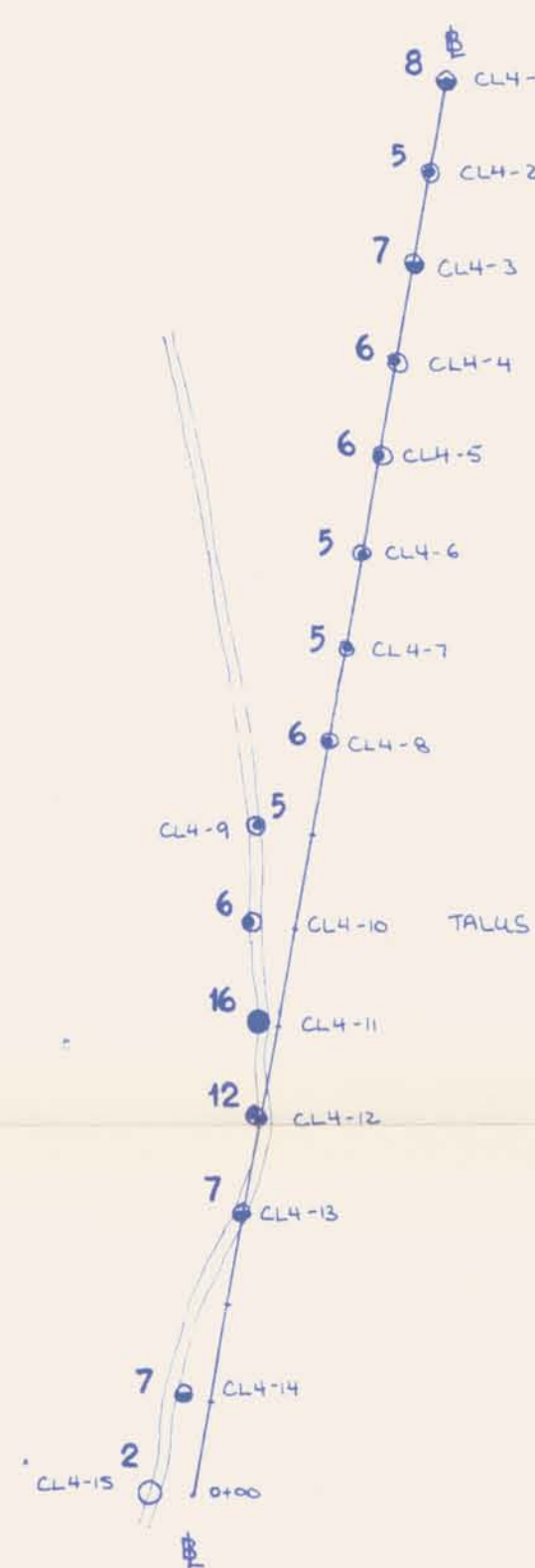
CL-4-1	CLAIRE #4	→	G.T.		BROWN	FINE	FROM BALD SPOT IN SOIL PATCH <del>60</del> <del>2000</del>								
CL-4-2	"	→	G.T.		BROWN	FINE	FROM BALD SPOT NEAR SURFACE. V. LITTLE ORGANIC.								
CL-4-3	"	→	G.T.		BROWN	FINE	A FEW BUCK- BRUSH PLANTS IN VICINITY.								
CL-4-4	"	→	G.T.		BROWN	FINE	FROM SURFACE OF BALD SPOT. NO ORGANIC.								
CL-4-5	"	→	G.T.		BROWN	FINE	FROM SURFACE OF BALD SPOT. NO ORGANIC.								
CL-4-6	"	→	G.T.		BROWN	FINE	FROM TOP OF BALD SPOT. NO ORGANIC.								
CL-4-7	"	→	G.T.		BROWN	FINE	FROM TOP OF BALD SPOT. NO ORGANIC.								
CL-4-8	"	→	G.T.- TALUS		BROWN.	FINE	SOIL PATCH IN TALUS. ORGANIC MODERATE.								
CL-4-9	"	→	TALUS	RE: WORKED	BROWN	FINE.	COLLECTED FROM ROAD CUT.								
CL-4-10	"	→	TALUS	RE: WORKED	BROWN	FINE, SOME ROCK FRAG.	VERY LITTLE ORG. MAT. ROAD CUT.								
CL-4-11	"	→	TALUS	RE: WORKED	BROWN	FINE	ROAD CUT. VERY LITTLE ORG.								
CL-4-12	"	→	TALUS	RE WORKED	BROWN	FINE SOME FRAG	ROAD CUT VERY LITTLE ORG.								
CL-4-13	"	→	TALUS	RE WORKED	BROWN	FINE	ROAD CUT SOME ORG								
CL-4-14	"	→	SOILY TALUS	RE WORKED	BROWN	FINE	ROAD CUT. LITTLE ORG								
CL-4-15	"	→	TALUS	RE WORKED	BROWN	FINE	VERY LITTLE ORGANIC								



# CLAIRE 3

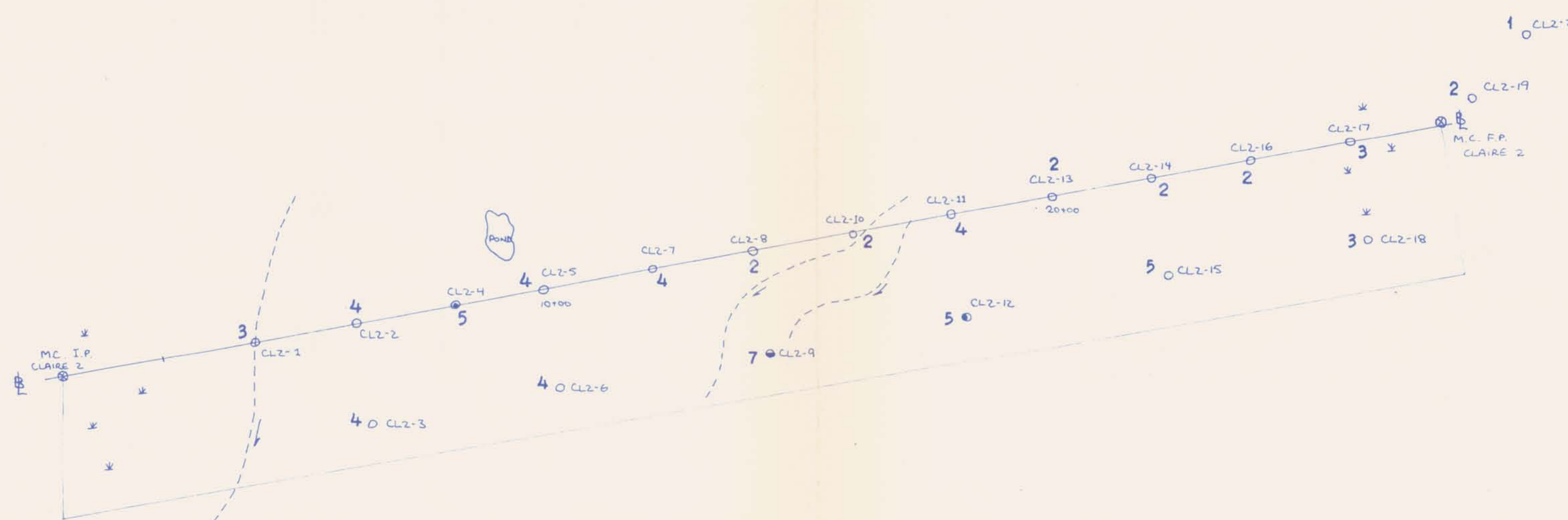


# CLAIRE 4



Scale: 1"=200'

# CLAIRE 2



SCALE 1"=200'

# CLAIRE 1



SCALE 1"=200'

## SYMBOLS:

DIAMOND DRILL ROAD	---
WINTER ROAD	---
MARSH	---
MARSH BANK	---
CREEK	---
SEEPAGE	---
CLEARING	---
BOULDER TRAINS	---
CONIFEROUS TREES	---
CLAIMPOST	---
SOIL SAMPLE LOCATION (WITH SAMPLE NO.)	○ CL1-1
CLAIM BOUNDARIES	---
BUCKBRUSH	---

