

MAR 19770015: OLD FORT RIVER

Received date: Dec 31, 1977

Public release date: Jan 01, 1979

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COMPANY: DENISON MINES LIMITED
PROVINCE: ALBERTA
EXPLORATION PERMIT: MX-7/76

74/L/8

SUMMARY REPORT - OLD FORT PROJECT

A program of lake sediment and lake water sampling was carried out to explore for potential anomalous uranium on two permits south of the west end of Lake Athabaska. The results of this sampling are shown on the attached plan. The highest value obtained was 18.3 p.p.m. in the lake sediments and 0.62 p.p.b. in the lake waters.

An airborne magnetic and E-M survey was flown over the permit areas to assist in defining basement structures. Interpretation of the magnetic results indicate that the basement is 700 to 1300 feet below the surface. There are no bedrock exposures in the permit areas but regional geological maps indicate that it is entirely underlain by Athabaska formation.



A.T. Avison.

19770d5

DENISON MINES LIMITED

1976 EXPLORATION REPORT ON THE

OLD FORT PROJECT, ALBERTA

PERMIT AREA NO. 232 & 233

ECONOMIC MINERALS
FILE REPORT No.
U-AF-129(5)
U-AF-130(5)

BY

A. T. AVISON, M.Sc.
Chief Geologist

Project No. 0345
NTS Area 74 L 7,8

Toronto, Ontario
19 January 1977

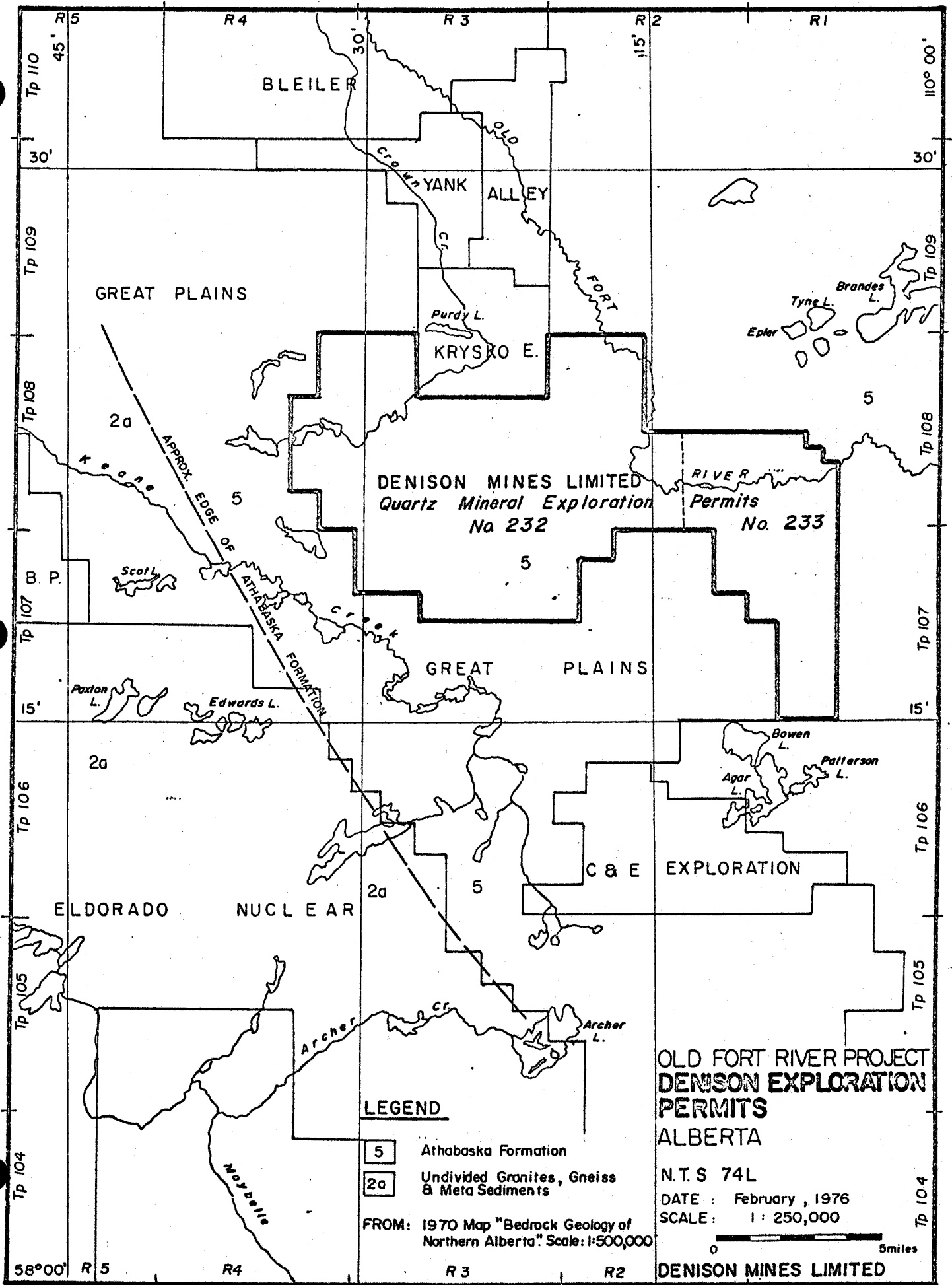
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Figure 8 - Geochemical Sample Location Plan	In pocket

S U M M A R Y

During 1976 exploration of the Old Fort Permits included lake sediment and lake water sampling and a detailed airborne magnetic EM survey. The geochemical sampling has shown some anomalous uranium values. The geophysics gives an indication of the depth to the base of the Athabasca formation which is assumed to be the favourable location for uranium concentrations.

Future work should be directed at the exploration of the Athabasca-Archean interface.



LEGEND

- 5 Athabaska Formation
- 2a Undivided Granites, Gneiss & Meta Sediments

FROM: 1970 Map "Bedrock Geology of Northern Alberta" Scale: 1:500,000

**OLD FORT RIVER PROJECT
DENISON EXPLORATION
PERMITS
ALBERTA**

N.T.S 74L

DATE: February, 1976

SCALE: 1:250,000



DENISON MINES LIMITED

PROPERTY DESCRIPTION

The project covers two Quartz Mineral Exploration Permits No. 232 and 233 issued to Denison Mines Limited on January 28, 1976. They are located in Townships 107 and 108 of Ranges 1 to 4 and are centered at longitude $110^{\circ} 20' W$; latitude $58^{\circ} 22' N$.

Access is by float or ski equipped aircraft from Buffalo Narrows, Saskatchewan or Fort McMurray, Alberta. The winter road to Cluff Lake, Saskatchewan passes 20 miles east of the project area and could provide access for any extensive program of exploration.

TOPOGRAPHY AND VEGETATION

The permit is covered by thin jackpine forest of little commercial value. Topographic relief is about 400 feet from the lowest point in the valley of the Old Fort River to the highest outwash ridges. Drainage is erratic but generally northward through Crown Creek in the central part of the area and the Old Fort River in the east.

The Old Fort River valley is up to a mile in width. It is incised about 100 feet into the pleistocene overburden cover. The river follows the contact between morainal material on the west and deposits of outwash or wind blown sand on the east. Numerous kettle lakes are present in the moraine areas while the outwash occurs as well drained ridges and sandy plain.

