

3194

GEOCHEMICAL REPORT ON THE B&B CLAIMS, BOTANIE MOUNTAIN AREA
KAMLOOPS MINING DIVISION, BRITISH COLUMBIA

for



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

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3194 MAP

Covering: B&B Claims #10, 12, 16-20, 29-34, 41-43, 45,
5-9, 14, 22, 57-62

Located : (1) 50°20'N, 121°35'W
(2) N.T.S. Map 921/SW
(3) B&B Claims Area, 8 Miles north of Lytton
Kamloops Mining Division
British Columbia

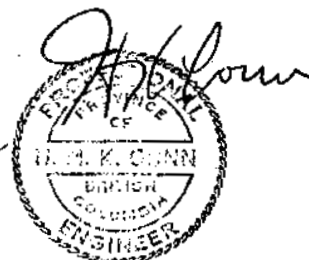
Submitted by: C.I. Choi, B.A.Sc.
C.P. Lin, M.A.
H.K. Conn, P.Eng.

C.J-M Project No. 405

Work Date : October 14 to October 30, 1970

Report Date : June 1971

Chong Palu



Expiry Date: Jan. 28, 1972

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INTRODUCTION:

General:

A detailed geochemical sampling program was carried out in the anomalous areas over the B&B group of claims during the period October 14 to 30, 1970. A total of 181 samples were collected on the traverse lines and along the contours within the copper anomalous zones by the employees of Canadian Johns-Manville Company, Limited.

In May 1969 the B&B group of claims was staked by Canadian Johns-Manville Company, Limited. Reconnaissance investigation brought attention to the copper anomaly at the Conte and Spintlum Creeks during June 1969. Therefore, the regional geochemical survey was initiated and carried out during the period August 28 to September 30, 1969 by Bondar-Clegg & Company, Limited.

The 1970 follow-up program was initiated by anomalous copper results in regional geochemical samples collected in 1969.

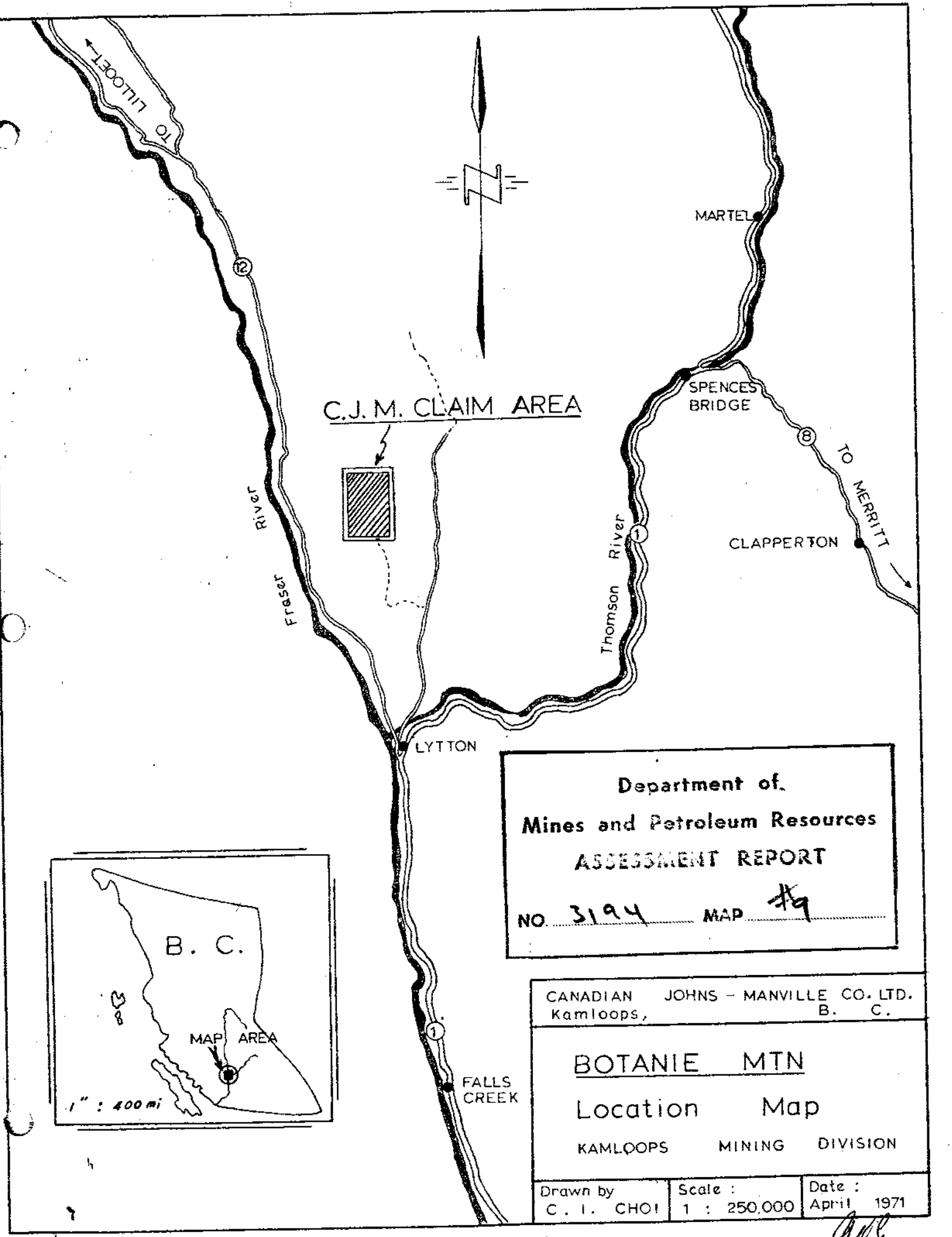
Location and Access:

The B&B claim block is located approximately eight miles north of Lytton, B.C. on the east side of the Fraser River. Lytton is on the junction of Thomson and Fraser rivers, approximately 165 miles northeast of Vancouver.

Access to the property is via a fire tower road that branches off eastward from the secondary road of Botanie Creek. The other access, from Lytton, is by highway No. 12, then along Conte or Spintlum Creeks by foot. The claim block is situated at latitude $50^{\circ}20'N$ and longitude $121^{\circ}31'W$.

Physiography and Vegetation:

The claim area is situated in the Fraser River valley. Relief, moderate to steep, is approximately 3,000 feet.



C.J.M. CLAIM AREA

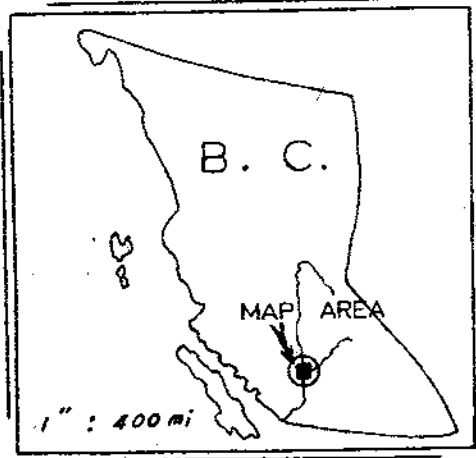


Department of.
Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3194 MAP #9

CANADIAN JOHNS - MANVILLE CO. LTD.
 Kamloops, B. C.

BOTANIE MTN
 Location Map
 KAMLOOPS MINING DIVISION

Drawn by C. I. CHOI	Scale : 1 : 250,000	Date : April 1971
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apl

Physiography and Vegetation: (Cont'd)

Elevation rises from 3,000 feet in the west to 6,000 feet along the eastern boundary.

The drainage is westward into the Fraser River. The upper part of creeks in the survey area is generally characterized by numerous cliffs and talus slopes.

The vegetation of Botanie Mountain area is represented by fir and pine trees. Medium size fir and pine are the dominant species in the claims area, but alder and grass occasionally occur.

Geology:

The claim area is underlain by three types of rock. From west to east they are the Mount Lytton batholith granodiorite of Cretaceous age, the schist and gneiss band of Triassic age, and hornblende diorite and gabbro of basic coast intrusion. All rocks are cut by quartz veins and various dykes.

The granodiorite is grey and pink in color, medium to coarse in grain size, and marked by a high content of quartz and biotite. It is essentially composed of plagioclase, quartz and biotite, with minor amounts of orthoclase and hornblende.

Contacting the granodiorite is the band of schist and gneiss of Triassic age. It occurs as lenses of metamorphic rocks in association with the Coast intrusion, and consists of chlorite and quartz-mica schists with minor hornblende schist and, in part, of granitic gneiss. They are located along the western portion of the claim block. The schist is fine to medium grained, dark grey in color, and exhibits distinctive schistosity. Locally, it is noted by the lineation. The general trend of schistosity is N 12°- 20°W, dip 20°-60°N.E.

Geology: (Cont'd)

Toward the eastern portion of the claim block the basic rocks of gabbro and hornblende diorite occur next to the metamorphic rocks. The contact between the gabbro and diorite is gradational. The gabbro is mainly composed of calcic plagioclase and hornblende with minor mica and chlorite, medium to coarse-grained and extremely heterogeneous. These basic rocks appear as local masses. Considerable amounts of secondary minerals, such as epidote and sericite, have been recognized along the fractures of basic rocks.

Quartz veins and various dykes have been observed. They cut across the rocks of Mount Lytton batholith and metamorphic band.

Mineralization:

Malachite and chalcopryrite have been found in the quartz veins of an old adit and outcrops within the southeast portion of the claim block. Sulphide mineralization in the old adit is situated approximately 1,500 feet northwest of the fire tower at an elevation of 6,000 feet. Malachite and chalcopryrite occurring in the quartz veins are associated with pyrite along fractures and small faults. The quartz veins are characterized by dark brown to orange surface stain.

Pyrite is the most common sulphide mineral found throughout the basic rocks as disseminated grains. Rusty gossan zones in the property indicate that sulphides have been leached.

GEOCHEMICAL SURVEY:

In the geochemical survey, 112 soil and 69 talus fine samples were collected. This program was a follow-up of the previous contour sampling which indicated anomalous values of copper in this area.

Field Method: (See next page)

Field Method:

A follow-up sampling program was conducted on 50-foot intervals along and across the contour traverse lines within the anomaly areas. An attempt was made to collect B-horizon soils wherever possible. In places where B-horizon is absent, A-horizon or organic material is taken. Sample sites were located in the field by pacing and altimeter and allowance for minor errors must be given to the sample stations on the location map. All sample stations were marked on the ground by flagging.

Quantitative observations concerning degree of drainage slope, color and texture of soil, depth, soil types and brief remarks were recorded at each station. Sample groups include BSC #001 - #018 and BA #001 - #170.

Analytical Techniques:

All soil and talus fines were analyzed in the Vancouver laboratories of Bondar-Clegg & Company, Limited. Tests for copper, molybdenum, and zinc were applied to 181 samples; tests for lead, manganese, iron and silver were applied to 147 samples; and tests for arsenic and gold were applied to 29 and 18 samples respectively.

The samples were dried at 40^o-50^oC in infra-red ovens and sieved to -80 mesh in Tyler sieves. An aliquot of -80 fraction was digested in hot aqua regia to extract the metals. The metals were determined by atomic absorption, and colorimetric means at various detection limits. A description of the method used is presented as follows:

<u>Element</u>	<u>Extraction Method</u>	<u>Determination Method</u>	<u>Detection Limit</u>
Cu	Hot Aqua Regia	Atomic Absorption	1 ppm
Mo	"	"	1 ppm
Pb	"	"	2 ppm
Zn	"	"	1 ppm
Mn	"	"	1 ppm
Fe	"	"	1 ppm
Ag	"	"	0.2 ppm
Au	Fire Assay + Hot Aqua Regia	Colorimetric	10 ppb
As	H ClO ₄ , -HNO ₃	"	1 ppm

Classification of Data:

Cumulative frequency distributions for each metal were plotted separately on logarithmic graph paper in different populations of soil and talus fine samples. Soil samples collected from A and B horizons were combined to make a meaningful population size. Yet, homogeneity within population is still maintained due to their genetical similarity.

Geometric classification was taken in the statistical analysis because the sample results form lognormal distribution instead of normal distribution.

Molybdenum results have been attempted for the arithmetic classification. It appears that the values are generally low and distribution is uneven. Therefore, the statistical treatment for molybdenum was omitted. This treatment was also omitted for arsenic and gold due to insufficient samples.

The sample data were classified into four anomalous categories as shown below:

Negative values	0 - b
Possibly anomalous	(b+1) - (b+s)
Probably anomalous	(b+s+1) - (b+2s)
Definitely anomalous	over (b+2s)

"b" the background is the geometric mean; "s" is the standard deviation. "b+2s" is considered as the threshold for the anomalous values. A summary table of the values in ppm for statistical classification is presented below:

		<u>b</u> (ppm)	<u>b+s</u> (ppm)	<u>b+2s</u> (ppm)
Cu	soil	78	220	980
	talus fines	153	430	870
Pb	soil	13	18	48
	talus fines	15	19	-
Zn	soil	60	97	133
	talus fines	71	107	163

Classification of Data: (Cont'd)

		<u>b (ppm)</u>	<u>b+s (ppm)</u>	<u>b+2s (ppm)</u>
Ag	soil	1.0	1.3	1.8
	talus fines	1.2	1.5	1.85
Mn	soil	685	1260	2850
	talus fines	905	1680	2700
Fe	soil	18000	25000	39000
	talus fines	18700	30000	39500
Mo		low values		
As		insufficient samples		
Au		insufficient samples		

Presentation of Data:

The geochemical results were plotted at each sample station on separate map sheets for each element, accompanied by anomalous classification charts. Standard symbols for classes of anomaly were marked at the sample stations:

Negative values	○
Possibly anomalous	⊗
Probably anomalous	◐
Definitely anomalous	●

Cumulative frequency distributions for Cu, Pb, Zn, Ag, Mn and Fe are presented on logarithmic graph paper. The distributions of soil and talus fines are shown separately along with statistical figures for data classification.