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #6

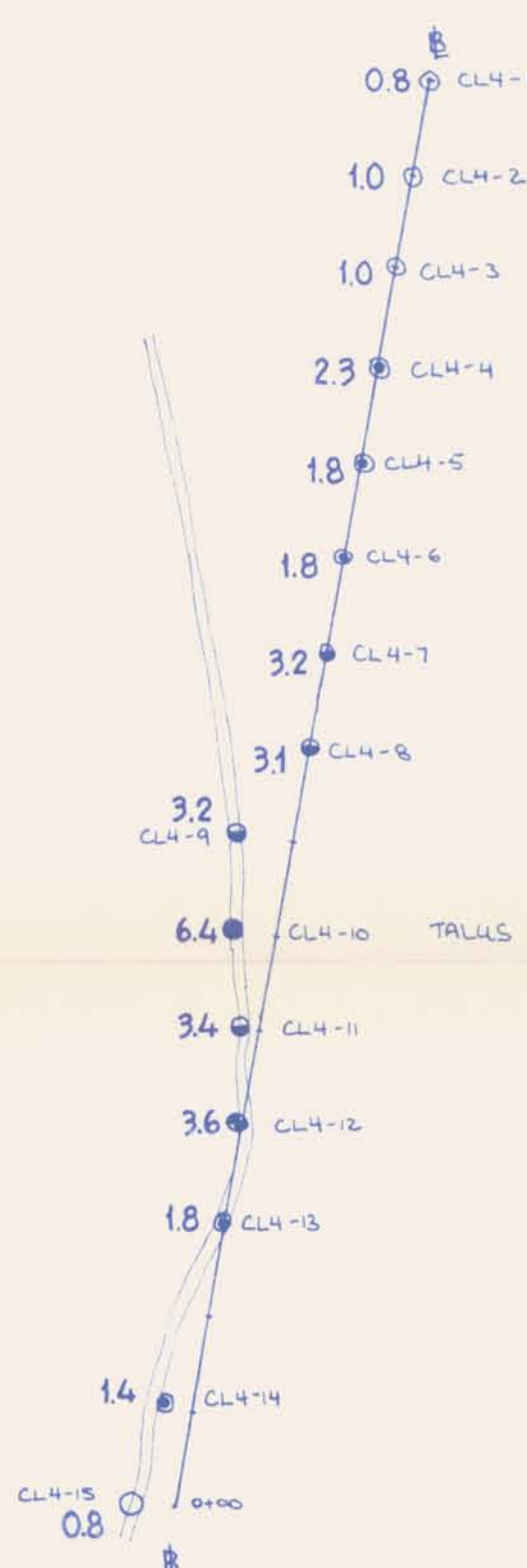
Geochemical Assays	
Symbols	Values
○	Negative 0-4
⊙	Poss. anom. 5-6
⊗	Prob. anom. 7-8
⊕	Anomalous 9-12
●	Highly anom. 13+

Mo DISTRIBUTION

CANADIAN JOHNS-MANVILLE CO. LTD.  
ATLIN M.D., BRITISH COLUMBIA.  
SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROJECT: 60 DATE: 25/6/74 DRAWN: P.N.



SCALE 1" = 200'



Scale: 1"=200'

SCALE 1" : 200'



SCALE 1" : 200'

DIAMOND DRILL ROAD  
WINTER ROAD  
MARSH  
MARSH BANK  
CREEK  
SEEPAGE  
CLEARING  
BOULDER TRAINS  
CONIFEROUS TREES  
CLIMPOST  
SOIL SAMPLE LOCATION (WITH SAMPLE NO.)  
CLAIM BOUNDRIES  
BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #5

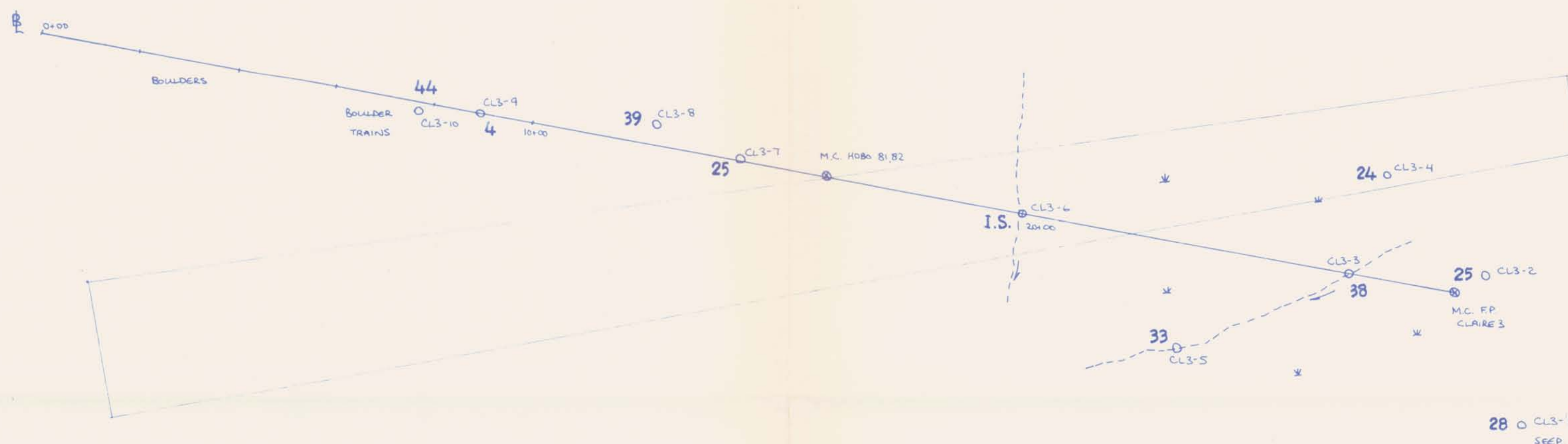
Geochemical Assays		
Symbols		Values
○	Negative	0 - 1.3
◐	Poss. anom.	1.4 - 2.3
◑	Prob. anom.	2.4 - 3.4
◒	Anomalous	3.5 - 4.4
●	Highly anom.	4.5 +

## Ag DISTRIBUTION

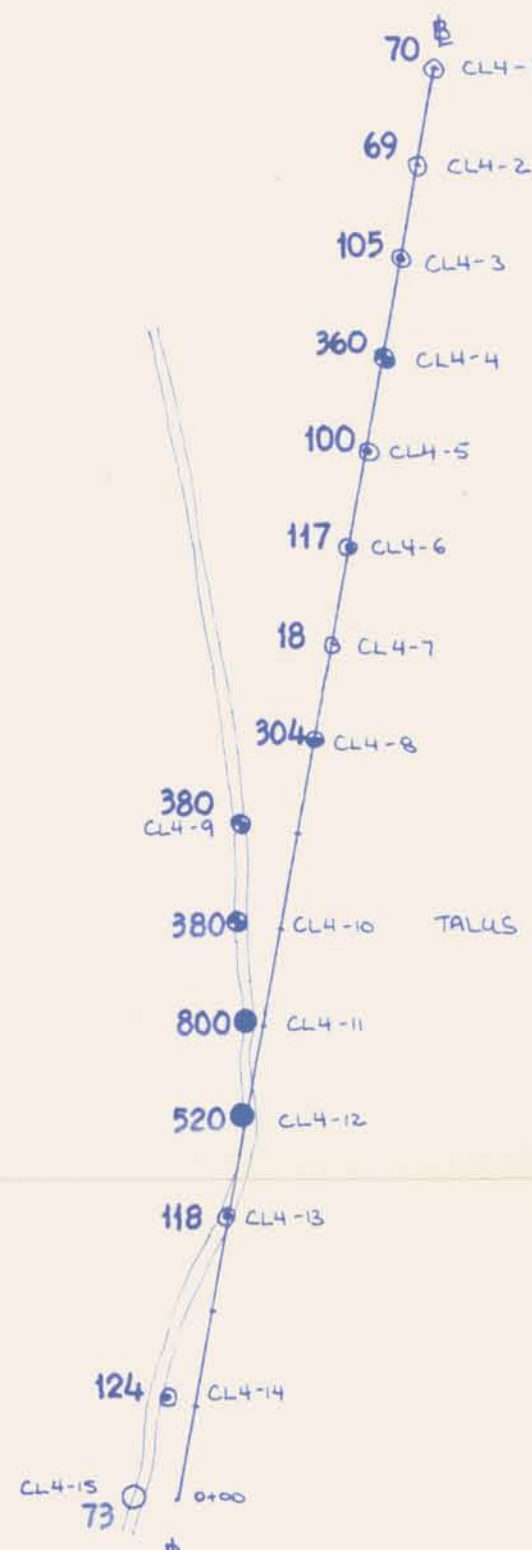
CANADIAN JOHNS-MANVILLE Co. LTD.			
ATLIN M.D., BRITISH COLUMBIA.			
SOIL SAMPLE LOCATIONS, M.C.'s CLAIRE 1-4, ATLIN M.D., B.C.			
SCALE:	PROJECT: GO	DATE: 25/6/70	DRAWN: P.N.