GEOLOGY

The thick overburden in the area south and west of Lake Athabasca obscures the bedrock geology. There are no bedrock exposures within the permit areas.

The overburden is derived entirely from the Athabasca formation. Material from the Archean basement is conspicuous by its absence.

The western edge of the Athabasca is located about 4 miles west of the permit area. These sediments dip about 2° NE and lie on the Archean erosional surface. The nearest exposures of Athabasca sediments are 17 miles to the northeast while the Archean gneiss of the basement is exposed 12 miles to the northwest and southwest of the permit. The position of the edge of the Athabasca and its dip is interpreted from the boulders in the overburden and from the aeromagnetic surveys.

GEOCHEMISTRY

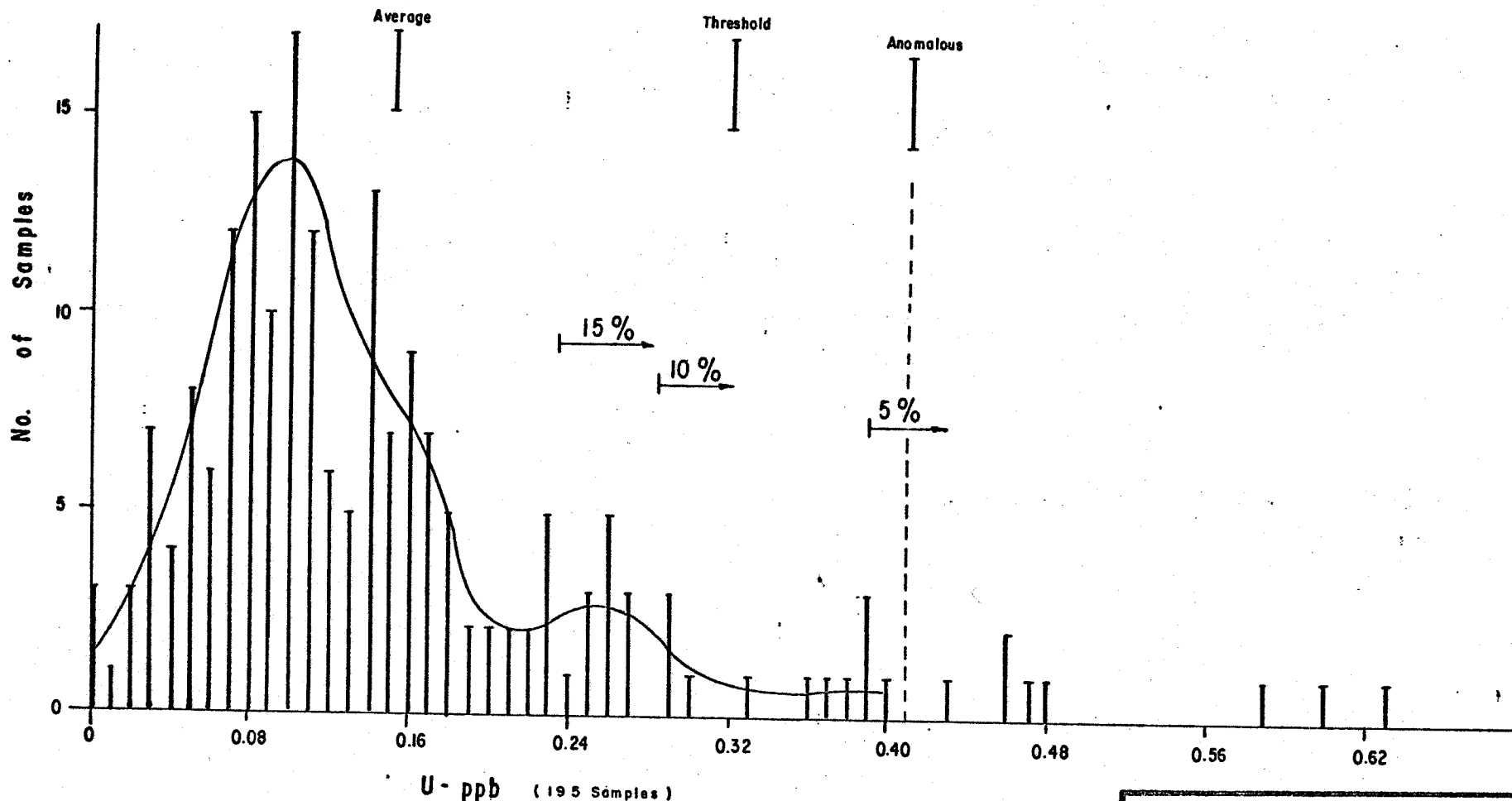
Sampling of the lake bottom sediments and lake waters was carried out between September 1 and September 15 by H. H. Pallocks whose field report is attached (Appendix I). The sample analyses are summarized in Table 1 and shown graphically in Figure 2-7. Anomalous samples are shown on the sample location plan (Figure 8).

Sample coverage is not uniform throughout the property because of the distribution of the lakes which are confined almost entirely