INTERPRETATION:

The three copper anomalies were outlined over the B&B claims area by previous contour geochemical survey in 1969. The anomalous areas are listed as Anomaly I, II, and III. Copper, manganese, and iron are recognized to be expressions of outcropping metal mineralization. Silver and zinc are commonly associated with copper and signify their presence.

INTERPRETATION: (Cont'd)

Iron is significant in Anomaly II within the gossan zone of strong rust and intense weathering.

The results of molybdenum in the soil and talus fine samples are low, and do not warrant further attention.

Anomaly I:

Samples No. BA #001 to #094

Location : West of fire tower; southeast corner of B&B claims

The numbers of anomalous stations by categories for the various metals within Anomaly I are shown in the following table:

	<u>Cu</u>	<u>Zn</u>	<u>Pb</u>	<u>Ag</u>	<u>Mn</u>	<u>Fe</u>
Total samples	94	94	94	94	94	94
Possibly anomalous	26	20	24	25	37	25
Probably anomalous	9	4	12	9	11	3
Definitely anomalous	1	3	2	3	2	1

The area marked by outcrops of gabbro and diorite, approximately 3,000 feet west of the fire tower, is anomalous for copper and manganese. The anomalies of copper and manganese might be caused by mineralization in the hornblende diorite. Fine disseminated metallic minerals have been observed in the hornblende diorite at the valley of Conte Creek. It seems that bornite is associated with pyrite. The hornblende and quartz diorite broadly contain fine-grained pyrite.

Anomaly II:

Samples No. BA #101 to #135

Contour

Location : Southwest of B&B claims; between 3,000 and 3,500'

	<u>Cu</u>	<u>Zn</u>	<u>Pb</u>	<u>Ag</u>	<u>Mn</u>	<u>Fe</u>
Total samples	35	35	35	35	35	35
Possibly anomalous	23	20	19	11	22	11
Probably anomalous	9	7	2	10	6	18
Definitely anomalous	-	1	-	4	1	3

Anomaly II: (Cont'd)

This anomaly occurs over the schist band of Triassic age near the granodiorite contact. The schist contains yellow to brown limonitic alteration due to oxidation and weathering.

Copper, manganese and iron are distinctly anomalous in association with weak zinc and silver anomalies. These anomalous metal values seem to suggest skarn type mineralization by hydrothermal solutions from the granodiorite of the Mount Lytton batholith.

Anomaly III:

Samples No. BA #137 to #170

Location : North of B&B Claims at 4,500 foot Contour

	<u>Cu</u>	<u>Zn</u>
Total samples	34	34
Possibly anomalous	8	20
Probably anomalous	9	12
Definitely anomalous	2	-

The strongest copper anomalous values appear to overlie the gabbro and hornblende diorite near the granodiorite contact. This anomaly is situated near the head of the northeast tributary of Spintlum Creek at an elevation of 4,500 feet. The outcrops of hornblende diorite and gabbro form the cliffs and are cut by various aplite and diabase dykes. Fine grained pyrite has been found within the diorite and gabbro. The anomaly may represent the mineralization within the more basic rock phases. Additional sampling and prospecting are necessary to further evaluate this anomaly.

RECOMMENDATIONS:

1. Anomalies II and III should be evaluated by further detailed soil sampling, both up and down slopes along the projection of the geochemical anomaly.

RECOMMENDATIONS: (Cont'd)

2. Reconnaissance geophysical surveys, E.M. or I.P., are proposed for the extensive west area of Anomaly I and II.

3. The additional claims should be staked west of Anomaly II and south of Anomaly I over possible extension of the geochemical anomalies.

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Herbert Keith Conn, of the town of Asbestos, 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 22 years and specialized in economic geology and exploration procedures for the past 21 years.

3. I am a graduate of the University of Toronto, Toronto, Ontario, with a 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 one visit to the property.



Expiry Date: Mar. 28, 1972

June 1971

STATEMENT OF QUALIFICATIONS

I, Choung II Choi, of the Town of Kamloops, British Columbia, do hereby certify that:

1. I am an exploration geologist residing at 639 Carson Crescent, Kamloops, B.C., and am employed by Canadian Johns-Manville Company, Limited.

2. I have practised as a geologist for 13 years, with the following:

1968-1971: Canadian Johns-Manville Company, Limited
(Exploration Geologist)

1958-1967: Geological Survey of Korea
(Mining Geologist & Hydro Geologist)

3. I am a graduate of the Seoul National University, Korea, with a B.A.Sc. in Geology, 1958.

4. The cost of the survey discussed in this report and analyzed in Appendix 2 are, to the best of my knowledge, correct.

5. This report is based on published and unpublished information.

April 1971

Choung I. Choi

STATEMENT OF QUALIFICATIONS

I, Chong-Pin Lin of the town of Asbestos in the Province of Quebec, hereby certify that:

1. I am a mining exploration geologist with three years of experience.

2. I am a graduate of the following universities:

National Taiwan University B.A. (Geology) 1965
(Republic of China)


Bowling Green State University M.A. (Geology) 1969
(Ohio, U.S.A.)

3. I am employed by Canadian Johns-Manville Company, Limited, P.O. Box 1500, Asbestos, Quebec, as a geologist.

4. I am an affiliate member of the Association of Exploration Geochemists and a member of the Canadian Institute of Mining and Metallurgy.

June 1971

Chong-Pin Lin



COST OF GEOCHEMICAL SURVEY

COST OF GEOCHEMICAL SURVEY
B&B CLAIMS, BOTANIE MOUNTAIN AREA

1. Soil Sampling Cost:

C.I. Choi	15 days @ \$26.95 per day	\$ 404.40
T. Whibley	15 days @ \$20.00 per day	<u>300.00</u>
		\$ 704.40

2. Room and Board:

15 crew days @ \$22.00 per day	\$ <u>330.00</u>
	\$ 330.00

3. Analytical Cost:

181 samples tested for Cu, Mo, Zn @ \$2.50/3 elements	\$ 452.50
147 samples tested for Pb, Mn, Fe @ \$2.00/3 elements	294.00
158 samples tested for Ag @ \$0.50	79.00
29 samples tested for Au @ \$3.00	87.00
18 samples tested for As @ \$1.50	27.00
Freight charges on samples	<u>15.00</u>
	\$ 954.50

4. Transportation:

Vehicle 15 days @ \$15.50 per day	\$ <u>232.50</u>
	\$ 232.50

5. Report Preparation:

Drafting C.I. Choi 11 days @ \$28.53/day	\$ 313.83
Compilation C.I. Choi 8 days @ \$28.53/day	228.24
Office supplies	<u>60.00</u>
	\$ 602.07

TOTAL

\$ 2,823.47

GEOCHEMICAL SURVEY DATA

CANADIAN JOHNS-ONVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR: C. Choi

AREA: Botanic Mtn. Area

DATE: Oct. 14, 1970

PROJECT: 405

LOCATION REF.: East of Fire Tower
5500' contour

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS			
BC-5 -001	N Ridge at 5500' contour	↓	Mountainous hill	Soil B	16" 16"	Dark brown	silt & fine sand	some roots outcrop of Gabbro.				
-002	200's from 001	↓	"	Soil B & A	14"-18"	Orange brown	silt & fine sand	lot of roots c/a				
-003	400's fr 001	↓	"	Soil B	10"-12"	Ruddish brown	silt, sand & some pebbles	c/a				
-004	600's fr 001	↓	"	Soil A & B	18"-18"	Buff Light Orange	"					
-005	800's from 001	↓	"	Soil B	5"-8"	Orange brown	silt fine sand	outcrop of Gabbro				
-006	1000's from 001	↓	"	Soil B	12"-18"	Light Orange	"	c/a				
-007	1200's from 001	↓	"	Soil B	16"	Greyish brown	silt, fine sand & some pebbles	minor roots				
-008	1400's from 001	↓	"	Soil B	8"-18"	Light Orange	silt & sand					
-009	1600's from 001	↓	"	Soil A & B	6"-12"	Dark Brown	silt, sand & some pebbles	lot of roots microstylized Area (Garrison)				
-010	1800's fr 001	↓	"	Soil A	6"-8"	Dark Grey	silt, pebbles & gravel	in talus				
-011	2000's fr 001	↓	"	Talus A	6"-10"	"	silt, pebbles & gravel	at Talus				
BCT -012	2200's from 001	↓	"	Talus A	5"-7"	Dark grey	silt, coarse sand & some pebbles	Talus				
BCT -013	2400's fr 001	↓	"	Talus A	4"-8"	Greyish black	"	Talus				
BCT -014	2600's fr 001	↓	"	Soil A	5"-6"	Dark brown	silt & sand	some roots				
-015	2800's from 001	↓	"	Soil A	6"-9"	"	fine to medium sand					

CANADIAN JOHNS-ONVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botanic Mtn. Area

 DATE: Oct. 15, 1970

 PROJECT: 405

 LOCATION REF.: Traverse Line #1
ANOMALY I

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
BA-001	5250' contour T.L. #1	↓	Mountainous hill	Soil B & A	12"	Gray & Dark brown	silt & Sand	some roots					
BA-002	50's fr 001	↓	"	Talus A	10"	Brownish black	silt, sand & Organic	Talus					
-003	100's fr 001	↓	"	Talus B	10"	Buff	silt & fine Sand	Talus					
-004	150's fr 001	↓	"	Soil A	4"	Dark brown	silt & fine Sand	some leaves					
-005	200's fr 001	↓	"	Soil A	4"	Buff	silt & fine Sand						
-006	250's fr 001	↓	"	Soil B	8"	Brown	silt & fine sand						
-007	300's fr 001	↓	"	Soil A	3"	Grayish brown	"						
-008	350's fr 001	↓	"	Soil A	6"	Bluish	silt, sand & minor roots	5000' elevation					
-009	400's fr 001	↓	"	Soil A	4"	Brownish black	silt & Medium Sand						
-010	450's fr 001	↓	"	Soil B	6"	Buff	silt & fine sand some roots						
-011	500's fr 001	↓	"	Soil B	5"	Light brown	silt & fine Sand						
-012	550's fr 001	↓	"	Soil B	6"	Brown	"	Top of ridge 4850' elevation					
-013	600's fr 001	↓	"	Soil B	4"	Grayish brown	silt & Coarse sand	"					
-014	650's SW fr 001	↘	"	Soil B	6"	"	silt & fine sand	Turn off along the side of ridge					
-015	700's SW fr 001	↘	"	Soil A	5"	Dark brown	silt & Organic						

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botanic Mts. Area

 DATE: Oct. 15, 1970

 PROJECT: 405

 LOCATION REF.: Traverse Line #1
Anomaly I

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
BA-016	750' SW fr 001	↙	Mountainous ridge	Talus B	10"	Greyish brown	silt & some gravel							
-017	800' SW fr 001	↙	"	Talus A	4"	Dark brown	silt, sand & minor rocks							
-018	850' SW fr 001	↗	"	Talus A	6"	Dark grey	silt & medium sand							
-019	900' SW fr 001	↗	"	Talus A	3"	Grey	silt & fine sand							
-020	950' SW fr 001	↗	"	Talus A	4"	Light brown	silt, sand & some gravel							
-021	1000' SW fr 001	↗	"	Talus A	5"	Brown	silt, sand & pebbles							
-022	1050' SW fr 001	↗	"	Talus A	4"	Dark grey	silt & coarse sand							
-023	1100' SW fr 001	↗	"	Talus A	6"	Light grey	silt & medium sand	405-001 elevation						
-024	1150' SW fr 001	↗	"	Talus A	3"	Light brown	silt & fine sand							
-025	1200' SW fr 001	↙	"	Talus A	4"	Greyish brown	fine sand & silt							
-026	1250' SW fr 001	↙	"	Soil A	5"	Light brown	some rocks							

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botanic Mtn. Area
Traverse Line #2, B.