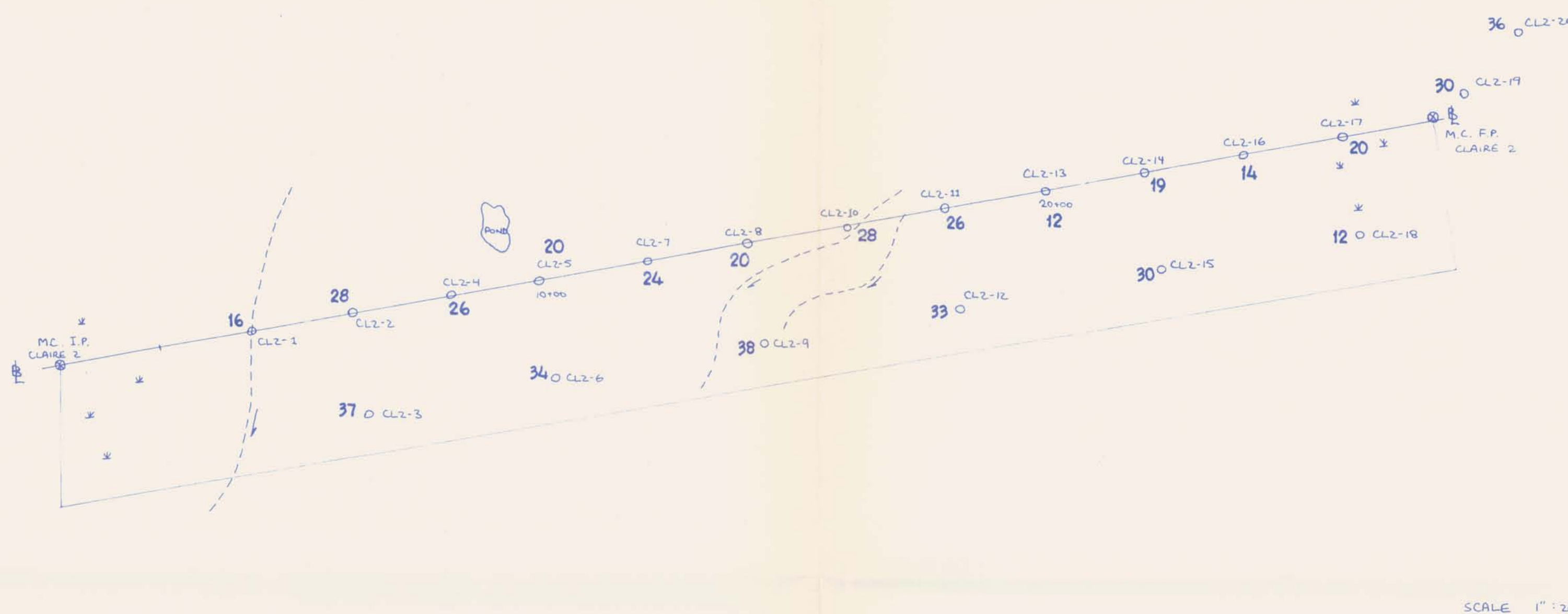
# CLAIRE 3



# CLAIRE 4



# CLAIRE 2



# CLAIRE 1



## SYMBOLS:

- DIAMOND DRILL ROAD
- WINTER ROAD
- MARSH
- MARSH BANK
- CREEK
- SEEPAGE
- CLEARING
- BOULDER TRAINS
- CONIFEROUS TREES
- CLAMPOST
- SOIL SAMPLE LOCATION (WITH SAMPLE NO.)
- CLAM BOUNDARIES
- BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #4

Geochemical Assays	
Symbols	Values
○	Negative 0-76
●	Poss. anom. 77-208
⊙	Prob. anom. 209-360
⊗	Anomalous 361-472
⦿	Highly anom. 473+

## Pb DISTRIBUTION

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SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROJECT: 60 DATE: 25/6/76 DRAWN: P.N.



A hand-drawn map of the CL4-15 area. A road is shown running vertically, with several points marked by dots and labeled with numbers and codes. The points are: 199 (CL4-1), 250 (CL4-2), 425 (CL4-3), 900 (CL4-4), 290 (CL4-5), 440 (CL4-6), 590 (CL4-7), 790 (CL4-8), 880 (CL4-9), 1025 (CL4-10), 1300 (CL4-11), 1450 (CL4-12), 600 (CL4-13), 560 (CL4-14), and 215 (CL4-15). A point labeled 'TALLS' is also marked near the 1025 point. A road labeled 'CL4-15' is shown at the bottom, with a point labeled '0+00' and a small circle. A north arrow is located at the bottom center.

Scale: 1"=200'

Hand-drawn map of a coastal area with various points labeled with numbers and codes like CL-1-1, CL-1-2, etc. The map includes a coastline, a river, and a pond. A line connects points 85, 88, 92, 95, 100, 127, 128, and 131. A large number '2576' is written at the bottom right.

DIAMOND DRILL ROAD  
WINTER ROAD  
MARSH  
MARSH BANK  
CREEK  
SEEPAGE  
CLEARING  
BOULDER TRAINS  
CONIFERUS TREES  
CLAIMPOST  
SOIL SAMPLE LOCATION (WITH SAMPLE NO.)  
CLAIM BOUNDARIES  
BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #3

Geochemical Assays		
Symbols		Values
○	Negative	0-217
⊖	Poss. anom.	218-517
⊗	Prob. anom.	518-816
⊕	Anomalous	817-1116
●	Highly anom.	1117 +

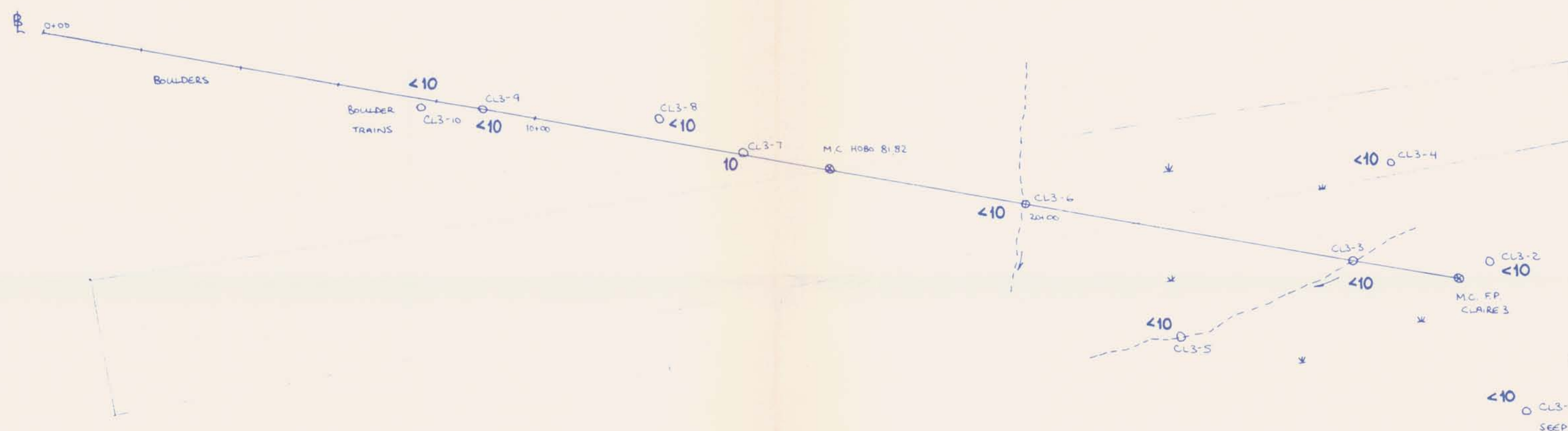
## Zn DISTRIBUTION

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CLAIRE 1-4, ATLIN M.D., B.C.