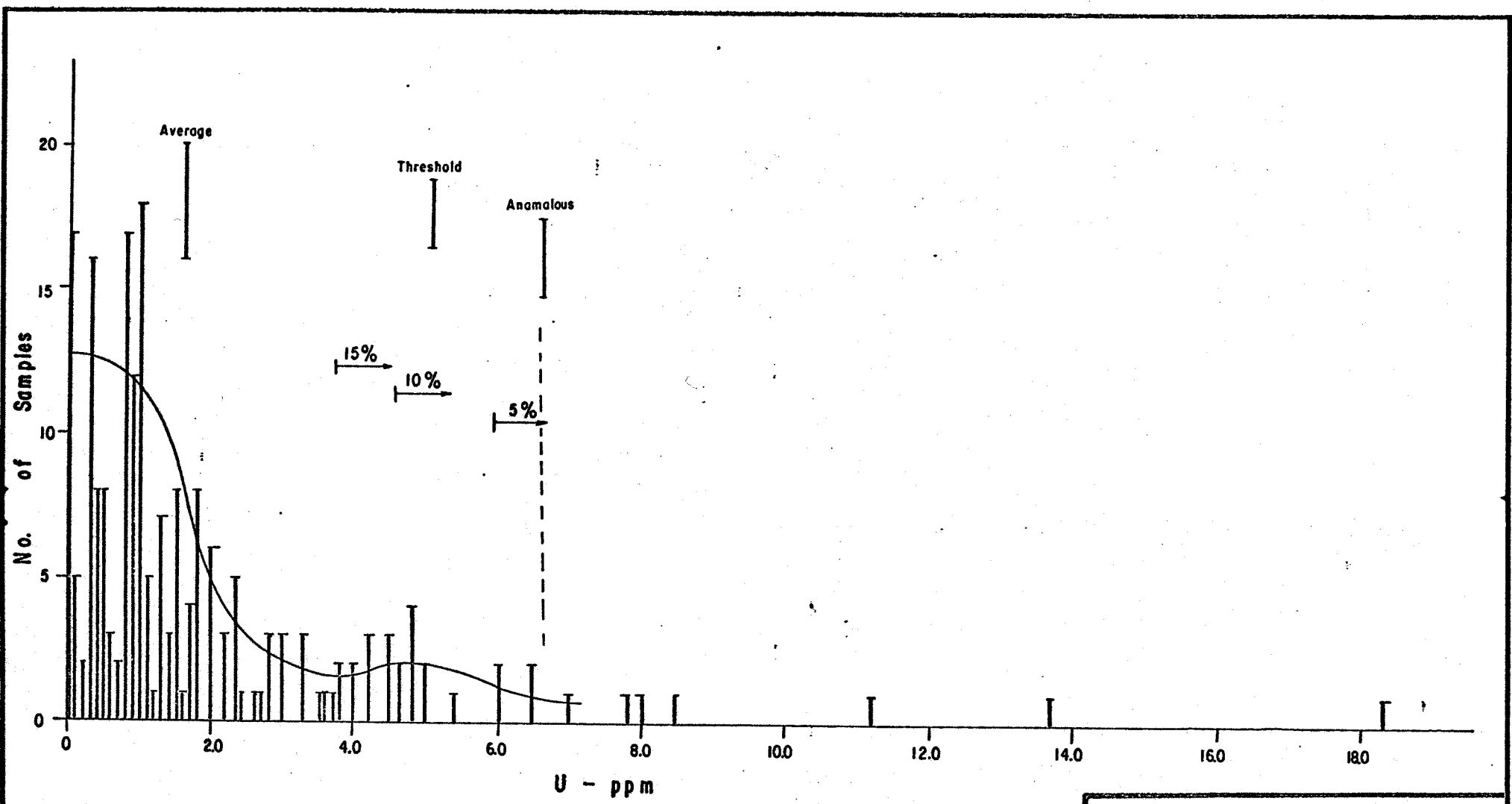
TABLE I

SUMMARY OF SAMPLE RESULTS

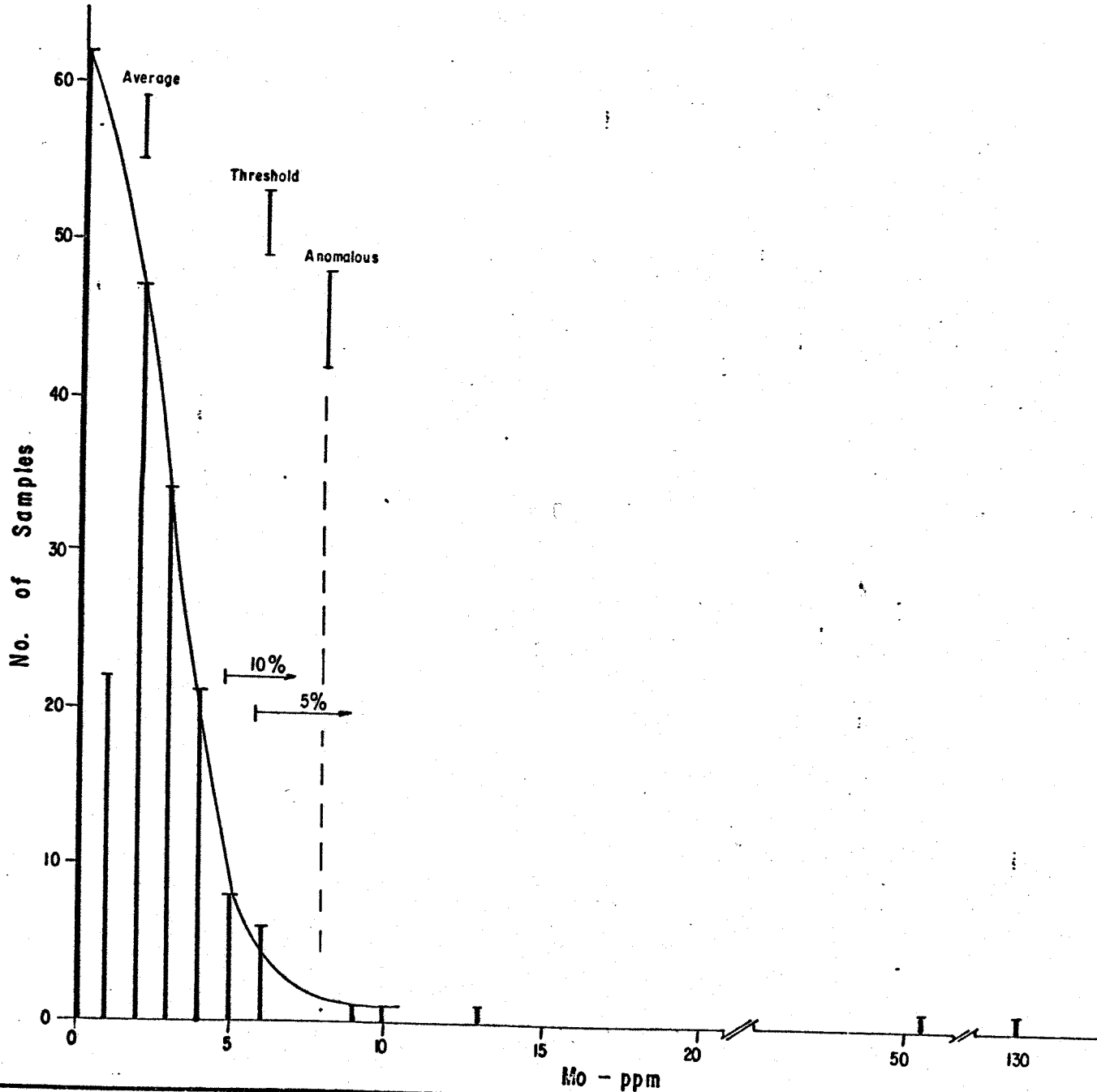
	Lake Water	Lake Sediments				
	U-ppb Fission Track	ppm by A.A.; Fluormetric				
		U	Mo	Cu	Zn	Pb
No. of Samples	194	205	205	205	205	205
Range of Values	N.D.-0.65	N.D.-18.3	N.D.-132	2-40	2-195	5-54
Average Analyses	0.15	1.54	2.0	11.0	70.2	20.2
Standard Deviation	0.085	1.70	1.99	4.18	26.8	11.5
Threshold Analysis	0.32	4.94	5.98	19.36	123.8	43.2
Anomalous Analysis	0.405	6.48	7.97	23.54	150.6	54.7
No. of Anomalous Samples	8	9	5	3	3	0



DENISON MINES LIMITED	
Project : OLD FORT RIVER LAKE WATERS ALBERTA	
Drawn by : M.K. Geol : A.T. A	N.T.S.
Date : Sept. - Nov. 1976	74L/7,8
Scale : 1" = 5' , 1" = 0.08	