 DATE: Oct 16, 1970

 PROJECT: 405

 LOCATION REF.: Analy I

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
BA-027	150' N fr Crak & 600' contour	↓	Mountain Valley	Soil A	6"	Light brown	silt & medium sand						
-028	50' S fr 27	↓	"	Soil A	5"	Dark brown	silt fine sand & some roots						
-029	100' S fr 27	↓	"	Soil A	6"	Brownish black	silt, sand & Organic						
-030	at Crak #500' contour	↓	"	Talus A	6"	Orange brown	"	* burnt, cherts & pyrite boulders in talus					
-031	50' SW fr 030	↙	"	Talus A	7"	Brown	"						
-032	100' SW fr 030	↙	Mountain hill	Soil A	5"	Light brown	silt, fine sand & some pebbles						
-033	150' SW fr 30	↙	"	Talus A	6"	Dark brown	silt, sand & Organic						
-034	200' SW fr 30	↙	"	Soil A	4"	Buff	silt & fine sand						
-035	250' SW fr 30	↓	"	Soil A	4"	Brown	silt & sand some roots						
-036	50' N fr 27	↓	"	Soil A	4"	Yellowish brown	silt & medium sand						
-037	80' N fr 27	↓	"	Soil A	2"	Buff	silt, fine sand & some roots						
-038	140' N fr 27	↓	"	Soil A	6"	Dark brown	"						
-039	200' N fr 27	↓	"	Soil A	3"	Dark gray	silt, sand & pebbles						
-040	250' N fr 27	↓	"	Soil A	4"	Dark brown	silt, fine sand & some roots						
-041	300' N fr 27	↓	"	Soil A	6"	Light brown	"						

CANADIAN JOHNSONVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botan's Mts. Area

 DATE: Oct. 16, 17, 1970

 PROJECT: 405

 LOCATION REF.: Traverse Line #2. A & B
Assembly I

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
BA-042	350' N fr 27	↓	Pointed hills	Talus A	6"	Greyish brown	silt med. sand & roots						
-043	400' N fr 27	↓	"	Soil A	4"	Light brown	fine to med. sand						
-044	450' N fr 27	↓	"	Soil A	5"	Ruddish brown	fine sand silt & lot of roots						
-045	500' N fr 27	↓	"	Soil A	5"	Light Grey	silt fine sand						
-046	550' N fr 27	↓	"	Soil A	4"	Greyish brown	"						
<u>October 17, 1970</u>													
BA-047	at creek 450' colour	↓	Madison Valley	Talus A	6"	Brownish black	silt, sand & organic						
-048	50' N fr 47	↓	"	Talus A	6"	Brown	"	rounded sulfide minerals in talus					
-049	100' N fr 47	↓	"	Talus A	6"	Dark brown	"						
-050	150' N from 47	↓	Mountain hill	Talus A	5"	Dark brown	silt fine sand						
-051	200' N fr 47	↓	"	Talus A	6"	Buff	silt, pebbles & gravel						
-052	250' N fr 47 B5K-237	↓	"	Soil A	8"	Dark brown	silt fine sand	B5K-237					
-053	300' N fr 47	↓	"	Soil A	7"	Brown	"						
-054	350' N fr 47	↓	"	Talus A	7"	Ruddish brown	Sand, pebbles & gravel						
-055	400' N fr 47	↓	"	Talus "	8"	Greyish black	silt med. sand						

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botanic Mtn. Area

 DATE: Oct 21, 1970

 PROJECT: 405

 LOCATION REF.: T.L. #3
ANOMALY I

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
BA-063	56' S from Creek 5500' elevation	↓	Mountainous Valley	Soil A	7"	Brownish black	Silt, medium sand & talus rocks						
-064	50' S from #63	↓	" "	Talus B	6"	Yellowish brown	silt, fine sand & pebbles						
-065	100' S from #63	↓	Mountainous hill	Talus B	7"	Light br. & brownish black	silt, sand & some rocks						
-066	150' S from #63	↓	" "	Talus B	5"	Dark brown	silt, fine sand & minor rocks						
-067	200' S from #63	↓	" "	Talus B	5"	Brown	silt, sand & some rocks	5500' elevation					
-068	250' S from #63	↓	" "	Soil B	4"	Dark brown	silt, sand & gravel						
-069	300' S from #63	↓	" "	Talus B	5"	Orange & Dark brown	silt & gravel						
-070	350' S	↓	" "	Soil B	7"	Reddish brown	silt & medium sand	Timber line					
-071	400' S	↓	" "	Soil B	8"	Yellowish brown	silt & some pebbles						
-072	450' S from #63	↓	" "	Soil B	6"	Orange brown	silt, sand & some pebbles						
-073	500' S	↓	" "	Soil B	7"	Reddish brown	silt & medium sand	5480' elevation					
-074	550' S	↓	" "	Soil B	6"	Orange brown	silt, sand & minor rocks						
-075	600' S	↓	" "	Soil B	4"	Dark brown	silt, sand & rocks						
-076	650' S	↓	Mountainous ridge	Soil B	6"	Reddish brown	"						
-077	700' S	↓	" "	Soil B	7"	Grey & brownish black	"	5440' Elevation					

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botanic Mtn. Area

 DATE: Oct. 21, 1970

 PROJECT: 405

 LOCATION REF: T.L. #3
Anomaly I

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
BA-078	750' S from #63	↓	mountainous hill	Soil B	5"	Dark brown	silt, sand & roots							
-079	800' S	↓	"	Soil A	4"	Brownish black	silt & roots	5420' Elevation						
-080	850' S	↓	"	Soil B	4"	Dark brown	silt & medium sand							
-081	900' S	↓	"	Soil B	7"	Reddish brown	silt & fine sand							
-082	950' S	↓	"	Soil B	5"	"	"							
-083	1000' S	↓	"	Soil B	7"	"	silt, sand & some roots	5400' Elevation						
-084	1050' S	↓	"	Soil B	8"	Dark brown	"							
-085	1100' S	↓	"	Soil B	6"	Brownish black	silt, sand & minor roots							
-086	1150' S	↓	"	Soil A	5"	"	"	5350' Elevation						
-087	1200' S	↓	"	Soil B	7"	Reddish brown	silt & fine sand							
-088	1250' S	↓	"	Soil B	6"	Dark reddish brown	silt, sand & minor roots							
-089	1300' S	↓	"	Soil B	5"	Dark brown	silt & fine sand							
-090	1350' S	↓	"	Soil B	7"	Greyish brown	" & some roots							
-091	1400' S	↓	"	Soil B	5"	Yellowish brown	silt & fine sand							
-092	1450' S	↓	"	Soil B	5"	Light Orange	"							

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: P. Choi

 AREA: Botanic Mts. Area

 DATE: Oct. 18, 1970

 PROJECT: 405

 LOCATION REF.: 3500' Contour. Anomaly III.

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
BA-101	50' NW from 101 3500' contour	↓	Mountainous Valley	Talus A	6"	Dark brown	silt. sand & gravel	Talu iron staining included.					
-102	50' NW from 101	↓	"	Talus A	4"	Brown	Gravel & pebbles						
-103	100' NW from 101	↓	Mountainous Hill	Talus B	6"	Light brown	Sand, pebbles & gravel	iron staining pebbles ^{effluvia} visible.					
-104	150' NW from 101	↓	"	Talus A	5"	Greyish blue	"						
-105	200' NW from 101	↓	"	Talus B	6"	Light grey	"						
-106	100' SW from 105	↓	"	Talus B	6"	Brown	medium to coarse sand						
-107	50' NW from 106	↓	"	Talus B	5"	Dark brown	"						
-108	100' NW from 106	↓	"	Talus A	4"	Greyish brown	silt. coarse sand & pebbles						
-109	150' NW from 106	↓	"	Soil B	6"	Light grey	silt & coarse sand						
-110	200' NW from 106	↓	"	Soil B	7"	Brown	silt & sand						
-111	250' NW from 106	↓	"	Soil A	2"	light brown	silt. medium sand w/ organic						
-112	300' NW from 106	↓	"	Soil B	5"	Grey	silt. medium sand & fine pebbles						
-113	350' NW from 106	↓	"	Soil B	6"	Brown	"						
-114	400' NW from 106	↓	"	Soil A	7"	Reddish Brown	silt. coarse sand & pebbles						
-115	450' NW from 106	↓	"	Talus A	6"	Yellowish brown	silt & coarse sand						

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Chei

 AREA: Botanic Mtn. Area

 DATE: Oct. 18 1970

 PROJECT: 405

 LOCATION REF.: 3500' & 3200' Contours
ANOMALY III

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
BA-116	500' NW from 106	↓	Mountainous Ridge	Soil B	7"	Dark Brown	silt. Medium Sand							
-117	550' NW from 106	↓	"	Soil A	4"	"	silt. fine to medium sand							
-118	600' NW from 106	↓	Mountainous Hill	Talus B	6"	Brown	silt. Gravel & Pebbles							
-119	650' NW from 106	↓	"	Soil B	4"	"	silt. Medium Sand							
-120	700' NW from 106	↓	"	Soil A	6"	Greyish black	silt. sand & gravel							
3250' Contour														
BA-121	500' SW from 120	↓	Mountainous Valley	Talus A	4"	Brown	sand, silt & gravel							
-122	50' SE from 121	↓	"	Talus A	6"	"	Coarse sand, pebbles, & gravel							
-123	100' SE from 121	↓	Mountainous Ridge	Soil B	5"	Greyish Brown	silt. sand & some pebbles							
-124	150' SE from 121	↓	"	Soil B	6"	Brown	fine to medium sand							
-125	200' SE from 121	↓	"	Soil B	5"	Dark brown	silt, fine sand & gravel							
-126	250' SE from 121	↓	Mountainous Hill	Soil B	6"	Brown	"							
-127	300' SE from 121	↓	"	Talus A	4"	Greyish brown	sand & gravel							
-128	350' SE from 121	↓	"	Talus A	4"	Greyish blue	silt. sand & minor roots							
-129	400' SE from 121	↓	"	Soil B	6"	Brown	sand & gravel							

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: C. Choi

 AREA: Botanic Mts. Area

 DATE: Oct 18 / 1970

 PROJECT: 405

 LOCATION REF.: 3200' Contour ANOMALY III

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
BA -130	450' SE fr 101	↓	Mountainous hill	Talus A	6"	Dark brown	Silt. Sand & gravel						
-131	500' SE fr 121	↓	"	Talus A	4"	"	Silt Coarse sand Organic materials						
-132	550' SE fr 121	↓	"	Talus A	3"	Yellowish brown	mainly Gravel & some silt						
-133	600' SE fr 121	↓	"	Talus A	6"	"	Gravel Pebbles						
-134	650' SE fr 121	↓	"	Talus A	3"	Orange brown	Gravel & silt						
-135	700' SE fr 121	↓	"	Talus A	4"	"	"						
736	750' SE fr 121		Talus	no	Soil	this station	at the creek						

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: G. Choi

 AREA: Colacic Mtn. Area

 DATE: Oct 30, 1970

 PROJECT: 405

 LOCATION REF.: ANOMALY II
4500' Contour

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
BA -137	300' NW fr Spiritum Cr.	↓	Mountainous h: #	Talus B	6"	Yellowish Brown	silt medium sand & some gravels							
-138	50' SW fr 137	↓	"	Talus B	7"	Light Grey	silt fine sand							
-139	100' SW fr 137	↓	"	Talus B	4"	Dark brown	silt fine to coarse sand							
-140	150' SW fr 137	↓	"	Talus B	6"	Grey	Coarse sand & pebbles							
-141	200' SW fr 137	↘	"	Soil A	4"	Brownish black	medium sand & Organic material							
-142	250' SW fr 137	↓	"	Soil B	6"	Dark Brown	silt & fine sand							
-143	300' SW fr 137	↓	"	Soil B	4"	Yellowish brown	fine sand, silt & some gravels							
-144	350' WSW fr 137	↓	"	Talus B	5"	Dark brown	Coarse sand & Gravel	in talus						
-145	450' SW fr 137	↓	"	Soil B	6"	Yellowish brown	silt, coarse sand & gravel							
-146	50' W fr 145	↓	Mountainous Ridge	Soil B	5"	Grey	silt & medium sand							
-147	100' W fr 145	↓	"	Soil B	4"	Dark brown	silt & coarse sand							
-148	150' W fr 145	↓	"	Soil B	5"	Greyish brown	"							
-149	200' W fr 145	↓	"	Talus B	6"	Dark brown	silt & Gravel	Talus						
-150	250' W fr 145	↓	"	Talus B	7"	"	"							
-151	300' W fr 145	↓	"	Soil B	6"	"	silt medium to coarse sand							