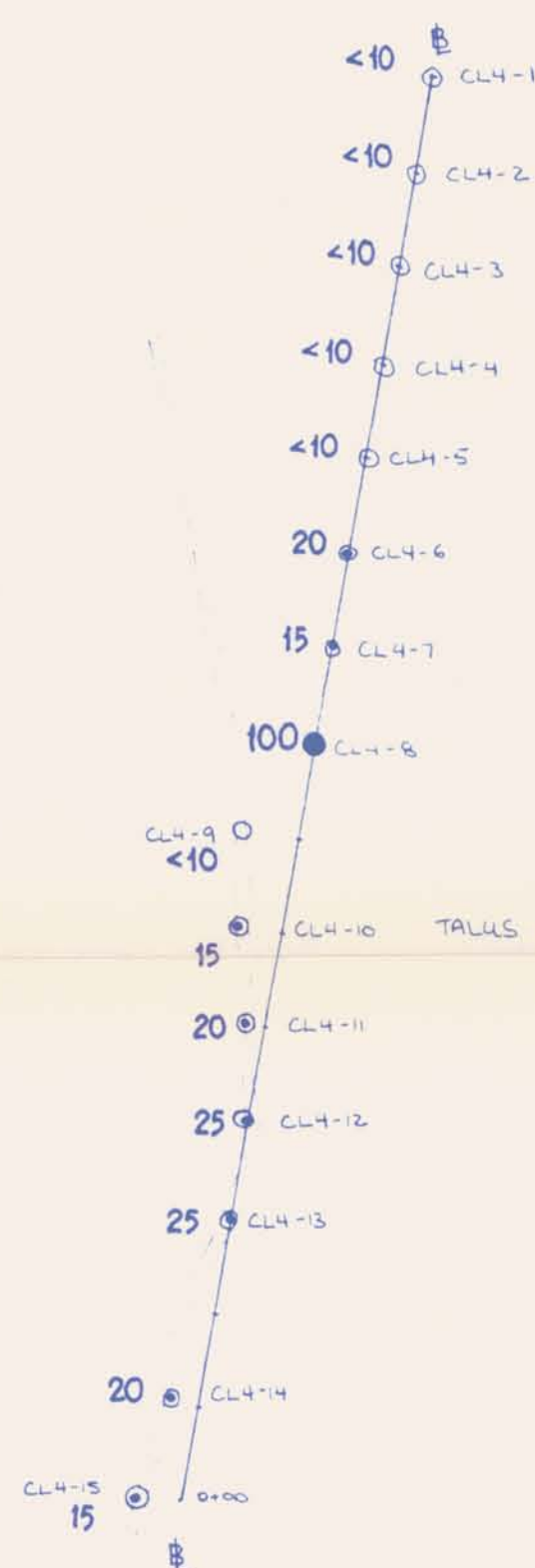


# CLAIRE 3



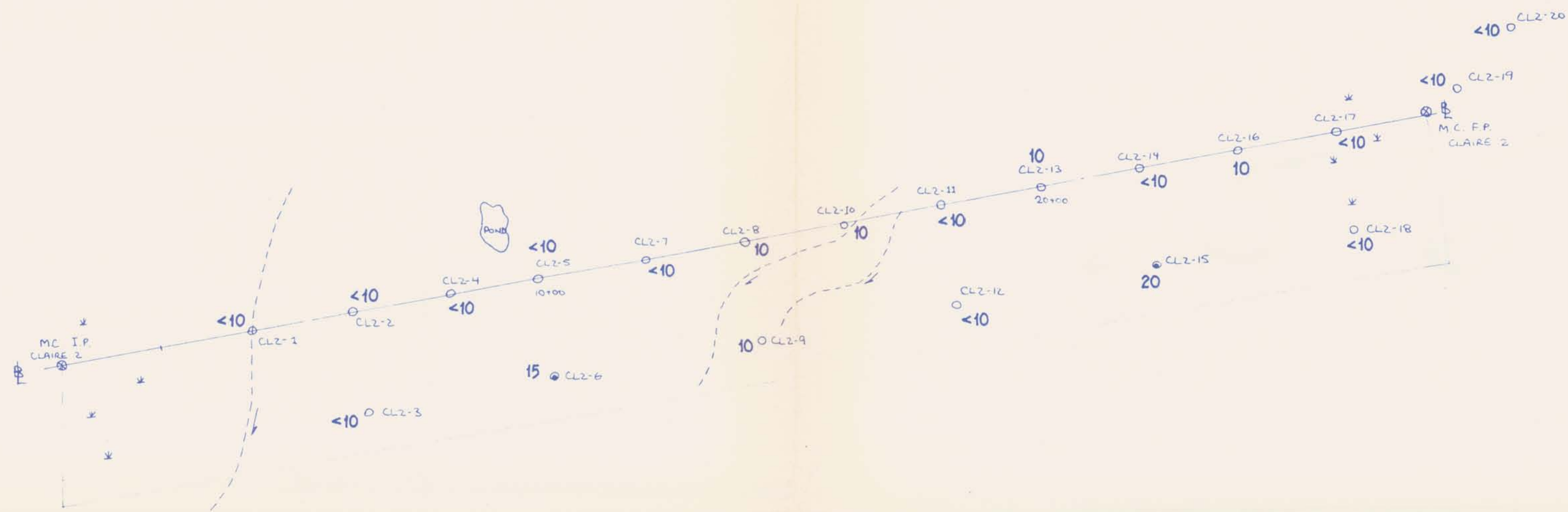
SCALE 1" = 200'

# CLAIRE 4



Scale: 1" = 200'

# CLAIRE 2



SCALE 1" = 200'

# CLAIRE 1



SCALE 1" = 200'

## SYMBOLS:

- DIAMOND DRILL ROAD
- WINTER ROAD
- MARSH
- MARSH BANK
- CREEK
- SEEPAGE
- CLEARING
- BOULDER TRAINS
- CONIFERUS TREES
- CLAIMPOST
- SOIL SAMPLE LOCATION (WITH SAMPLE NO.)
- CLAIM BOUNDARIES
- BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #2

Geochemical Assays	
Symbols	Values
○	Negative 0 - 11
●	Poss. anom. 12 - 27
⊙	Prob. anom. 28 - 43
⊗	Anomalous 44 - 59
⦿	Highly anom. 60 +

## Au DISTRIBUTION

CANADIAN JOHNS-MANVILLE CO. LTD.  
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SOIL SAMPLE LOCATIONS M.C.'S  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROJECT: 60 DATE: 25/6/76 DRAWN: P.N.



A hand-drawn map of a road network. The map features a main road with several branches and a loop. The points are numbered as follows: 68, 95, 83, 80, 85, 93, 85, 74, 78, 79, 64, 95, 78, 93, and 95. The labels 'CL4-1' through 'CL4-15' are placed next to the corresponding points. 'TALLUS' is written near point 79. The map is drawn on a grid background.

Point Number	Label
68	CL4-1
95	CL4-2
83	CL4-3
80	CL4-4
85	CL4-5
93	CL4-6
85	CL4-7
74	CL4-8
78	CL4-9
79	CL4-10
64	CL4-11
95	CL4-12
78	CL4-13
93	CL4-14
95	CL4-15

TALLUS

0+00

[illegible]

Hand-drawn map of a coastal area with various points labeled with numbers and codes like CL-1-1, CL-1-2, etc. The map includes a coastline, a river, and a pond. A line connects points 65, 94, 170, 108, and 23. Other points include 70, 191, 250, 287, 137, 178, 236, 109, 158, 120, 128, 188, 199, 262, 210, 180, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300.

DIAMOND DRILL ROAD  
WINTER ROAD  
MARSH  
MARSH BANK  
CREEK  
SEEPAGE  
CLEARING  
BOULDER TRAINS  
CONIFEROUS TREES  
CLAIMPOST  
SOIL SAMPLE LOCATION (WITH SAMPLE NO.)  
CLAIM BOUNDARIES  
BUCKBRUSH

Geochemical Assays		
Symbols		Values
○	Negative	0-142
⊙	Poss. anom.	143-310
⊕	Prob. anom.	311-477
⊗	Anomalous	478-645
●	Highly anom.	646 +

CANADIAN JOHNS-MANVILLE Co. LTD.  
ATLIN M.D., BRITISH COLUMBIA.

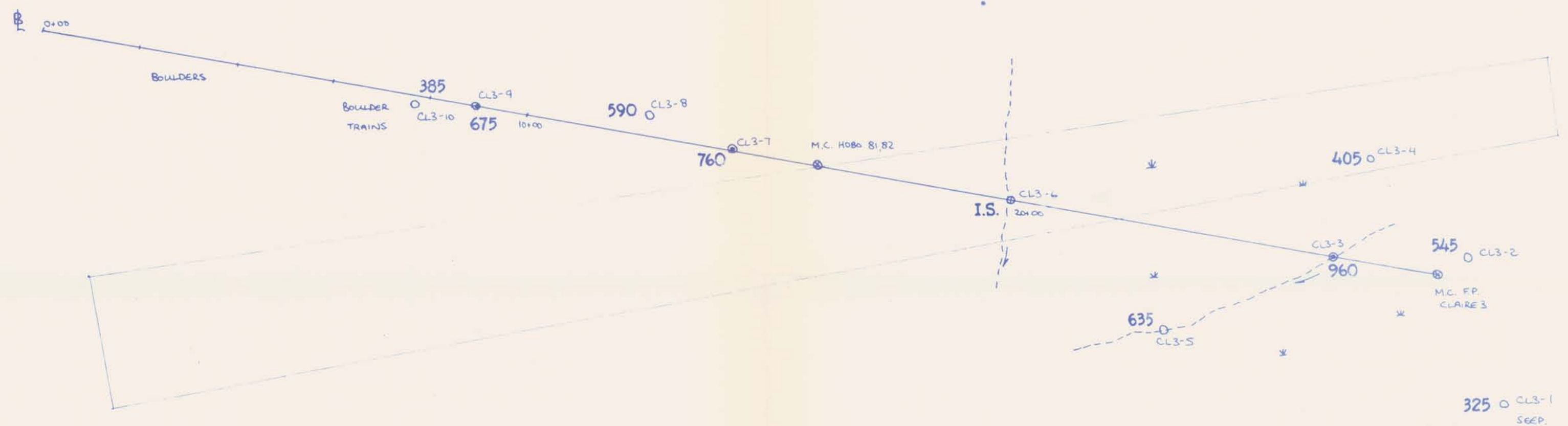
SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.