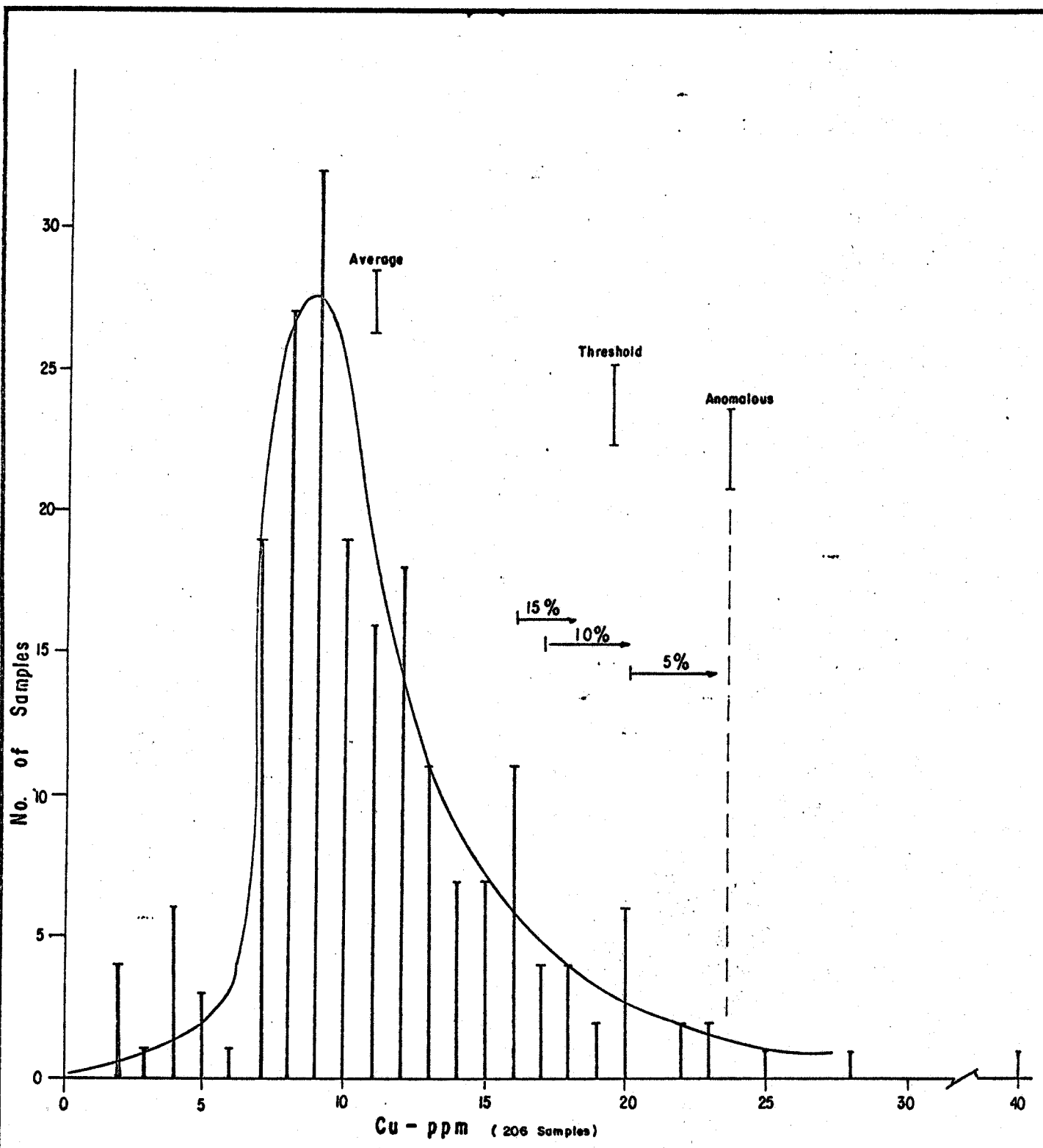
<i>DENISON MINES LIMITED</i>	
Project : OLD FORT RIVER LAKE SEDIMENTS ALBERTA	
Drawn by : M.K. Geol : A.T.A.	N.T.S.
Date : Sept.-Nov. 1976	74L/7,8
Scale : 1" = 5, 1" = 2.0	



DENISON MINES LIMITED

Project :
**OLD FORT RIVER
 LAKE SEDIMENTS
 ALBERTA**

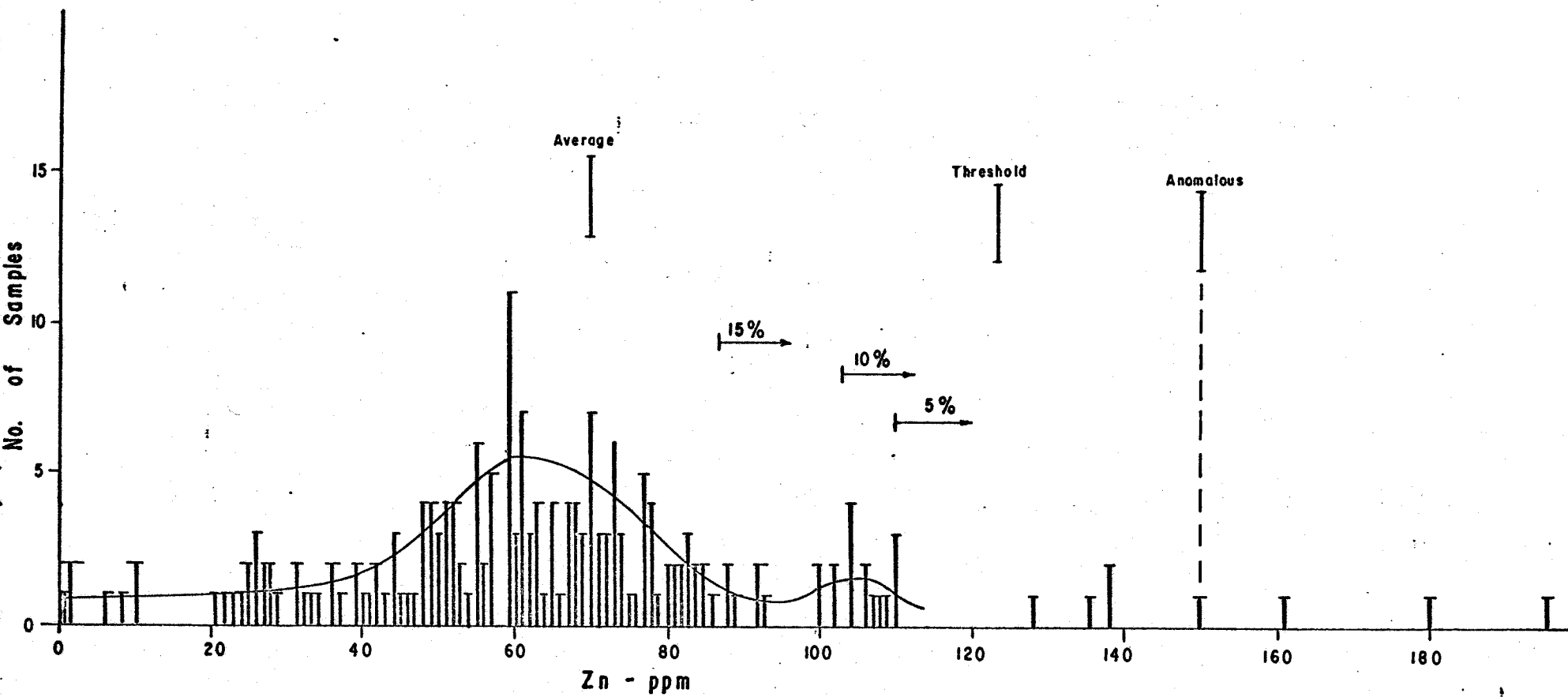
Drawn by : M. K. Geol. : A.T.A.	N.T.S.
Date : Sept. - Nov. 1976	74L/7,8
Scale : 1" = 10' 1" = 5'	