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

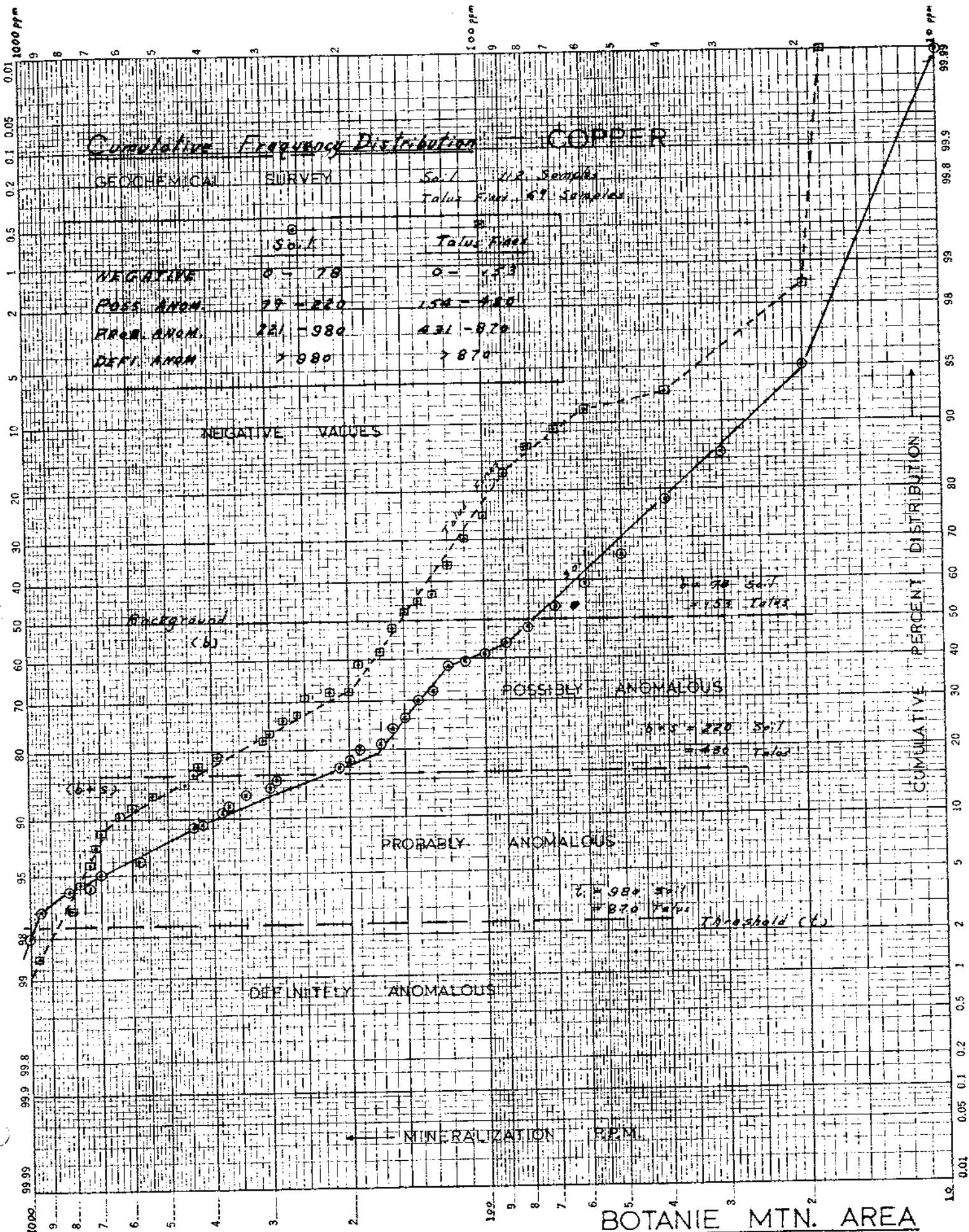
AREA: Botanic Mtn. AreaLOCATION REF. ANIMALY IV
4500' ContourDATE Oct. 30, 1970PROJECT: 405

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
-152	50' NW fr 151	↓	Mountainous hill	Soil B	5"	Yellowish brown	silt medium to coarse sand						
-153	100' NW fr 151	↓	"	Talus B	6"	Greyish brown	silt fine sand & some gravel						
-154	150' NW from 151	↓	"	Soil B	3"	Brown	silt fine sand & minor organic						
-155	200' NW from 151	↓	"	Soil B	4"	Dark brown	"						
-156	250' NW from 151	↓	Mountainous Valley	Soil B	5"	"	fine sand some organic						
-157	300' NW fr 151	↓	"	Talus B	5"	Brown	silt coarse sand & gravel						
-158	60' SW fr 157	→→→	"	Talus B	5"	Greyish black	silt medium sand	Cliff					
-159	50' W fr 158	↓	"	Talus B	4"	Grey	"						
-160	100' W fr 158	↓	"	Soil B	5"	Yellowish brown	silt & fine sand						
-161	150' W fr 158	↓	"	Soil B	5"	Dark brown	silt fine sand minor organic						
-162	200' W fr 158	↓	"	Soil B	3"	Dark Grey	silt fine to medium sand						
-163	250' W from 158	↓	"	Soil B	6"	Brown	"						
-164	300' W from 158	↓	"	Talus B	4"	Greyish brown	silt medium to coarse sand						
-165	350' W from 158	↓	"	Talus B	5"	Dark brown	silt coarse sand & gravel						
-166	400' W from 158	↓	"	Soil B	4"	Greyish black	silt coarse sand & organic						

DATA STATISTICS

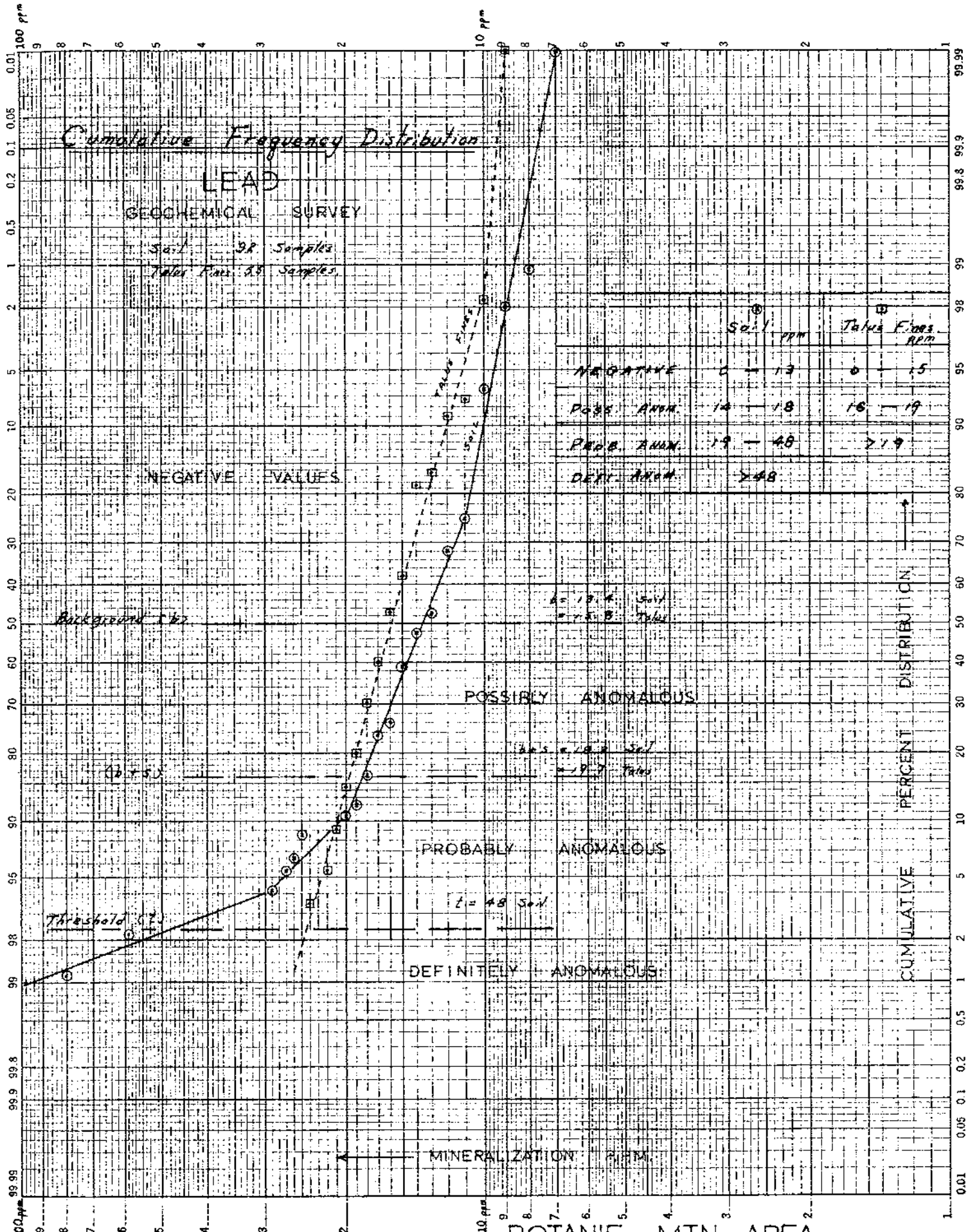
CUMULATIVE FREQUENCY DISTRIBUTION

For Cu, Zn, Pb, Ag, Mn, Fe (Soil & Talus Fines)



Drawn by : C. I. Choi
 DATE : April 1971

PROJ. 405



46 8043
PROBABILITY
X 2 LOG CYCLES
KEUFFEL & ESSER CO.

Cumulative Frequency Distribution ZINC

GEOCHEMICAL SURVEY

Soil 142 Samples
Talus Fines 69 Samples

	Soil ppm	Talus Fines ppm
NEGATIVE	0 - 60	0 - 41
POSS. ANOM.	61 - 97	72 - 107
PROB. ANOM.	98 - 133	108 - 153
DEF. ANOM.	> 133	> 153

NEGATIVE VALUES

Background (b)

61 - 60 Soil
+ 71 Talus

POSSIBLY ANOMALOUS

(6 x 53)

61 - 97 Soil
+ 107 Talus

PROBABLY ANOMALOUS

Threshold (a)

98 - 133 Soil
+ 153 Talus

DEFINITELY ANOMALOUS

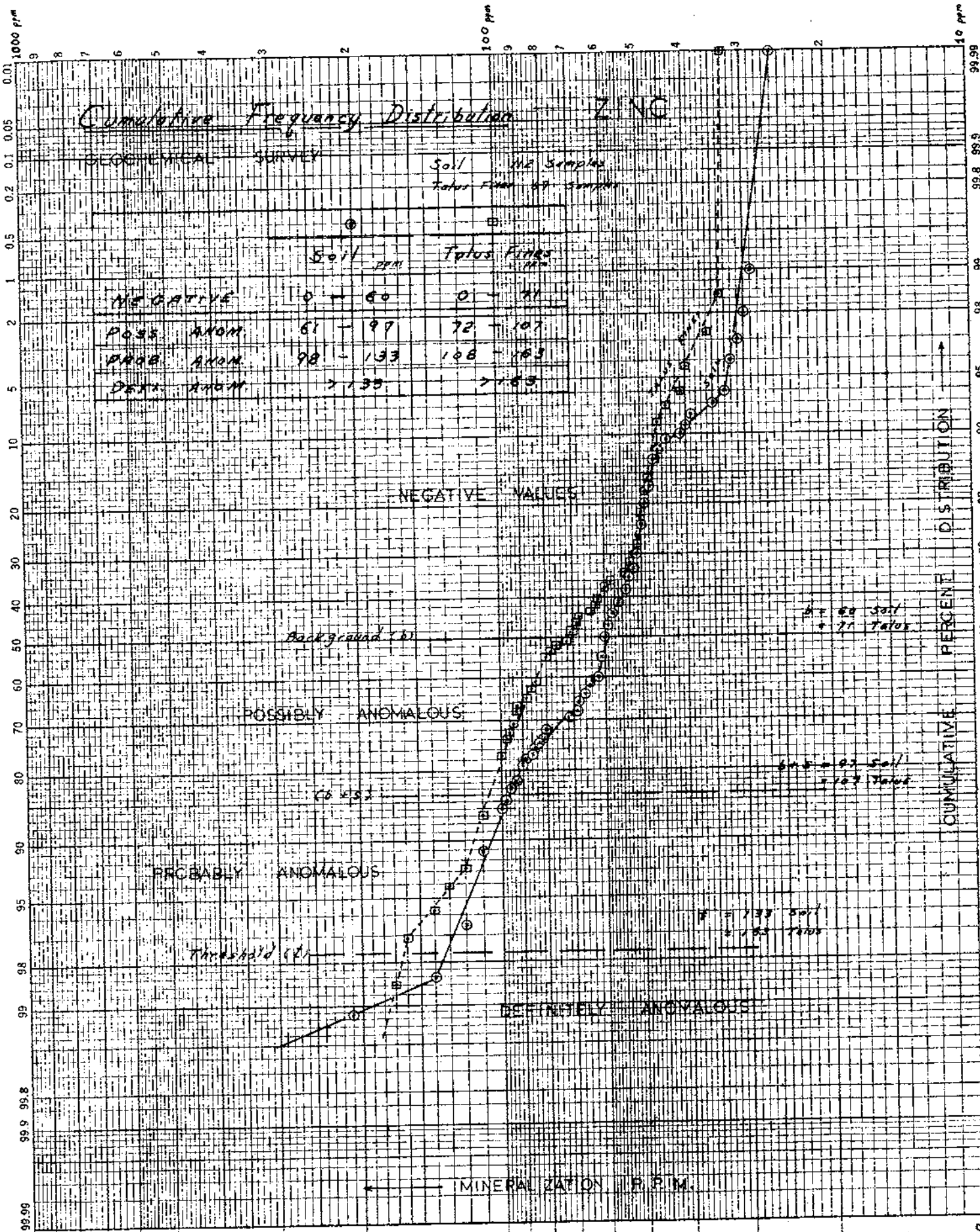
MINERAL ZATION (P.P.M.)