SCALE:	PROJECT: 60	DATE: 25/6/70	DRAWN: P.N.
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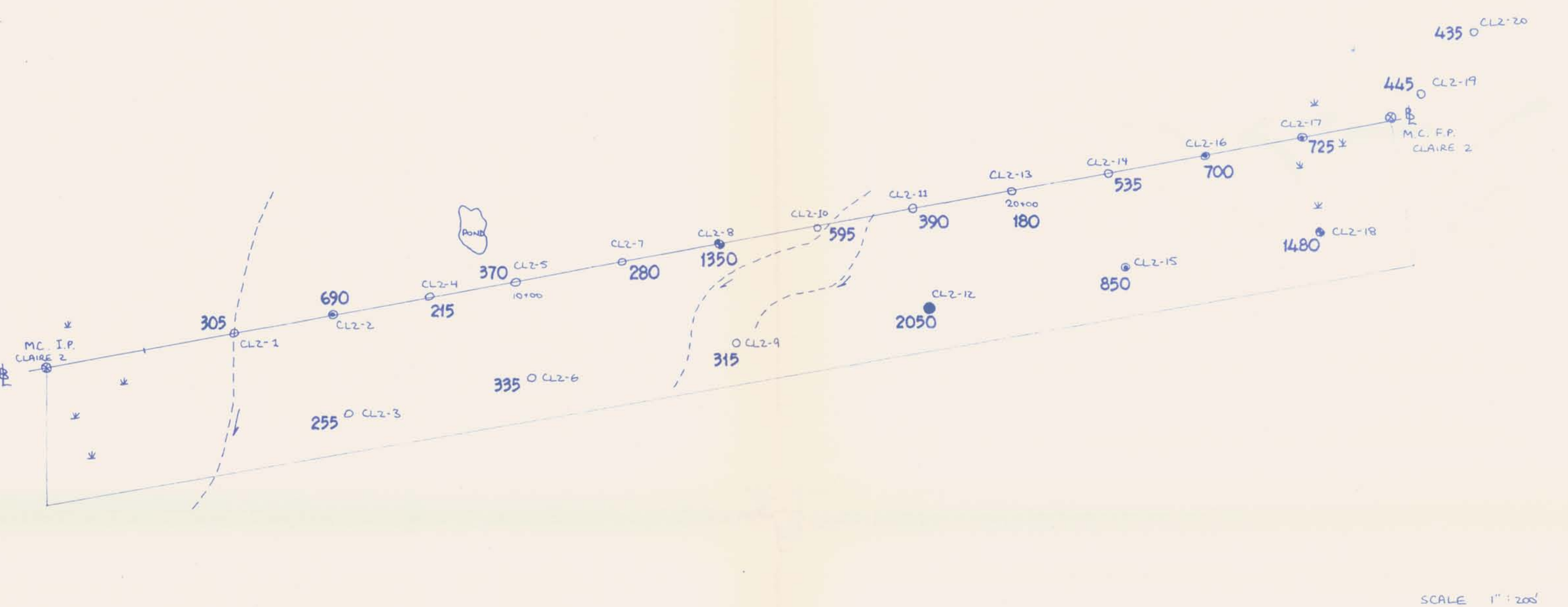
SOIL SAMPLING DONE BY C. ASPINALL AND P. NICHOLSON.



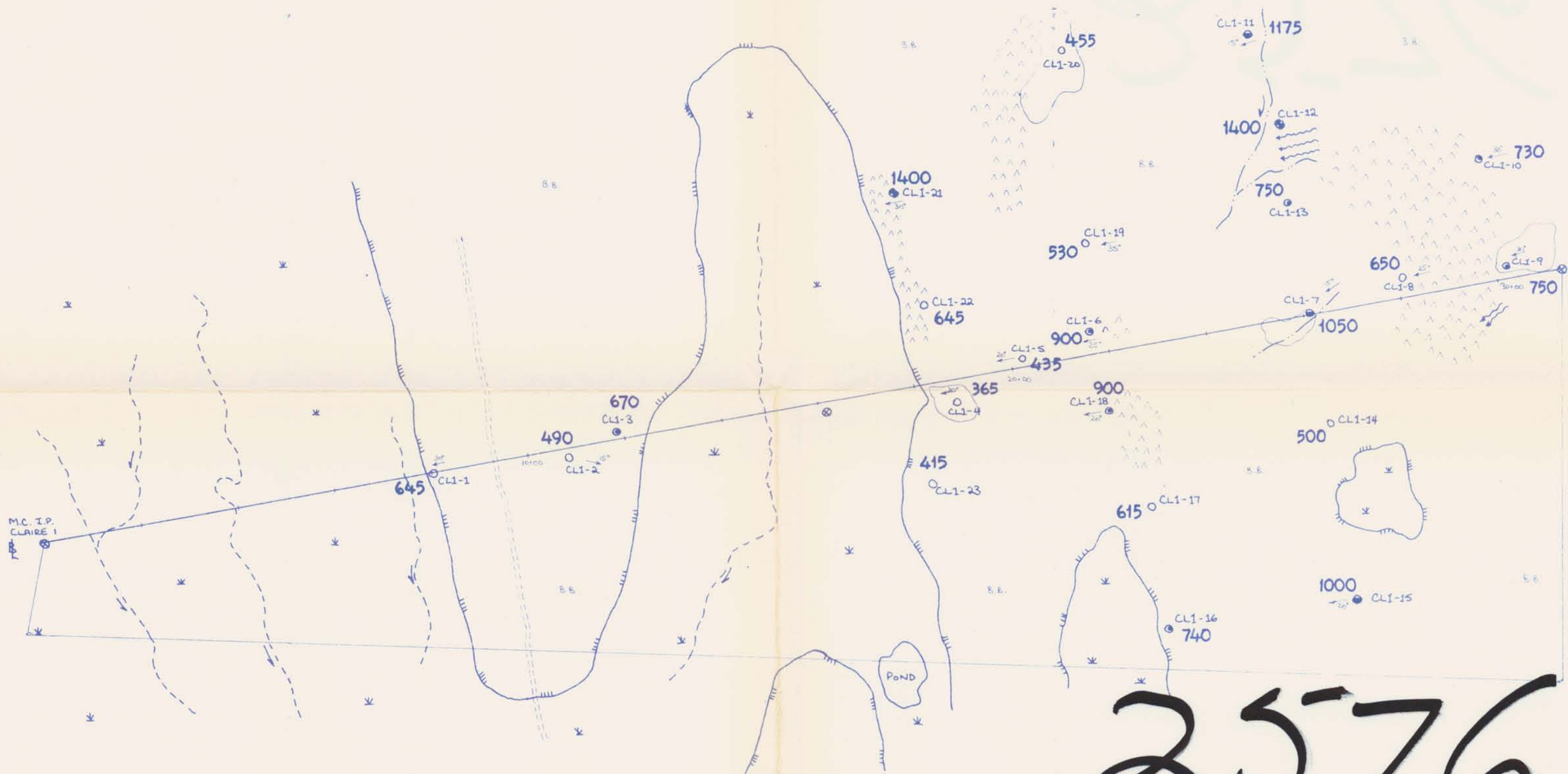
# CLAIRE 3



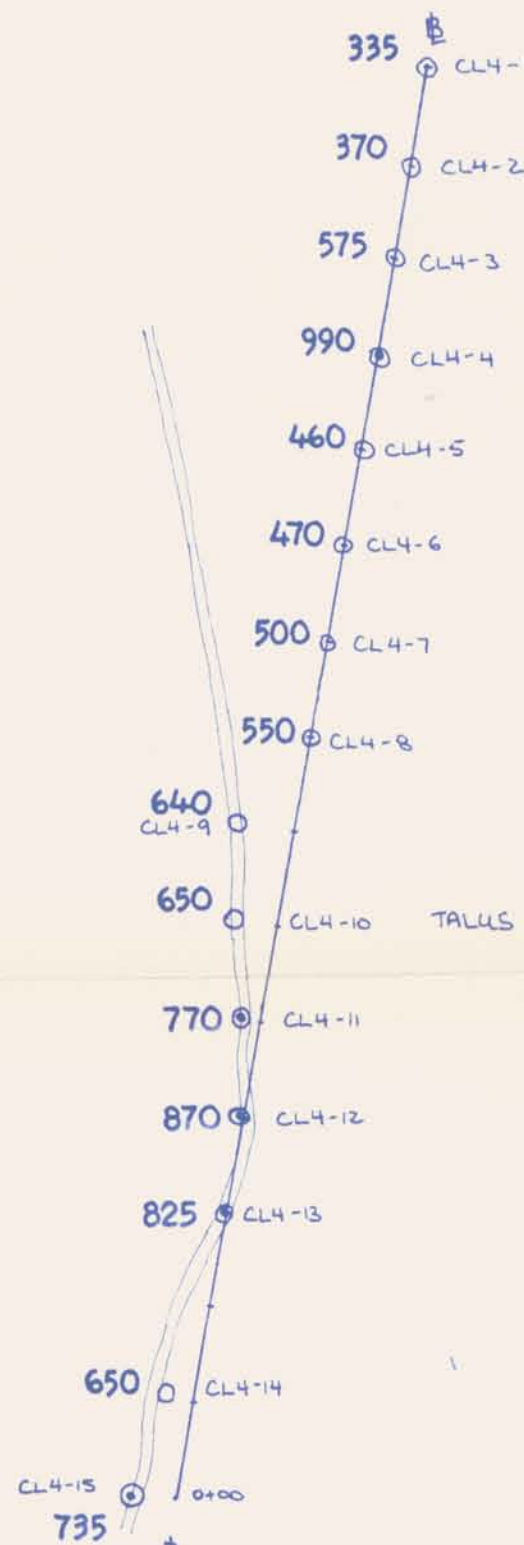
# CLAIRE 2



# CLAIRE 1



# CLAIRE 4



# SYMBOLS:

- DIAMOND DRILL ROAD
- WINTER ROAD
- MARSH
- MARSH BANK
- CREEK
- SEEPAGE
- CLEARING
- BOULDER TRAINS
- CONIFEROUS TREES
- CLAMPPOST
- SOIL SAMPLE LOCATION (WITH SAMPLE NO.)
- CLAIM BOUNDARIES
- BLACKBUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #8