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LAKE SEDIMENTS
ALBERTA**

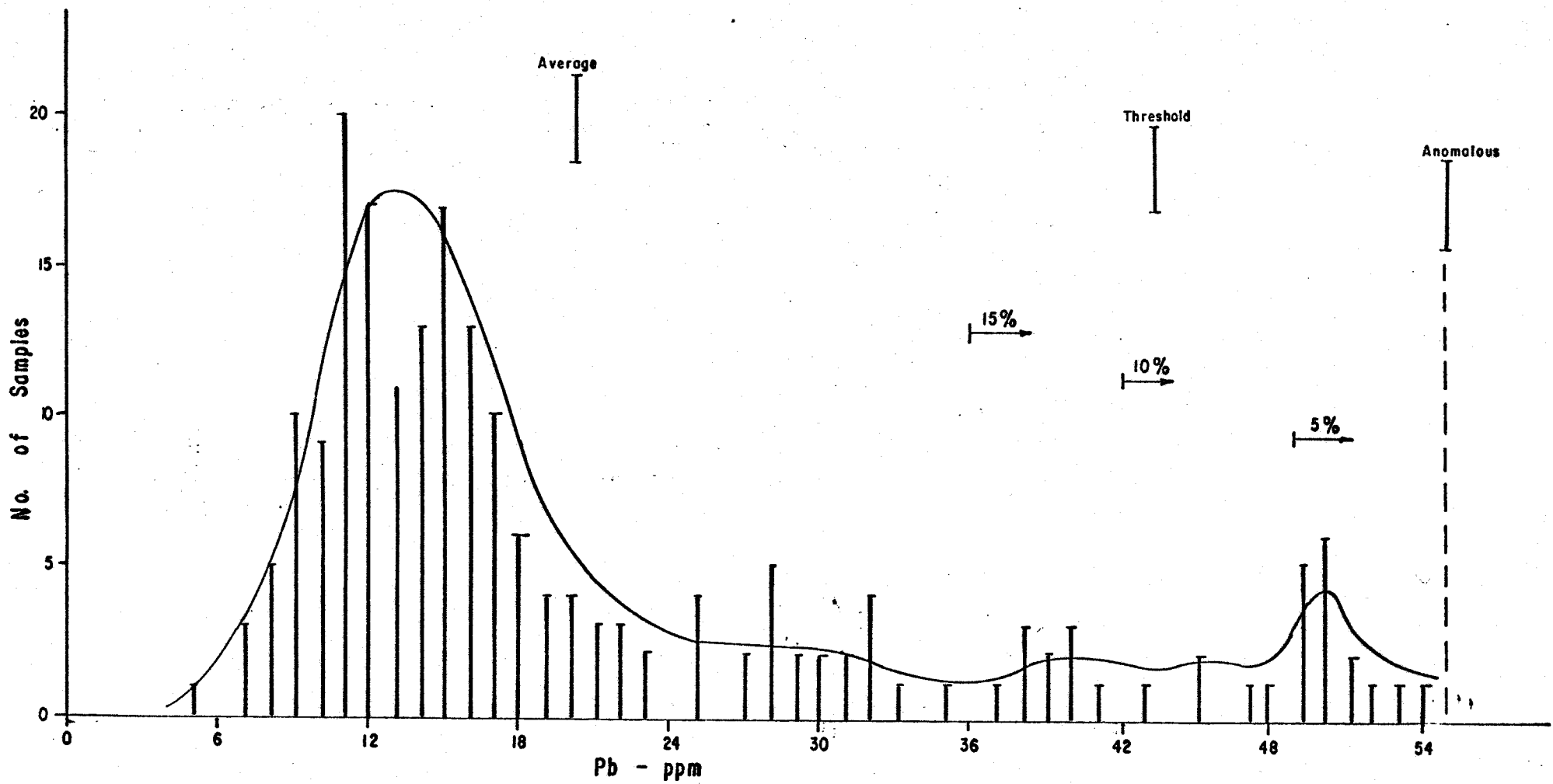
Drawn by : M.K. Geol. A.T.A.	N.T.S.
Date : Sept. - Nov. 1976	74L/7,8
Scale : 1" = 5'	



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**OLD FORT RIVER
 LAKE SEDIMENTS
 ALBERTA**

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Scale : 1" = 5 , 1" = 20		



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Project :
**OLD FORD RIVER
 LAKE SEDIMENTS
 ALBERTA**

Drawn by : M.K.	Geol: A.T.A.	N.T.S.
Date : Sept. - Nov. 1976		
Scale : 1" = 5'	1" = 6'	

74L/7,8

to the areas of ice contact pleistocene deposits. The parts of the project area which are underlain by aeolian sands and out-wash deposits are well drained and contain very few lakes. None of the samples from these areas are anomalous in uranium.

The geochemical analyses indicate some areas of anomalous uranium content. There is a suggestion of a northwesterly trend to the anomalous samples. This would conform with the probable strike of the Athabasca sediments. The source of the uranium in the anomalous samples has not been determined. It could be derived from a uraniferous bed in the Athabasca sediments that sub-outcrops on the property or it may originate from deeper occurrences which have "leaked" uranium through fractures to the bedrock surface.

The presence of anomalous uranium in the lake sediments and lake water is encouraging and an attempt to determine its source is definitely warranted.

AIRBORNE SURVEY

An airborne magnetic and EM survey was carried out by Geotrex Limited during November. The survey was flown at one sixth mile line intervals and totals 842 line miles.

Only preliminary magnetic results have been received to date. These show that the magnetic field increases quite uniformly towards the northeast across the permit areas. This gradient is due to a strong magnetic feature located north of the area which is shown on map 7159 G issued by the Department of Mines and Technical Surveys. This magnetic feature is presumably within the Archean basement rocks underlying the Athabasca sediments. It is at least 4,000 feet below the surface.

Several low relief magnetic anomalies appear on the detailed magnetic map. These strike 160° - 180° and indicate a depth of 900' - 1,500' below the surface. They may represent topographic highs in the Archean basement rocks or more basic components of the gneiss.

FUTURE PROGRAM

Results to date have not suggested any structures that might contain uranium concentrations. The geochemical sampling indicates that there is anomalous uranium on the permit. Future work will investigate the possible sources of the uranium found in the sampling.

Drilling is the only method that will effectively explore the potential of the area. Selection of drill sites should be guided by a detailed analyses of the airborne Mag. - EM survey. A

ground geophysical (seismic or multiple frequency EM) survey is suggested to indicate the depth to the base of the Athabasca formation before drilling starts. A program of 5,000 feet of drilling will give an indication of the potential of the permits.

Exploration of the area should be carried out during the winter to reduce environmental damage and for easier access.