BOTANIE MTN. AREA PROJ. 405

Drawn by : C. I. Choi
DATE : April 1971

KANLOOPS, B. C.

PROBABILITY 46 8043
X 2 LOG CYCLES
MADE IN U.S.A.
KEUFFEL & ESSER CO.

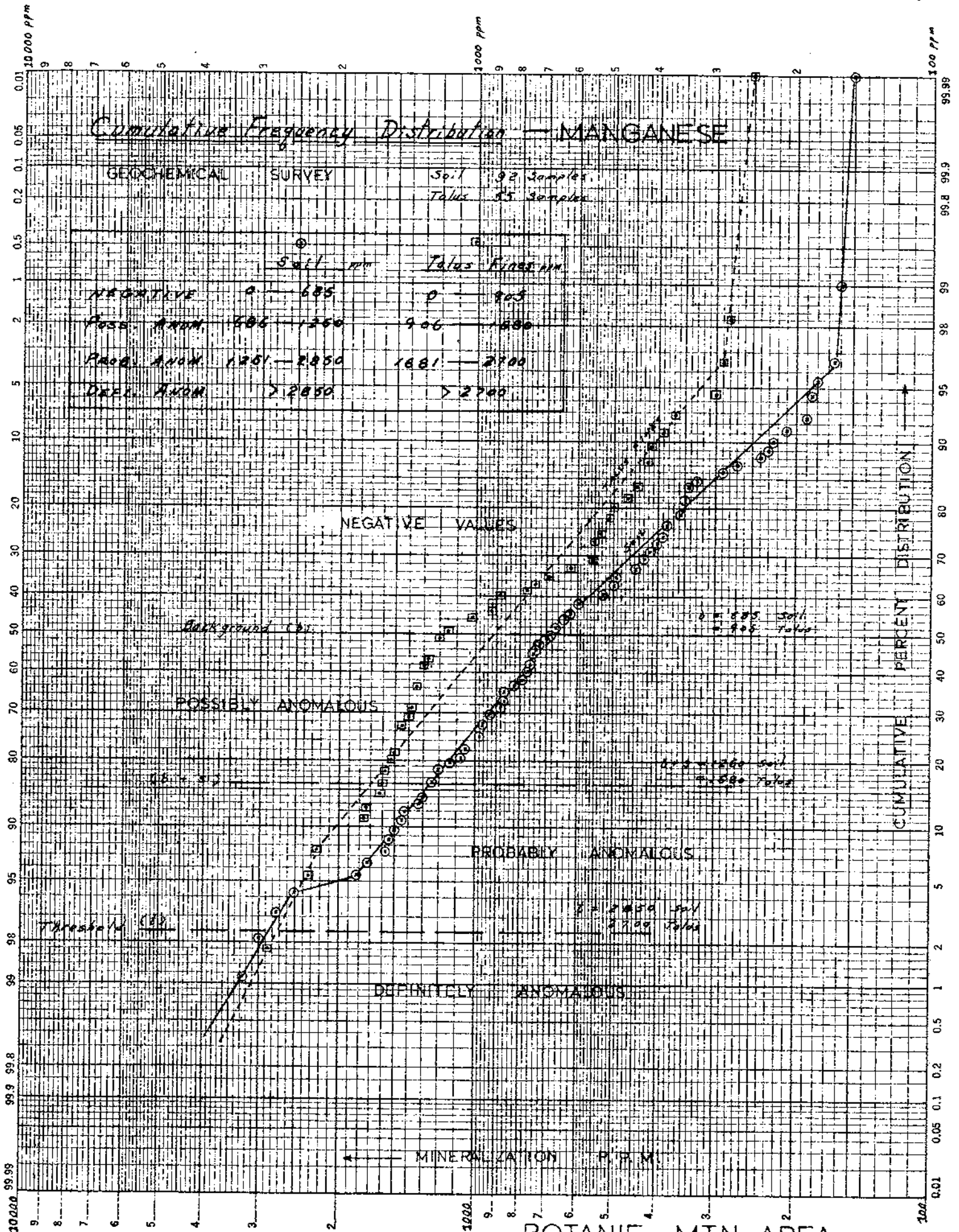


Cumulative Frequency Distribution — MANGANESE

GEOCHEMICAL SURVEY

Soil 92 Samples
Talus 55 Samples

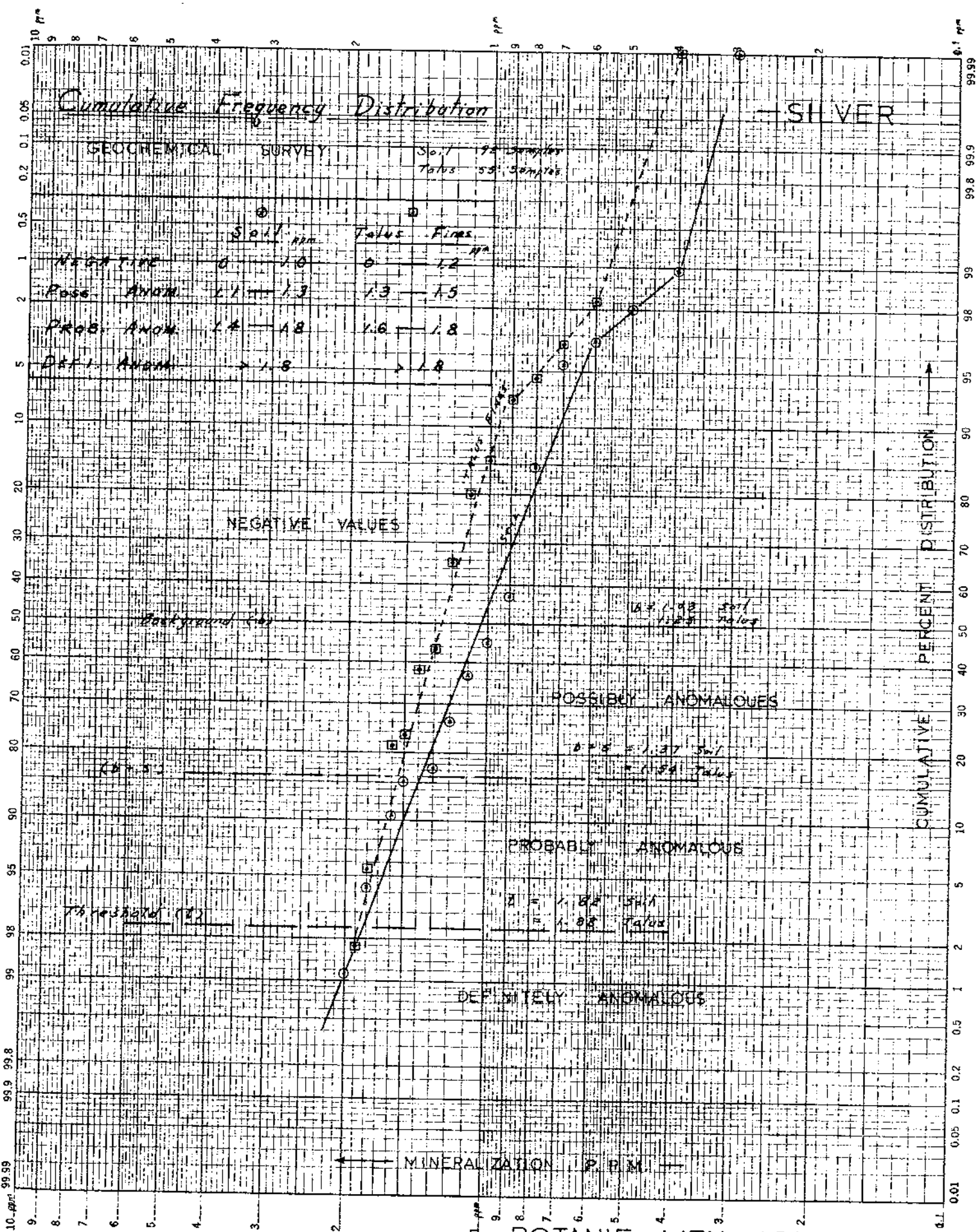
	Soil, ppm	Talus, ppm
NEGATIVE	0 — 685	0 — 905
POSS. ANOM.	686 — 1250	906 — 1880
PROB. ANOM.	1251 — 2050	1881 — 2700
DEFL. ANOM.	> 2050	> 2700



K&E PROBABILITY
 X 2 LOG CYCLES
 KEUFFEL & ESSER CO.

Drawn by : C. I. Choi
 Date : April 1971

BOTANIC MTN. AREA
 Kamloops. B. C. PROJ. 405



K&E
PROBABILITY
46 8043
X 2 LOG CYCLES
MADE IN U.S.A.
KEUFFEL & ESSER CO.

Drawn by : C. I. Choi
Date : April 1971

BOTANIE MTN. AREA PROJ. 405
KAMLOOPS, B. C.

Cumulative Frequency Distribution

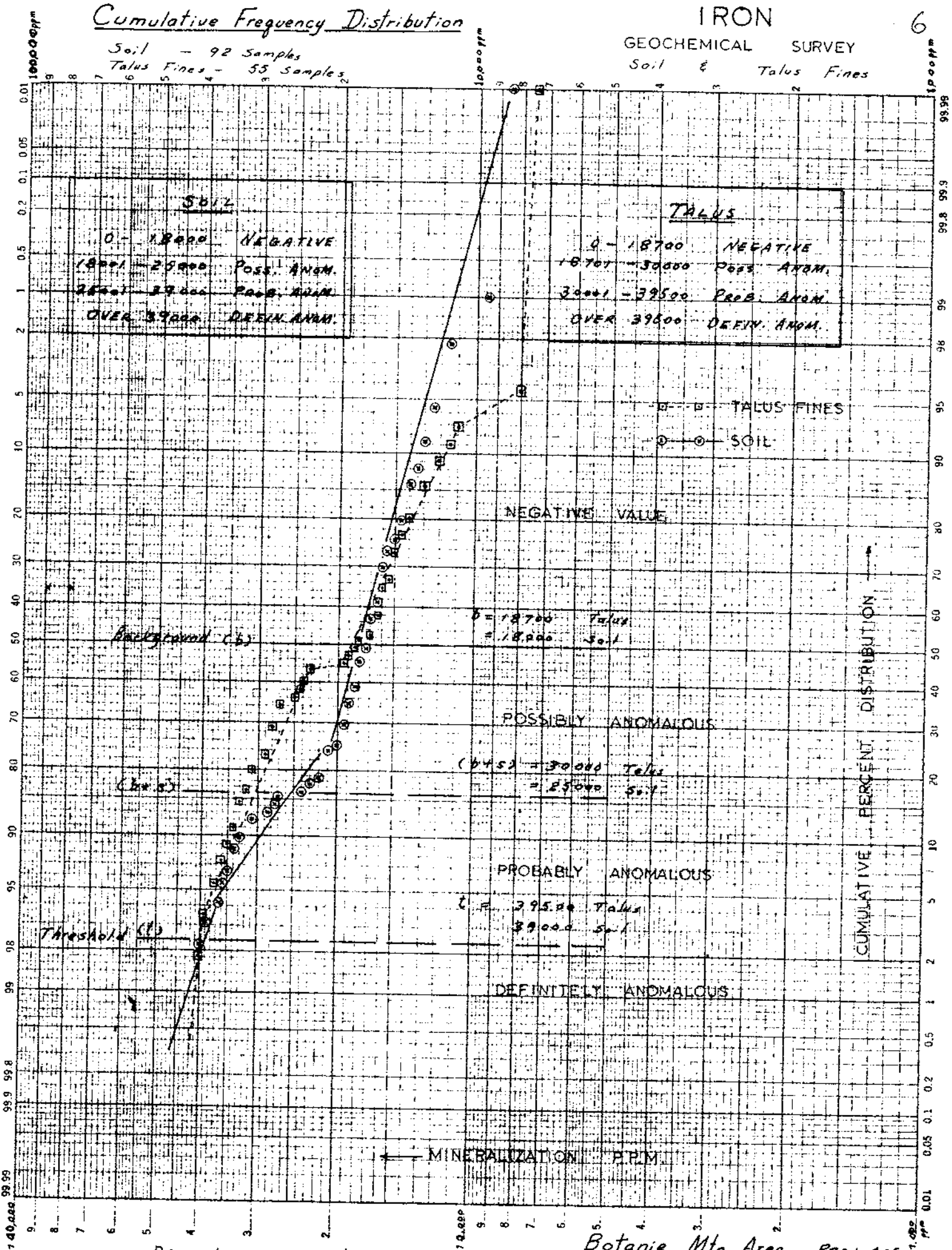
IRON

6

GEOCHEMICAL SURVEY

Soil & Talus Fines

Soil - 92 Samples
Talus Fines - 55 Samples



SOIL

0 - 18200	NEGATIVE
18201 - 25000	POSS. ANOM.
25001 - 39000	PROB. ANOM.
OVER 39000	DEFIN. ANOM.

TALUS

0 - 18700	NEGATIVE
18701 - 30000	POSS. ANOM.
30001 - 39500	PROB. ANOM.
OVER 39500	DEFIN. ANOM.