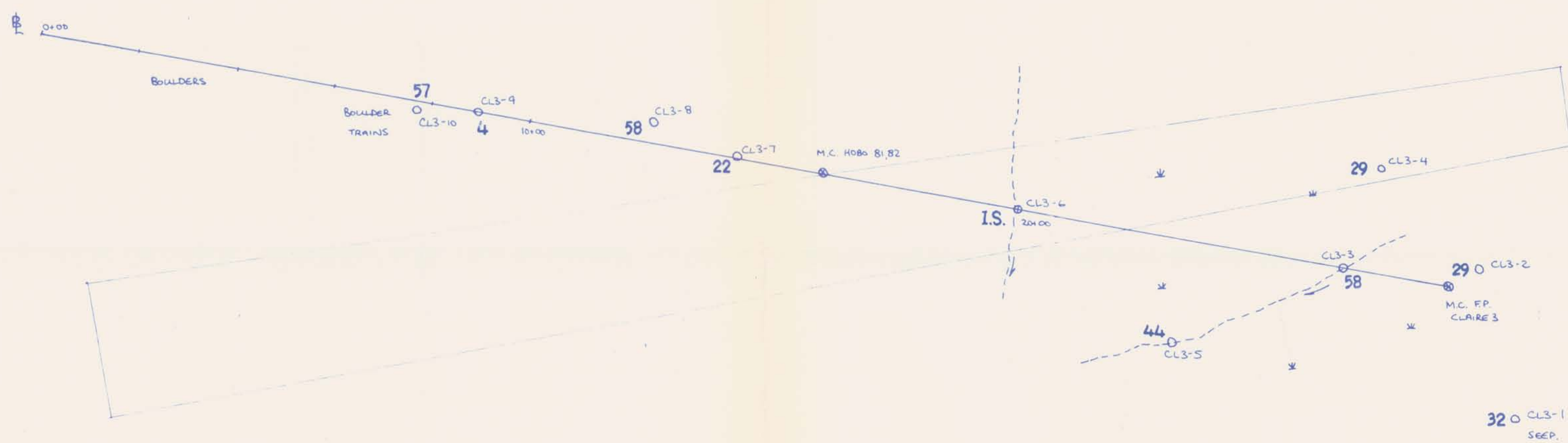
Geochemical Assays	
Symbols	Values
○	Negative 0-659
●	Pos. anom. 654-996
⊙	Prob. anom. 997-1338
⊗	Anomalous 1339-1681
⊕	Highly anom. 1682 +

# Mn DISTRIBUTION

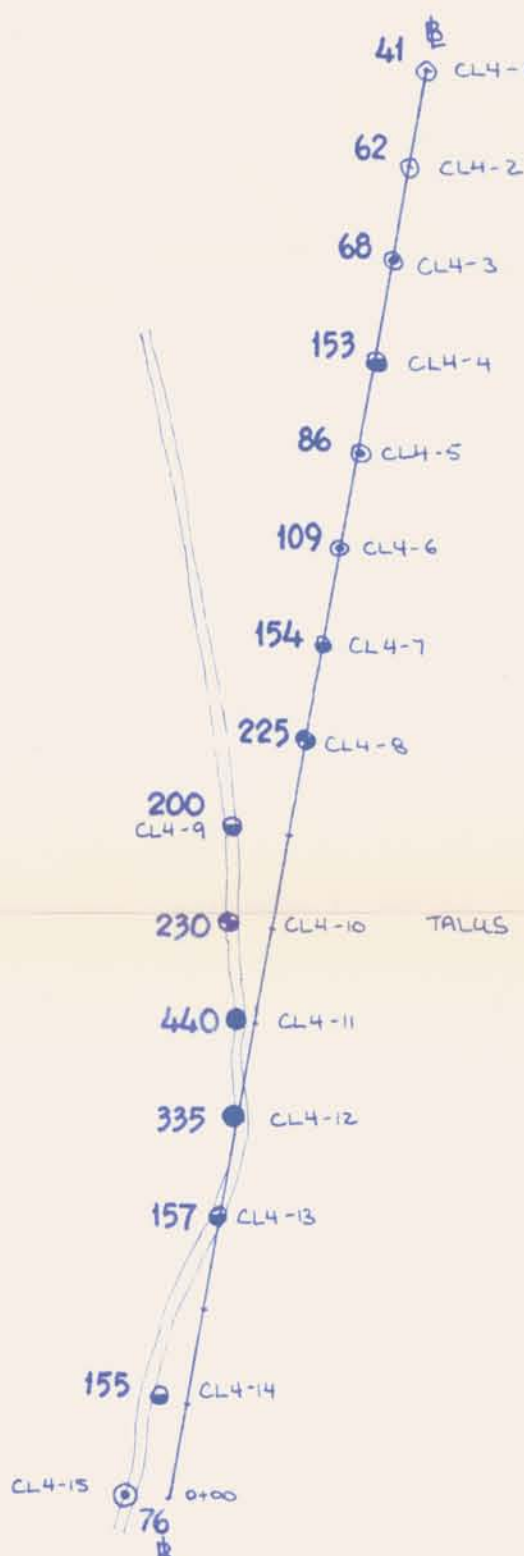
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SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROJECT: 60 DATE: 25/1/74 DRAWN: P.N.



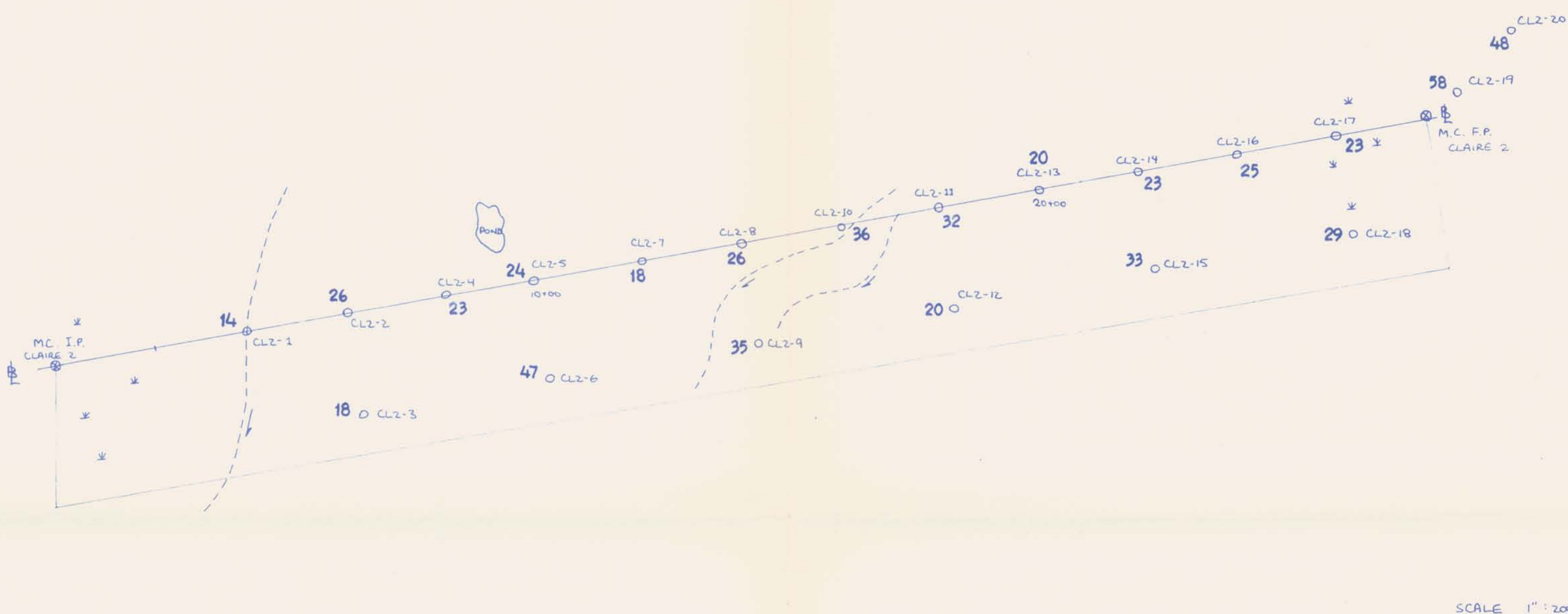
# CLAIRE 3



# CLAIRE 4



# CLAIRE 2



# CLAIRE 1



## SYMBOLS:

- DIAMOND DRILL ROAD
- WINTER ROAD
- MARSH
- MARSH BANK
- CREEK
- SEEPAGE
- CLEARING
- BOULDER TRAINS
- CONIFEROUS TREES
- CLAIMPOST
- SOIL SAMPLE LOCATION (WITH SAMPLE NO.)
- CLAIM BOUNDARIES
- BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #9