PROJECT COSTS

1976 Project Costs

Ground acquisition	\$ 7,835
Ground examination, geochemistry, camp costs	25,537
Airborne Geophysics	<u>32,952</u>
	<u>\$ 66,324</u>


Estimated Costs of the 1977 Exploration Program

Ground geophysics	\$ 20,000
Drilling 5,000' @ \$24.00 per foot	<u>120,000</u>
	<u>\$140,000</u>

APPENDIX I

REPORT OF THE WORK DONE ON THE
OLD FORT RIVER PROPOSITION

1. A detailed lake sediment and lake water sampling program for geochemical analysis purposes was carried out for three weeks by two geologists and one field assistant. The sampling was conducted either by canoe or by helicopter (17 hours).
Surface water samples were taken in 100 ml plastic bottles. Sediment samples were taken with a sampler which had the advantage of penetrating not more than 10 cm into the ground - thus guaranteeing uniform sampling and avoiding an excess amount of leached sand or silt. The samples were dried and kept in special paper sample bags.
194 water samples and 205 sediment samples were taken. The assaying will be done by Bondar & Clegg Ltd., Ottawa. A map showing all sample positions, and a list of samples have been compiled.
2. The area is covered with a Pleistocene overburden and lacks outcrops of bedrock or basement rock. Some surveying along traverses, using portable scintillometers (Scintrex BGS-1S total count, McPhar TV-1 spectrometer) was done and is also shown in the above mentioned map. However, no radioactive boulders could be found and traced.
3. Regardless of the assay results to come, the area is of utmost interest with regard to prospecting for uranium ore: The Old Fort River Proposition is situated only 30 miles West of the Cluff Lake Proposition and, judging from the small scale colour photograph of the Athabasca Lake area, seems to be situated along the same strike of the bedrock underlying the Pleistocene cover.
As the most effective follow up, a drill hole is recommended. It should be possible to sink a bore hole which will reach the basement at about 500 feet depth, according to the results of seismic work done in the area by the government.


TORONTO
September 23, 1976

H. H. PALLOKS
Geologist

LIST OF SAMPLES

(DENISON MINES LTD., 4 KING ST. WEST, TORONTO)

SAMPLE NO.	WATER	SEDIMENT	REMARKS
1	X	X	<p>X = Sample Taken - = No Sample Taken</p> <p>FW = Water Sample FS = Lake Sediment Sample</p> <p>Identical Sample Points For Water And Sediment - Therefore Identical Sample Nos.</p>
2	X	X	
3	X	X	
4	X	X	
5	X	X	
6	X	X	
7	X	X	
8	X	X	
9	X	X	
10	-	X	
11	X	X	
12	-	X	
13	X	X	
14	X	X	
15	-	X	
16	X	X	
17	-	X	
18	-	X	
19	X	X	
20	-	X	
21	-	X	
22	-	X	
23	-	X	
24	X	X	
25	-	X	
26	-	X	

SAMPLE NO.	WATER	SEDIMENT	REMARKS
27	-	x	
28	x	x	
29	x	x	
30	x	x	
31	x	x	
32	x	x	
33	x	x	
34	x	x	
35	x	x	
36	x	x	
37	x	x	
38	x	x	
39	x	x	
40	x	x	
41	x	x	
42	x	x	
43	x	x	
44	x	x	
45	x	x	
46	x	x	
47	x	x	
48	x	x	
49	x	x	
50	x	x	
51	x	x	
52	x	x	
53	x	x	
54	x	x	
55	x	x	
56	x	x	
57	x	x	
58	x	x	
59	x	x	
60	x	x	
61	x	x	

SAMPLE NO.	WATER	SEDIMENT	REMARKS
62	-	-	Skipped
63	x	x	
64	x	x	
65	x	x	
66	x	x	
67	x	x	
68	x	x	
69	x	x	
70	x	x	
71	x	x	
72	x	x	
73	x	x	
74	x	x	
75	x	x	
76	x	x	
77	x	x	
78	x	x	
79	x	x	
80	x	x	
81	x	x	
82	x	x	
83	-	-	Skipped
84	x	x	
85	x	x	
86	x	x	
87	x	x	
88	x	x	
89	x	x	
90	x	x	
91	x	x	
92	x	x	
93	x	x	
94	x	x	

SAMPLE NO.	WATER	SEDIMENT	REMARKS
95	X	X	
96	X	X	
97	X	X	
98	X	X	
99	X	X	
100	X	X	
101	X	X	
102	X	X	
103	X	X	
104	X	X	
105	X	X	
106	X	X	
107	X	X	
108	X	X	
109	X	X	
110	X	X	
111	X	X	
112	X	X	
113	X	X	
114	X	X	
115	X	X	
116	X	X	
117	X	X	
118	X	X	
119	X	X	
120	X	X	
121	X	X	
122	X	X	
123	X	X	
124	-	-	Skipped
125	X	X	
126	X	X	
127	X	X	
128	-	-	Skipped

SAMPLE NO.	WATER	SEDIMENT	REMARKS
129	X	X	
130	X	X	
131	X	X	
132	X	X	
133	X	X	
134	X	X	
135	-	-	Skipped
136	X	X	
137	X	X	
138	X	X	
139	X	X	
140	X	X	
141	X	X	
142	X	X	
143	X	X	
144	X	X	
145	X	X	
146	X	X	
147	X	X	
148	X	X	
149	X	X	
150	X	X	
151	X	X	
152	X	X	
153	X	X	
154	X	X	
155	X	X	
156	X	X	
157	X	X	
158	X	X	
159	X	X	
160	X	X	
161	X	X	
162	X	X	

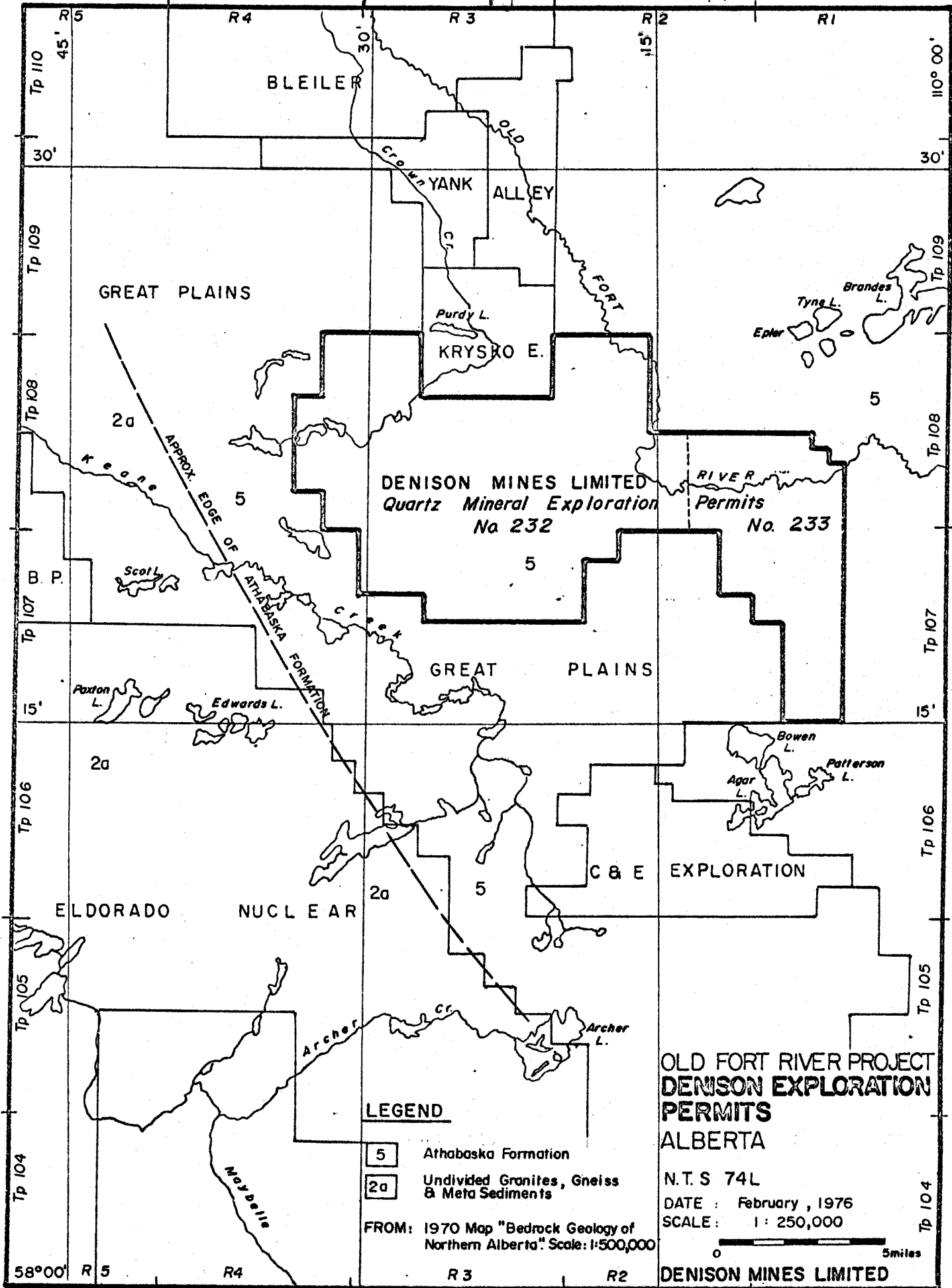
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163	x	x	
164	x	x	
165	x	x	
166	x	x	
167	x	x	
168	x	x	
169	x	x	
170	x	x	
171	x	x	
172	x	x	
173	x	x	
174	x	x	
175	x	x	
176	x	x	
177	x	x	
178	x	x	
179	x	x	
180	x	x	
181	x	x	
182	x	x	
183	x	x	
184	x	x	
185	x	-	Too many weeds.
186	x	x	
187	x	x	
188	x	x	
189	x	x	
190	x	x	
191	x	x	
192	x	x	
193	x	x	
194	x	x	
195	x	x	
196	x	x	