TALUS FINES
SOIL

NEGATIVE VALUE

Background (2)

b = 18700 Talus
= 18200 Soil

POSSIBLY ANOMALOUS

Threshold (1)

(b45) = 30000 Talus
= 25000 Soil

PROBABLY ANOMALOUS

c = 39500 Talus
39000 Soil

DEFINITELY ANOMALOUS

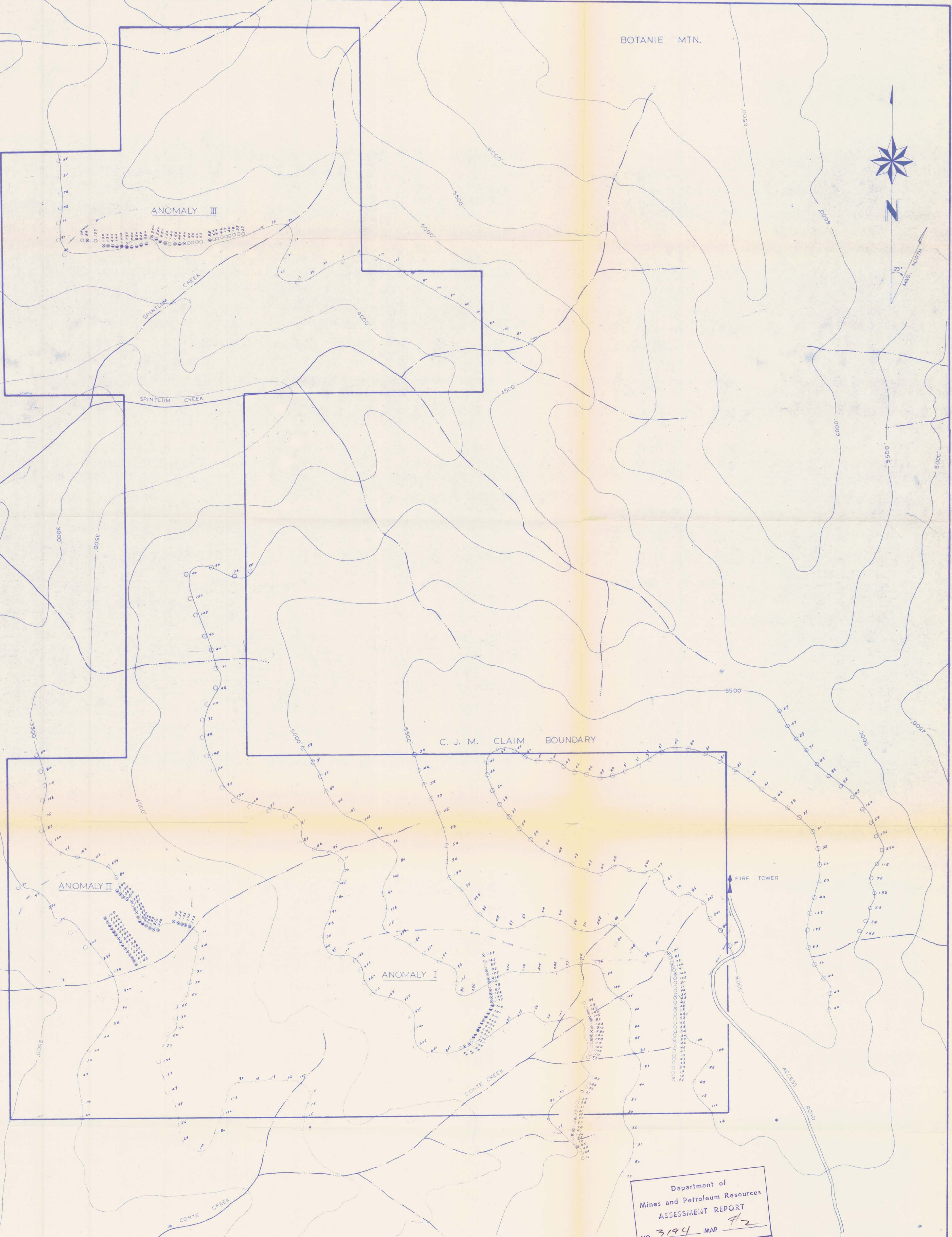
MINERALIZATION PPM

KE
 PROBABILITY
 46 2043
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.

Drawn by : C. I. Choi
Date : April 1971

Botanie Mtn. Area Proj. 405
Kamloops, B. C.

BOTANIE MTN.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP 72

ANOMALOUS CATEGORIES

COLOUR SYMBOL	CATEGORY	SOIL b = 78 ppm		TRILUS FINES b = 153 ppm
○	NEGATIVE	0 — 78	< b	0 — 153
⊙	POSSIBLY ANOMALOUS	79 — 220	b+1 to b+5	154 — 430
●	PROBABLY ANOMALOUS	221 — 980	b+5+1 to b+25	431 — 870
●	DEFINITELY ANOMALOUS	> 980	> b+25	> 870

LEGEND

- DATA PRESENTATION
- Cu (ppm) ——— 125
 - ——— SAMPLE LOCATION
 - ——— PREVIOUS SAMPLE LOCATION (BONDAR CLEGG CO.)
 - ANOMALY AREA

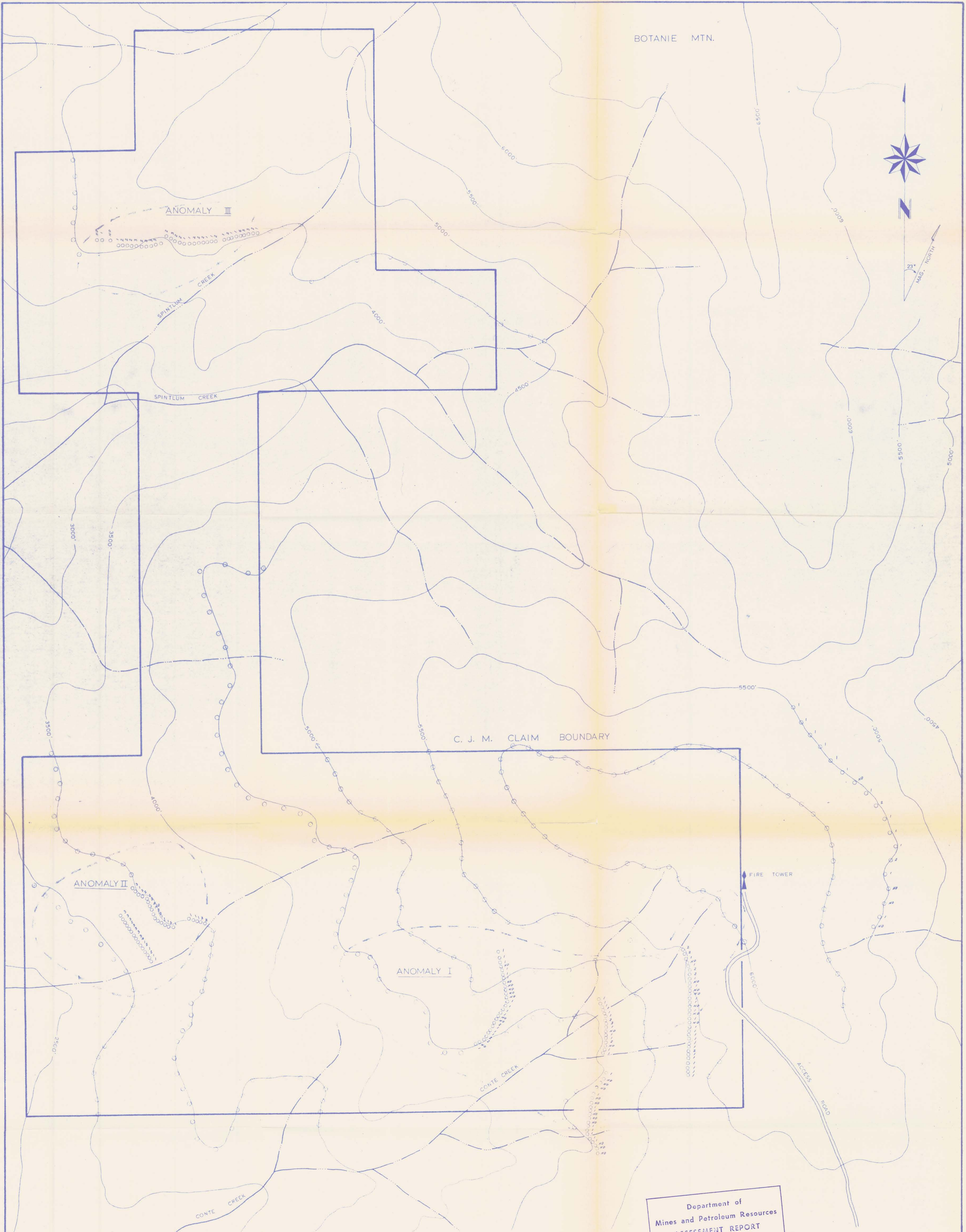


CANADIAN JOHNS-MANVILLE CO. LTD.
KAMLOOPS, B. C.

BOTANIE MTN.
PROJECT No. 405
GEOCHEMICAL SURVEY
COPPER (ppm) DISTRIBUTION

DRAWN BY: C.I.O.C.I. SCALE: 1" = 500' DATE: APRIL 1971

BOTANIE MTN.



C. J. M. CLAIM BOUNDARY

ANOMALY III

ANOMALY II

ANOMALY I

FIRE TOWER

ACCESS ROAD

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP #3



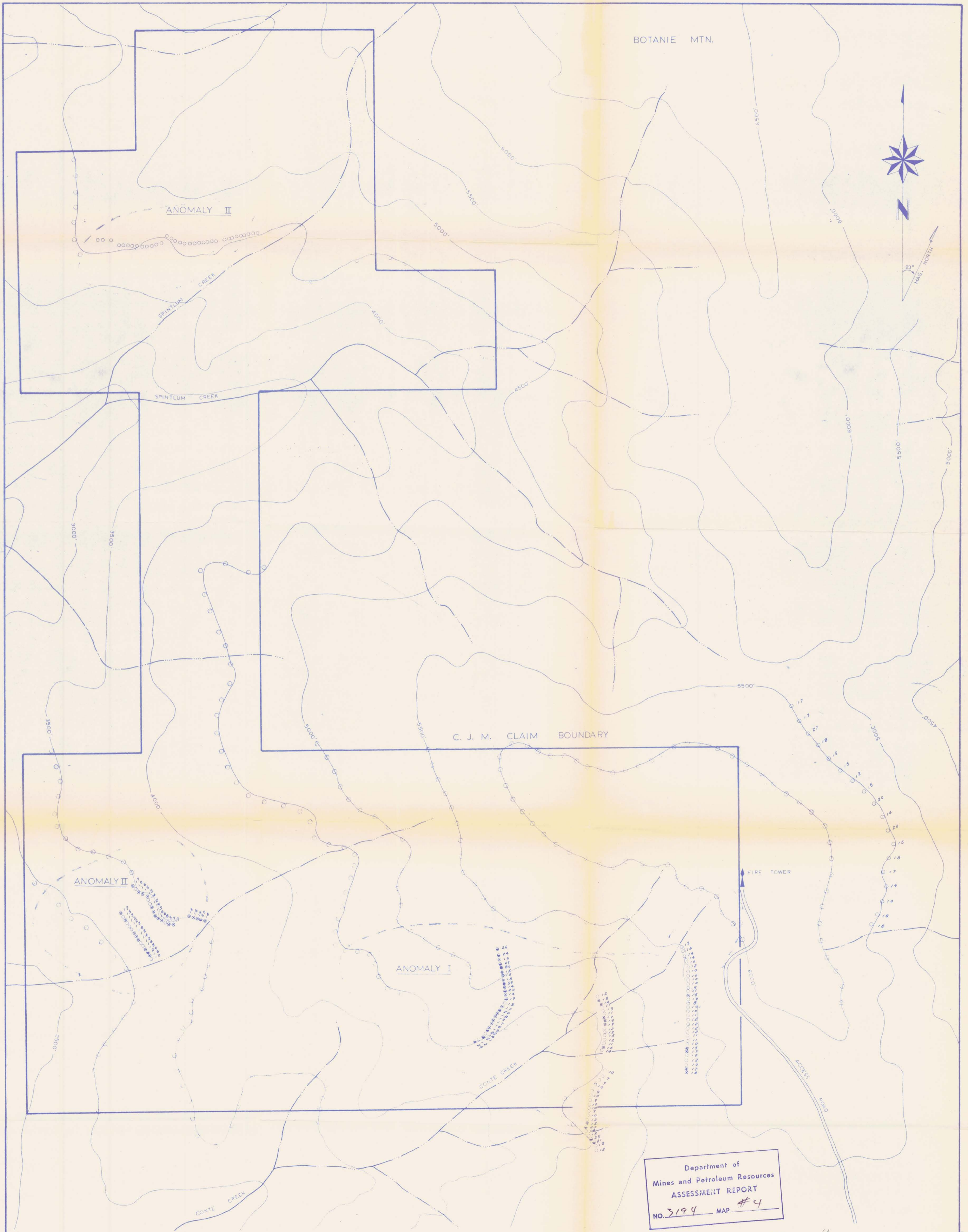
- LEGEND**
- DATA PRESENTATION
- Mo (ppm) ----- 2
 - o ----- SAMPLE LOCATION
 - ND ----- NOT DETECT
 - ANOMALY AREA

CANADIAN JOHNS-MANVILLE CO. LTD.
KAMLOOPS B. C.