Geochemical Assays	
Symbols	Values
○	Negative 0 - 65
●	Pos. anom. 66 - 141
⊙	Prob. anom. 142 - 216
⊗	Anomalous 217 - 292
⊕	Highly anom. 293 +

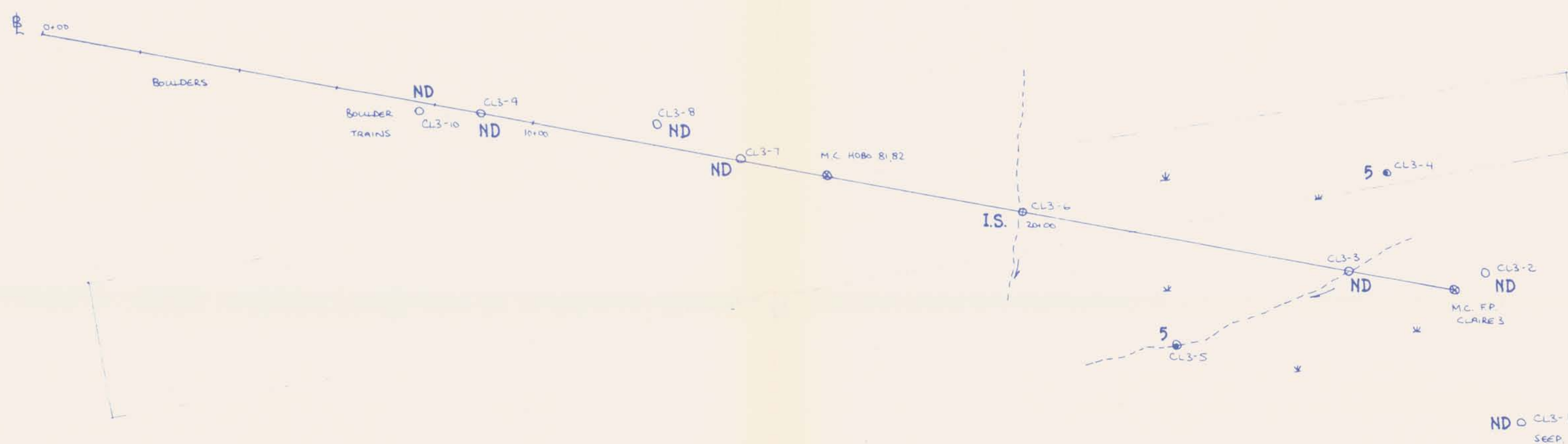
## Cu DISTRIBUTION

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SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROJECT: 60 DMS: 25/1/74 DRAWN: P.W.

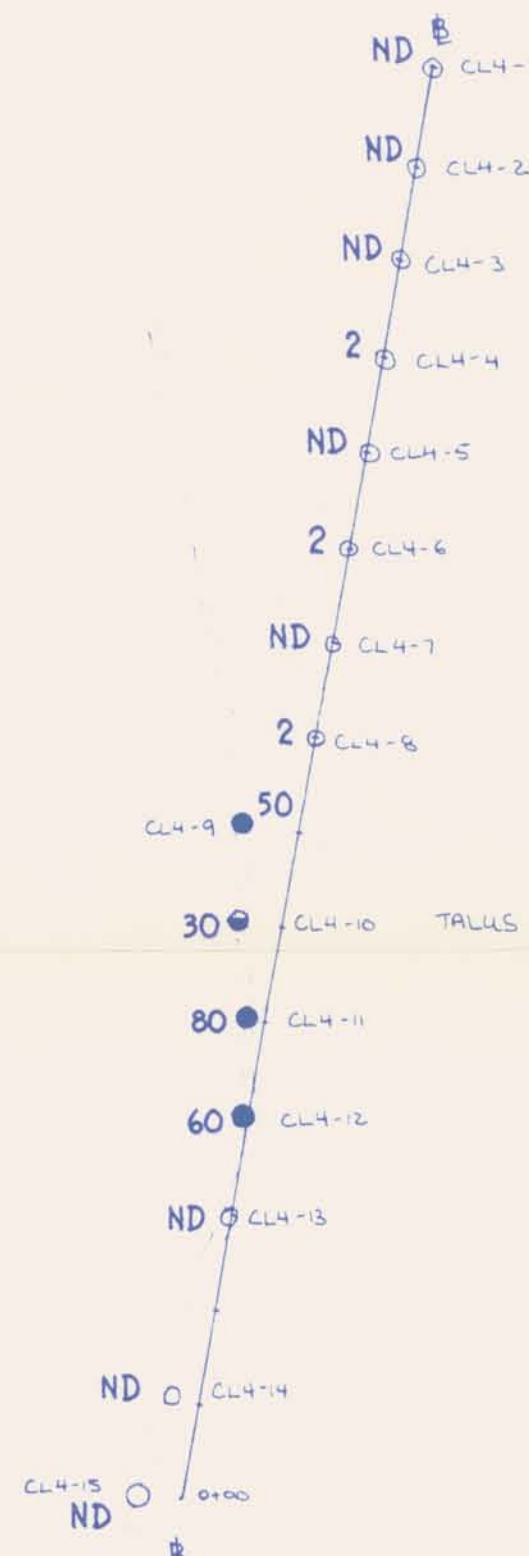


2576

CLAIRE 3

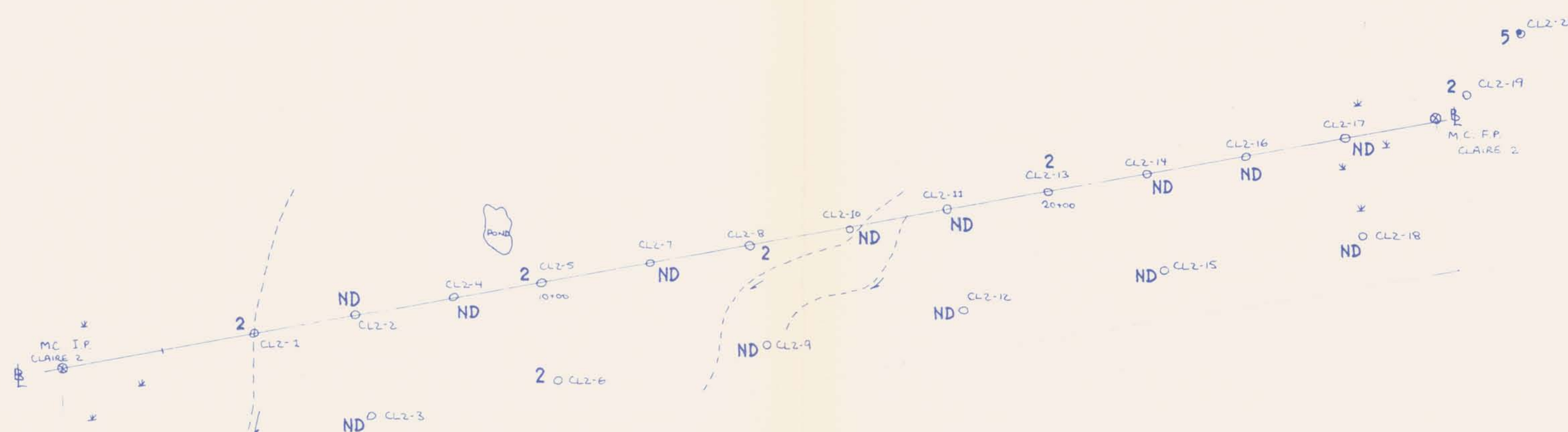


CLAIRE 4



Scale: 1" = 200'

CLAIRE 2



Scale: 1" = 200'

CLAIRE 1



Scale: 1" = 200'

SYMBOLS:

- DIAMOND DRILL ROAD
- WINTER ROAD
- MARSH
- MARSH BANK
- CREEK
- SEEPAGE
- CLEARING
- BOULDER TRAINS
- CONIFEROUS TREES
- CLAMPOST
- SOIL SAMPLE LOCATION (WITH SAMPLE NO.)
- CLAIM BOUNDARIES
- BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #10