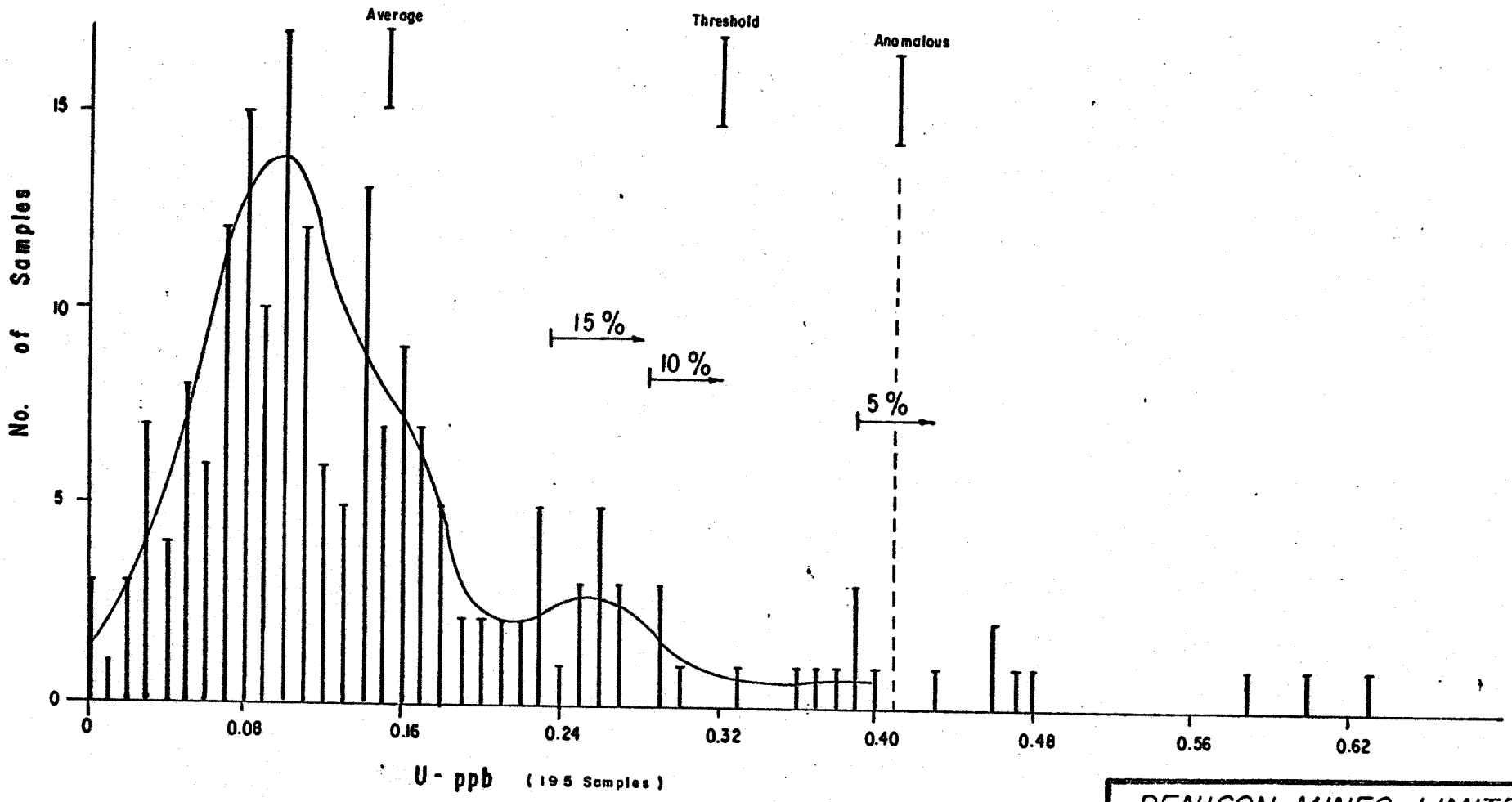
SAMPLE NO.	WATER	SEDIMENT	REMARKS
197	X	X	
198	X	X	
199	X	X	
200	X	X	
201	X	X	
202	X	X	
203	X	X	
204	X	X	
205	X	X	
206	X	X	
207	X	X	
208	X	X	
209	X	X	
210	X	X	
211	X	X	