BOTANIE MTN.
PROJECT No. 405
GEOCHEMICAL SURVEY
MOLYBDENUM (ppm) DISTRIBUTION

DRAWN BY: C.I. CHOI SCALE: 1" = 500' DATE: APRIL 1971

BOTANIE MTN.



C. J. M. CLAIM BOUNDARY

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP #4

ANOMALOUS CATEGORIES

COLOUR SYMBOL	CATEGORY	SOIL ppm		TALUS FINES ppm
○	NEGATIVE	0 - 13	< 6	0 - 15
⊙	POSSIBLY ANOMALOUS	14 - 18	6+1 to 6+3	16 - 19
⊚	PROBABLY ANOMALOUS	19 - 48	6+1 to 6+23	> 19
●	DEFINITELY ANOMALOUS	> 48	> 6+23	

LEGEND

- DATA PRESENTATION
- Pb (ppm) ----- / 8
 - ----- SAMPLE LOCATION
 - ----- PREVIOUS SAMPLE LOCATION
 - ANOMALY AREA

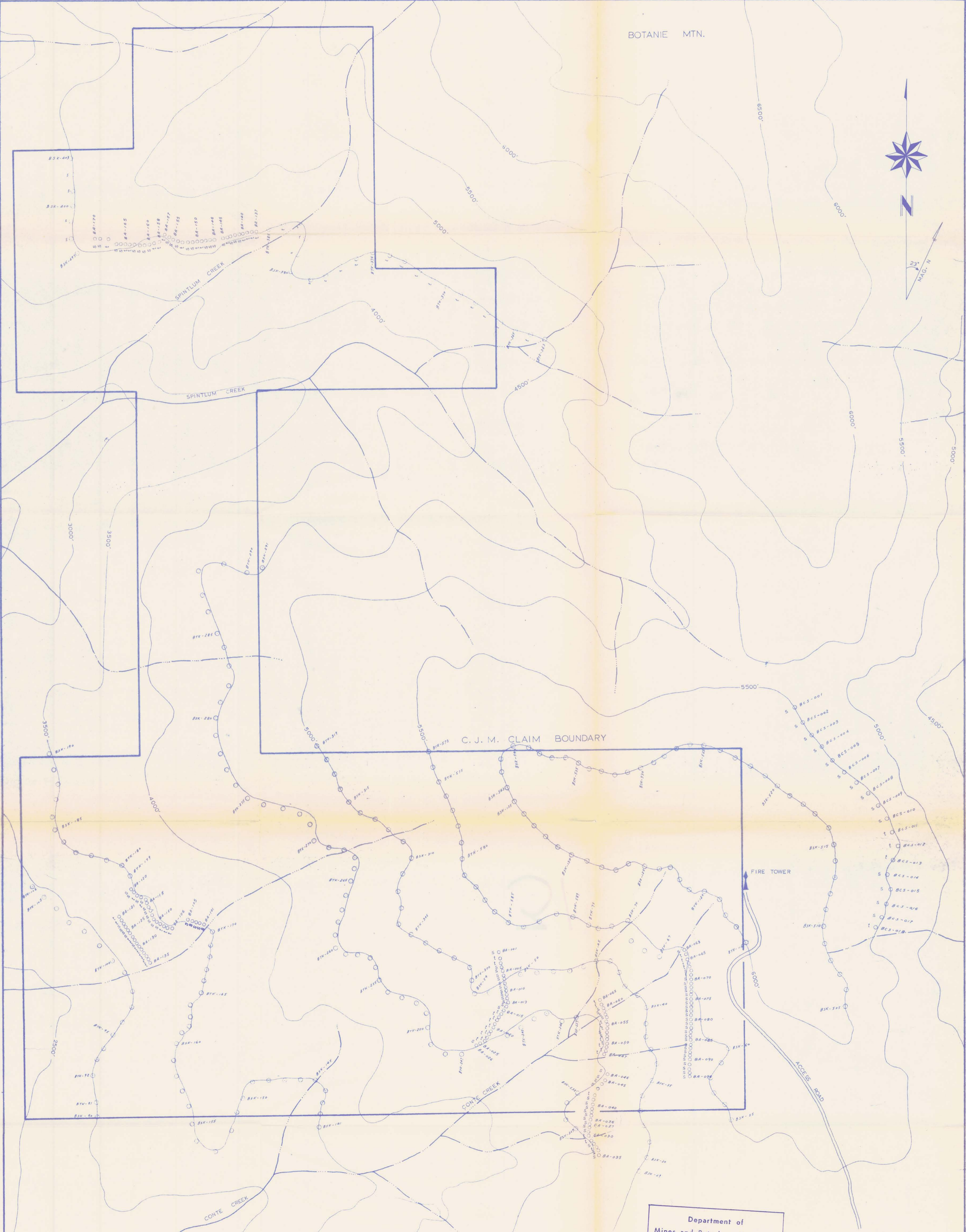


CANADIAN JOHNS-MANVILLE CO. LTD.
FAMLOOPS B. C.

BOTANIE MTN.
PROJECT No. 405
GEOCHEMICAL SURVEY
LEAD (ppm) DISTRIBUTION

DRAWN BY: C.I. CHOI SCALE: 1" = 500' DATE: APRIL 1971

BOTANIE MTN.



LEGEND

- SAMPLE LOCATION
- PREVIOUS SAMPLE LOCATION (BONDAR - CLEGG 1969)
- SOIL SAMPLE
- TALUS SAMPLE
- SAMPLE NUMBER
- ELEVATION CONTOUR
- ACCESS ROAD
- CREEK
- C. J. M. CLAIM BOUNDARY

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP A1



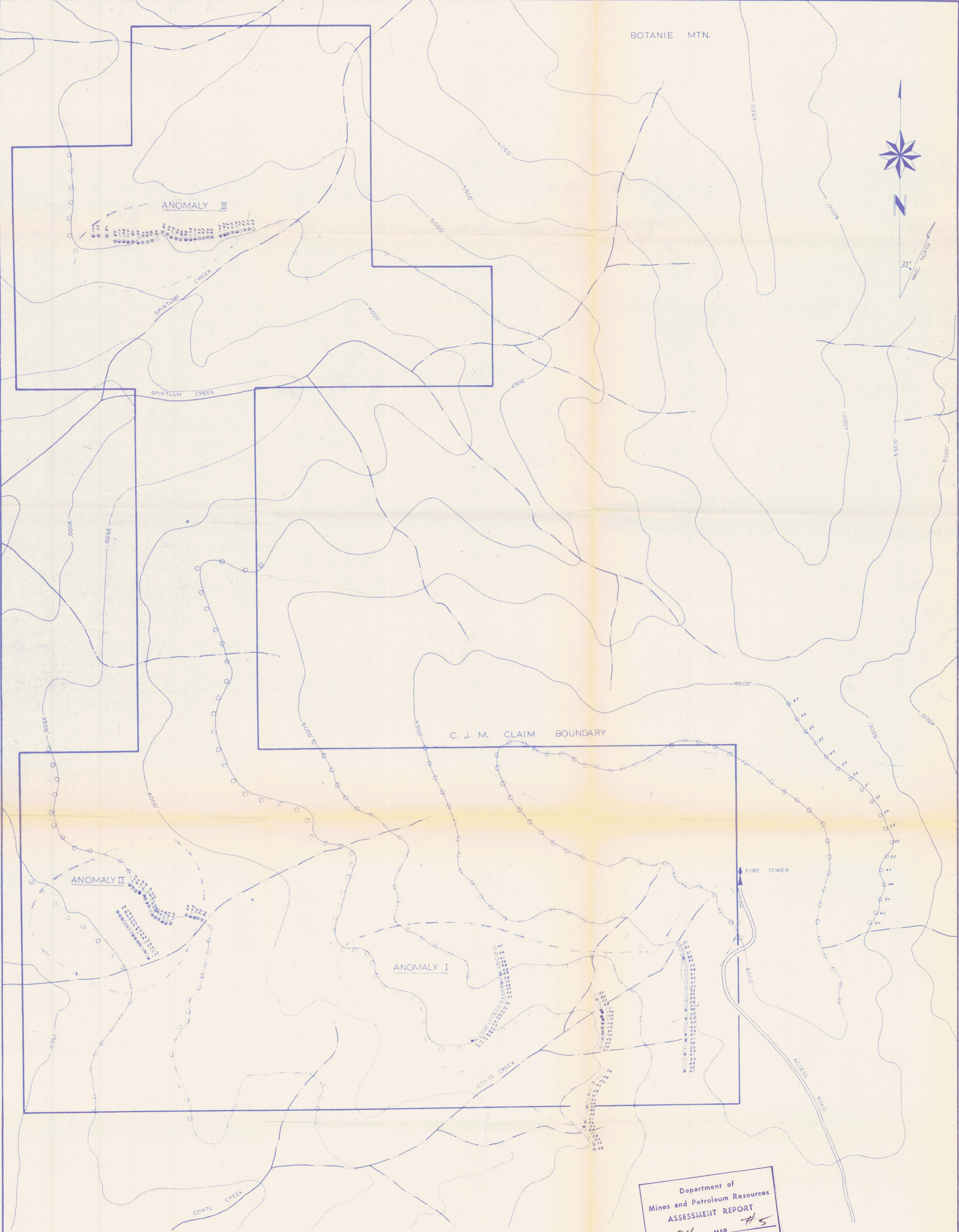
3194 M-1

CANADIAN JOHNS MANVILLE CO. LTD.
KAMLOOPS, B. C.

BOTANIE MTN.
PROJECT 405
LOCATION MAP OF SOIL & TALUS FINE SAMPLE

DRAWN BY: C. CHOI SCALE: 1" = 500' DATE: APRIL '71

BOTANIE MTN.



ANOMALOUS CATEGORIES

COLOUR SYMBOL	CATEGORY	SOIL IN		TALUS FEET DIM
○	NEGATIVE	0 - 60	< b	0 - 71
◐	POSSIBLY ANOMALOUS	61 - 97	b+1 to b+3	72 - 107
◑	PROBABLY ANOMALOUS	98 - 133	b+4 to b+23	108 - 163
●	DEFINITELY ANOMALOUS	> 133	> b+23	> 163

LEGEND

- DATA PRESENTATION
- Zn (ppm) ----- 38
 - ----- SAMPLE LOCATION
 - ----- PREVIOUS SAMPLE LOCATION
 - ANOMALY AREA

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP #5

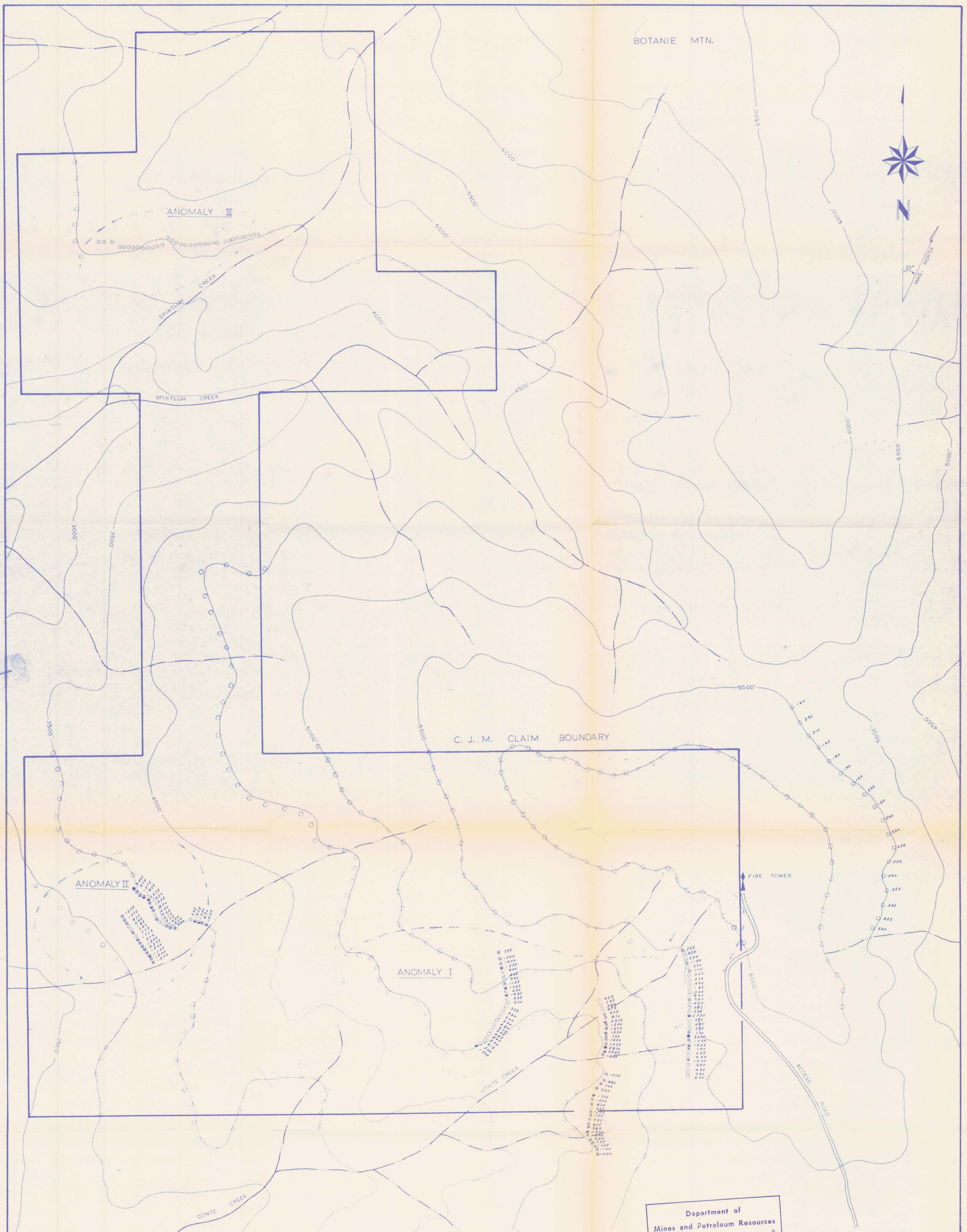


H. M. K. Conn

CANADIAN JOHNS-MANVILLE CO. LTD.
KAMLOOPS, B. C.