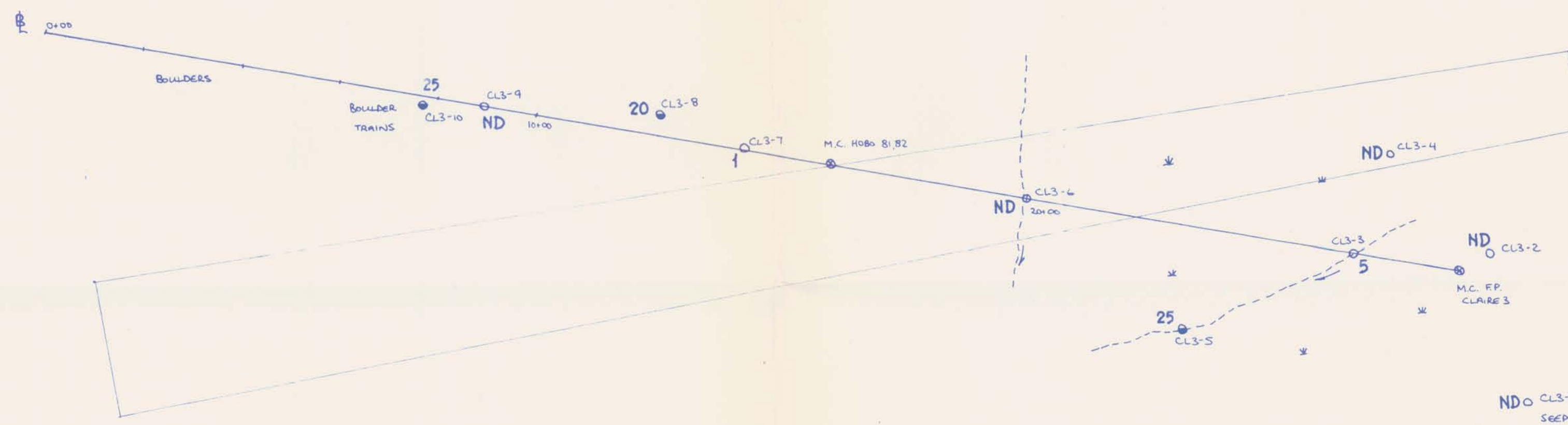
Geochemical Assays	
Symbols	Values
○	Negative 0-4
⊙	Poss. anom. 5-18
⊗	Prob. anom. 19-31
⊕	Anomalous 32-45
●	Highly anom. 46+

Sn DISTRIBUTION

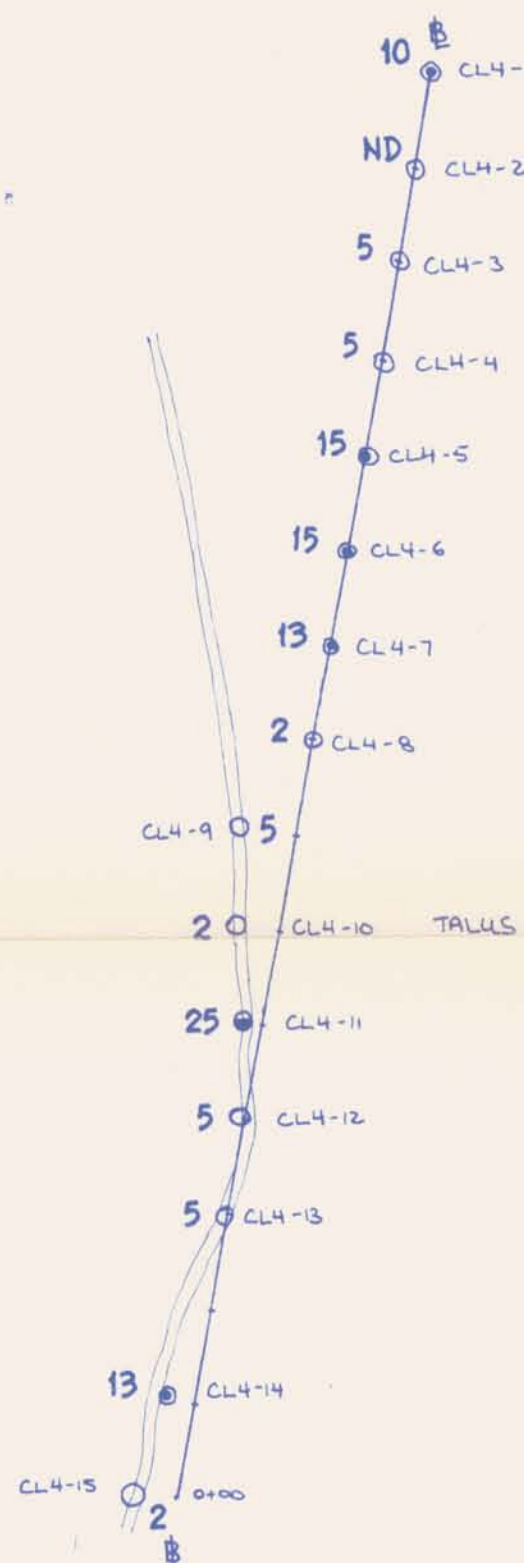
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SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROTECT 60 DATE: 25/1/76 DRAWN: P.N.J.



# CLAIRE 3

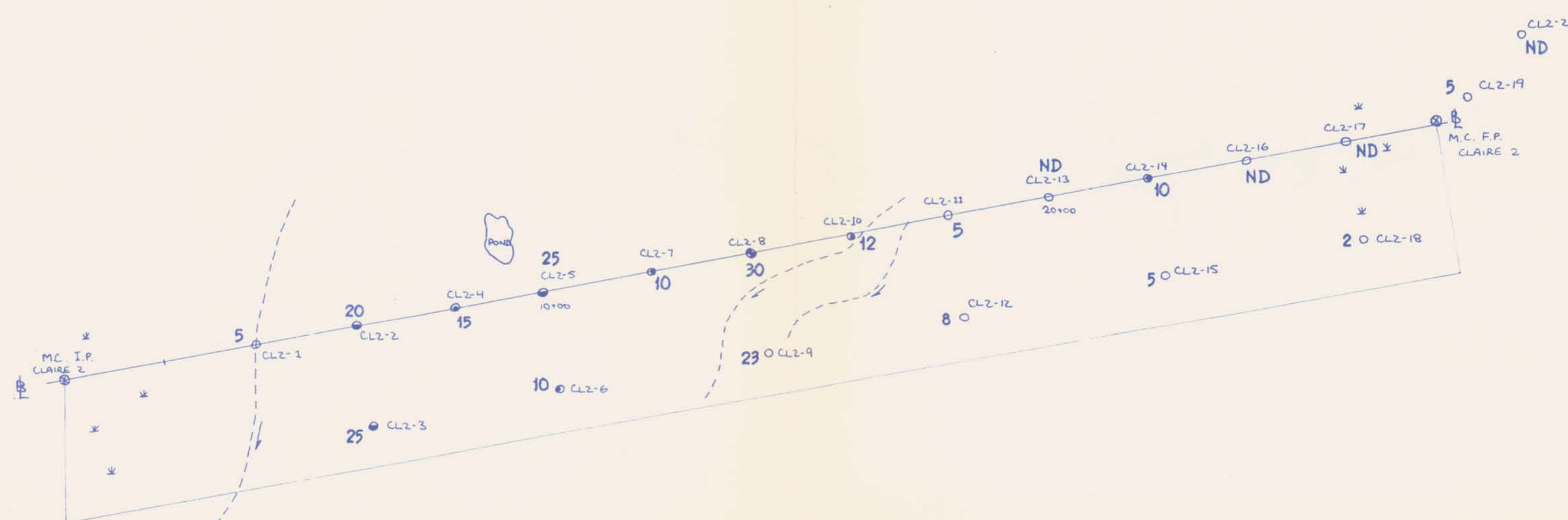


# CLAIRE 4



Scale: 1" = 200'

# CLAIRE 2



Scale: 1" = 200'

# CLAIRE 1



Scale: 1" = 200'

## SYMBOLS:

- DIAMOND DRILL ROAD
- WINTER ROAD
- MARSH
- MARSH BANK
- CREEK
- SEEPAGE
- CLEARING
- BOULDER TRAINS
- CONIFEROUS TREES
- CLAIMPOST
- SOIL SAMPLE LOCATION (WITH SAMPLE NO.)
- CLAIM BOUNDARIES
- BUCKBRUSH

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2576 MAP #11

Geochemical Assays		
Symbols		Values
○	Negative	0-9
◐	Poss. anom.	10-19
◑	Prob. anom.	20-29
●	Anomalous	30-39
●	Highly anom.	40+

## W DISTRIBUTION

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SOIL SAMPLE LOCATIONS, M.C.'s  
CLAIRE 1-4, ATLIN M.D., B.C.  
SCALE: PROJECT: 60 DATE: 25/4/74 DRAWN: P.N.