BOTANIE MTN.
PROJECT NO. 405
GEOCHEMICAL SURVEY
ZINC (ppm) DISTRIBUTION

DRAWN BY: C.I. CHOU, SCALE: 1" = 500', DATE: APRIL 1971



BOTANIE MTN.

ANOMALY III

SPINTLUM CREEK

SPINTLUM CREEK

C. J. M. CLAIM BOUNDARY

ANOMALY II

ANOMALY I

CONTE CREEK

CONTE CREEK

FIRE TOWER

ACCESS ROAD

ANOMALOUS CATEGORIES

COLOUR SYMBOL	CATEGORY	SOIL ppm		TALUS FINES ppm
○	NEGATIVE	0 - 685	< 6	0 - 945
◉	POSSIBLY ANOMALOUS	686 - 1260	6.1 to 6.5	906 - 1680
●	PROBABLY ANOMALOUS	1261 - 2050	6.5 to 7.5	1681 - 2700
⦿	DEFINITELY ANOMALOUS	> 2050	> 7.5	> 2700

LEGEND

- DATA PRESENTATION
- Mn (ppm) ----- 875
 - ----- SAMPLE LOCATION
 - ----- PREVIOUS SAMPLE LOCATION (BONDAR-CLEGG CO.)
 - ANOMALY AREA

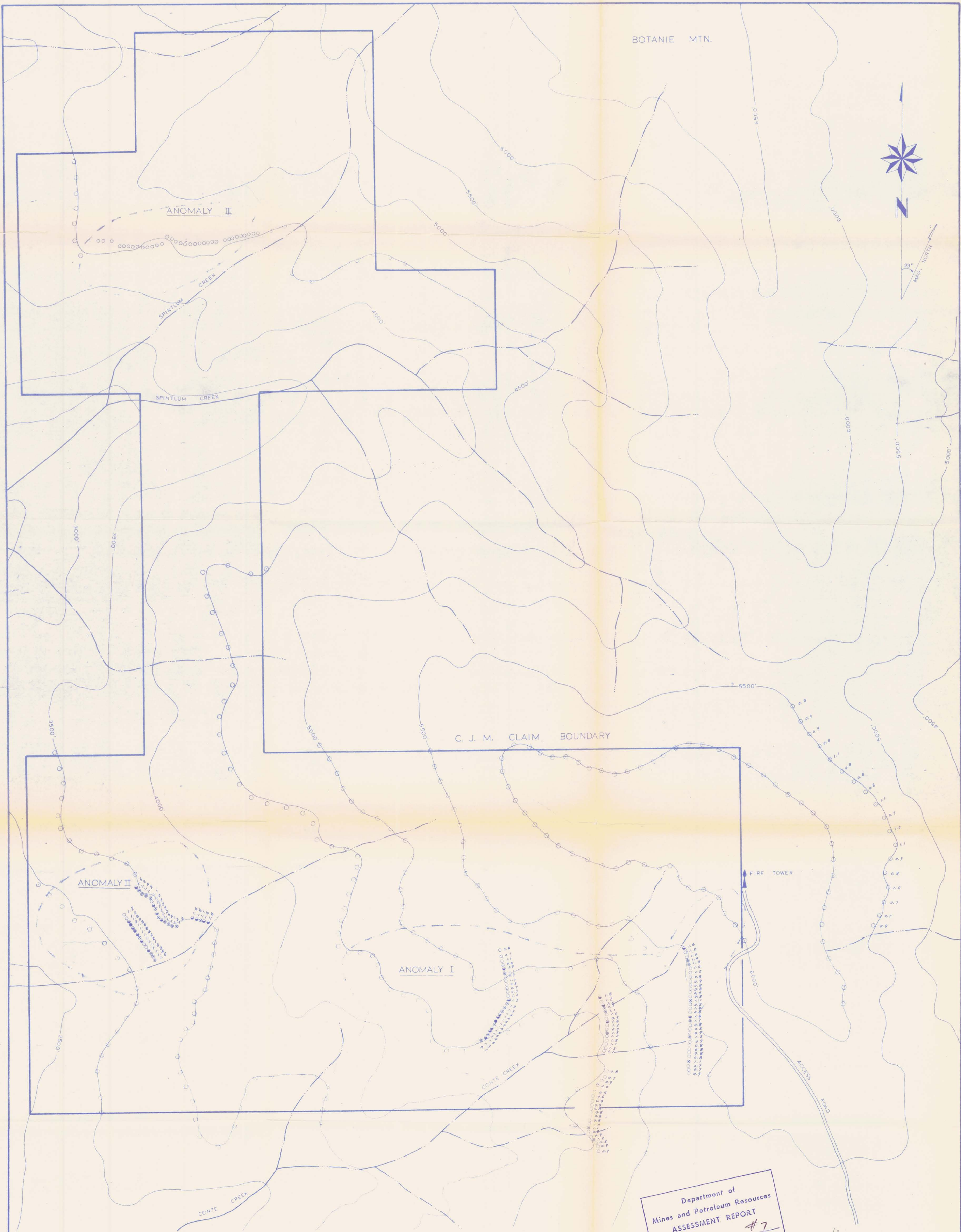
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP #6



CANADIAN JOHNS-MANVILLE CO. LTD.
KAMLOOPS, B. C.

BOTANIE MTN.
PROJECT No. 405
GEOCHEMICAL SURVEY
MANGANESE (ppm) DISTRIBUTION

DRAWN BY: C. I. CHOI SCALE: 1" = 500' DATE: APRIL 1971



BOTANIE MTN.

ANOMALY III

SPINTLUM CREEK

SPINTLUM CREEK

C. J. M. CLAIM BOUNDARY

ANOMALY II

ANOMALY I

CONTE CREEK

CONTE CREEK

FIRE TOWER

ACCESS ROAD

ANOMALOUS CATEGORIES

COLOUR SYMBOL	CATEGORY	SOIL ppm		TALUS FINES ppm
○	NEGATIVE	0 — 1.0	< 6	0 — 1.2
◐	POSSIBLY ANOMALOUS	1.1 — 1.3	6+1 to 5+5	1.3 — 1.5
◑	PROBABLY ANOMALOUS	1.4 — 1.8	6+1 to 5+5	1.6 — 1.8
●	DEFINITELY ANOMALOUS	> 1.8	> 6+25	> 1.8

LEGEND

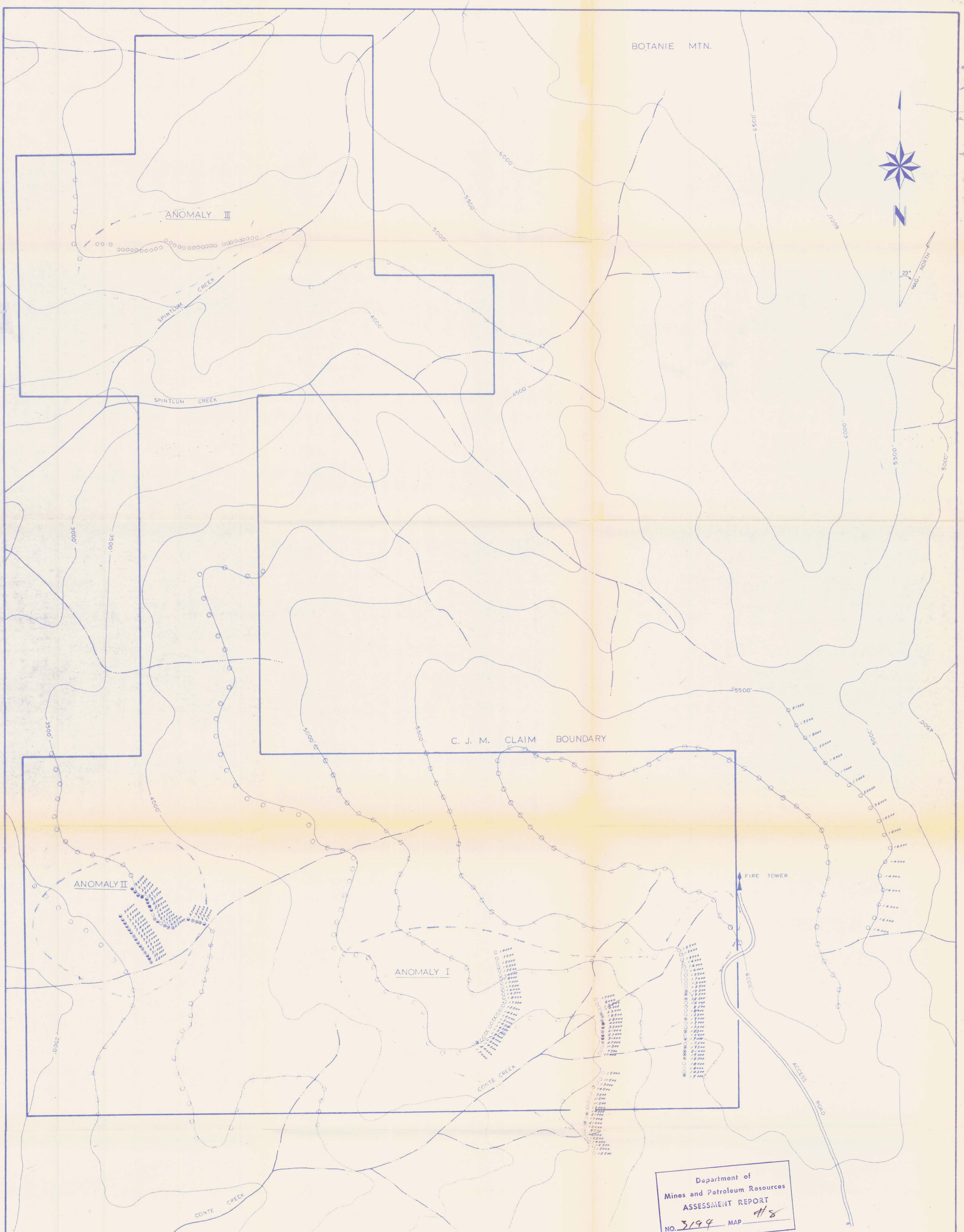
- DATA PRESENTATION
- Ag (ppm) ----- o a
 - ----- SAMPLE LOCATION
 - ----- PREVIOUS SAMPLE LOCATION
 - ANOMALY AREA

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3194 MAP #7



CANADIAN JOHNS-MANVILLE CO. LTD.
FAMLOOPS B. C.
BOTANIE MTN.
PROJECT NO. 405
GEOCHEMICAL SURVEY
SILVER (ppm) DISTRIBUTION
DRAWN BY: C. I. CHOI SCALE: 1" = 500' DATE: APRIL 1971

BOTANIE MTN.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3199 MAP #8

ANOMALOUS CATEGORIES

COLOUR SYMBOL	CATEGORY	Soil ppm		TALUS FINES ppm
○	NEGATIVE	0 — 18000	< b	0 — 18700
○	POSSIBLY ANOMALOUS	18001 — 25000	b+1 To b+5	18701 — 30000
●	PROBABLY ANOMALOUS	25001 — 39000	b+5H To b+25	30001 — 39500
●	DEFINITELY ANOMALOUS	> 39000	> b+25	> 39500

LEGEND

- DATA PRESENTATION
- Fe (ppm) ----- 17000
 - ----- SAMPLE LOCATION
 - ----- PREVIOUS SAMPLE LOCATION (BONDAR-CLEGG CO.)
 - ----- ANOMALY AREA



H. M. K. COHN

CANADIAN JOHNS-MANVILLE CO. LTD.
KAMLOOPS, B. C.
BOTANIE MTN.
PROJECT No. 405
GEOCHEMICAL SURVEY
IRON (ppm) DISTRIBUTION
DRAWN BY: C.I.OHLE SCALE: 1" = 500' DATE: APRIL 1971