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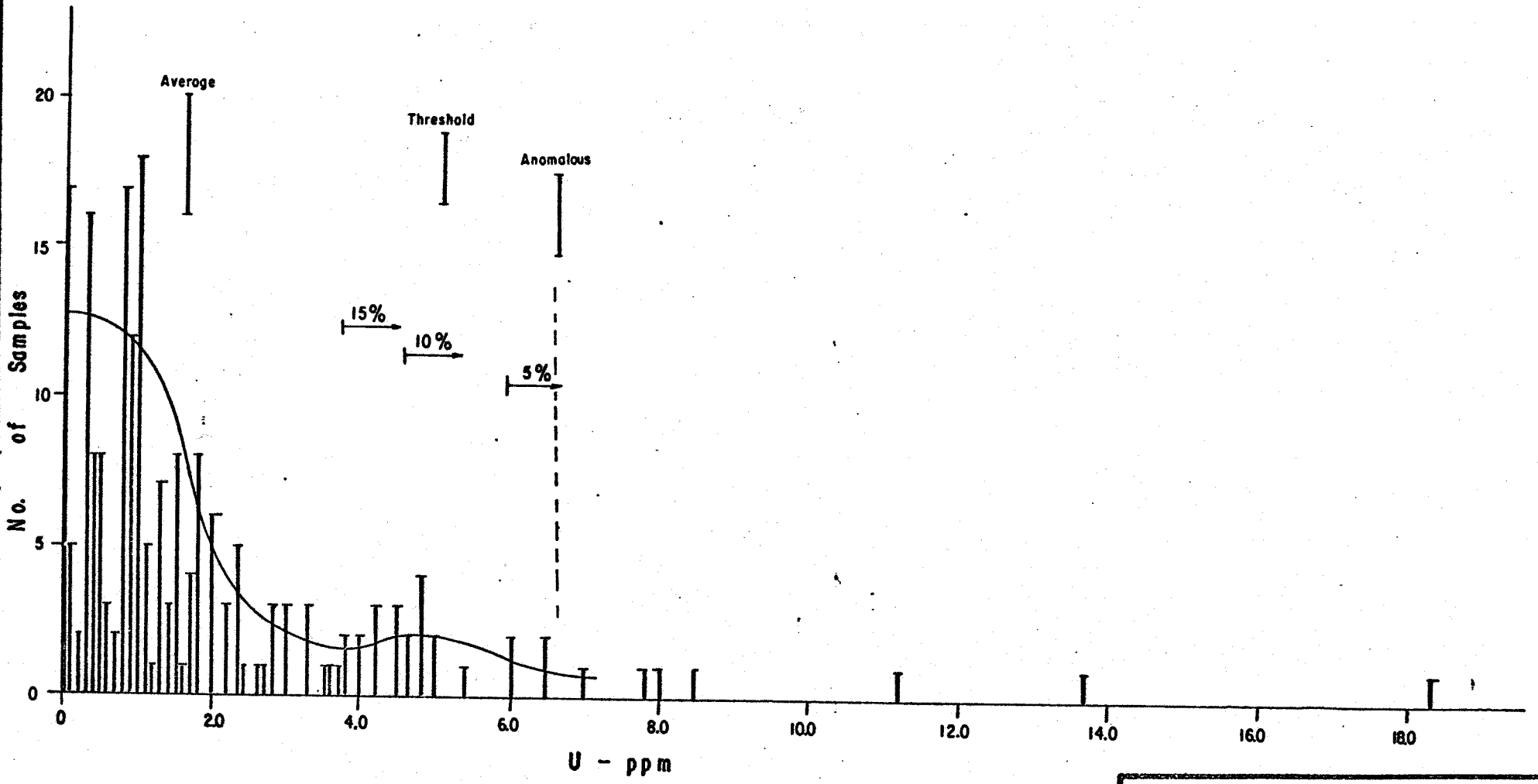
FIGURE 1





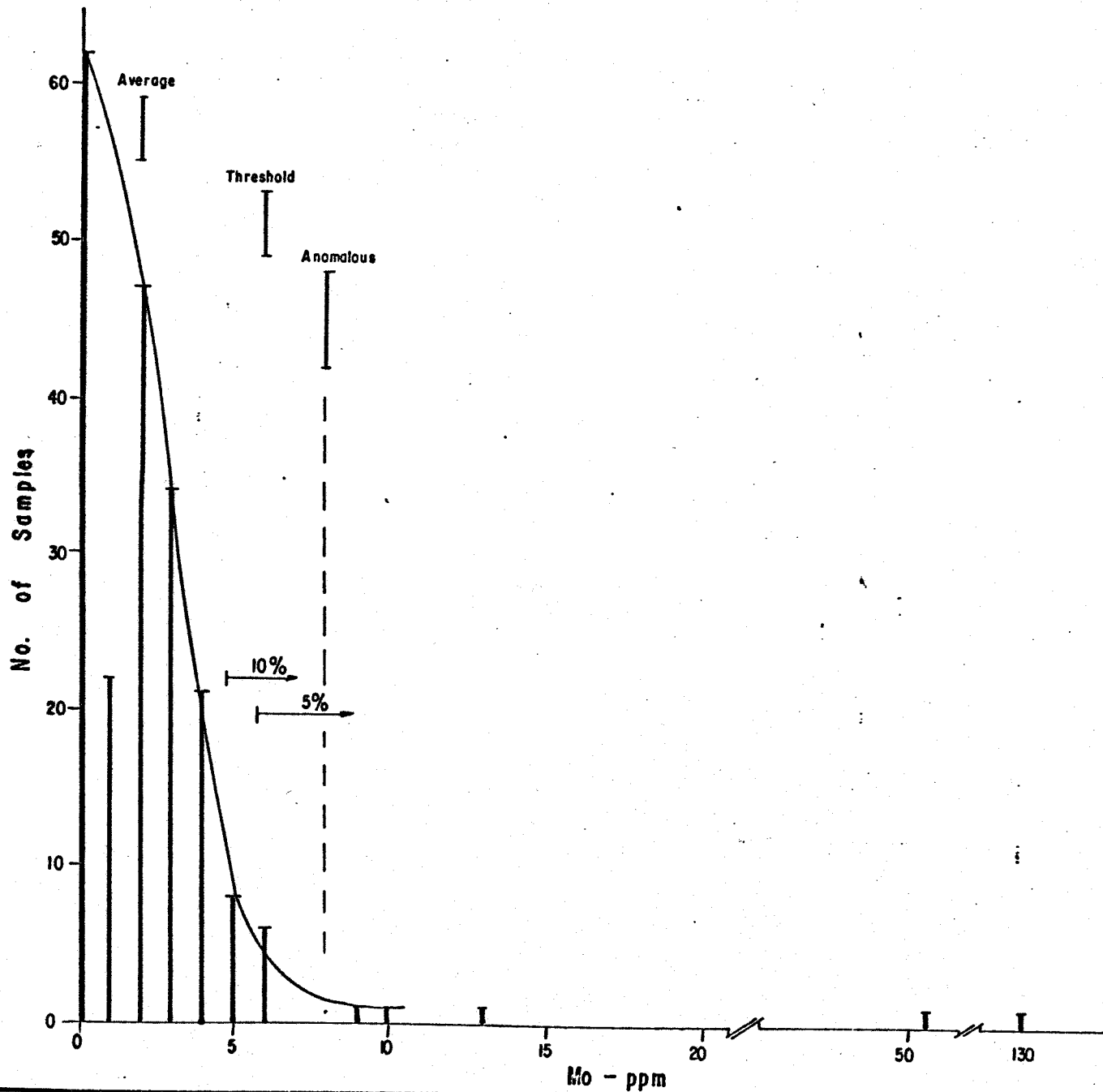
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 Graph # 1

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Date : Sept. - Nov. 1976	N.T.S.
Scale : 1" = 5'	1" = 0.08'
74L/7,8	



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 Graph #2

DENISON MINES LIMITED	
Project :	
OLD FORT RIVER LAKE SEDIMENTS ALBERTA	
Drawn by - M.K.	Geol: A.T.A.
Date	: Sept. - Nov. 1976
Scale	: 1" = 5, 1" = 2.0
N.T.S. 74L/7,8	



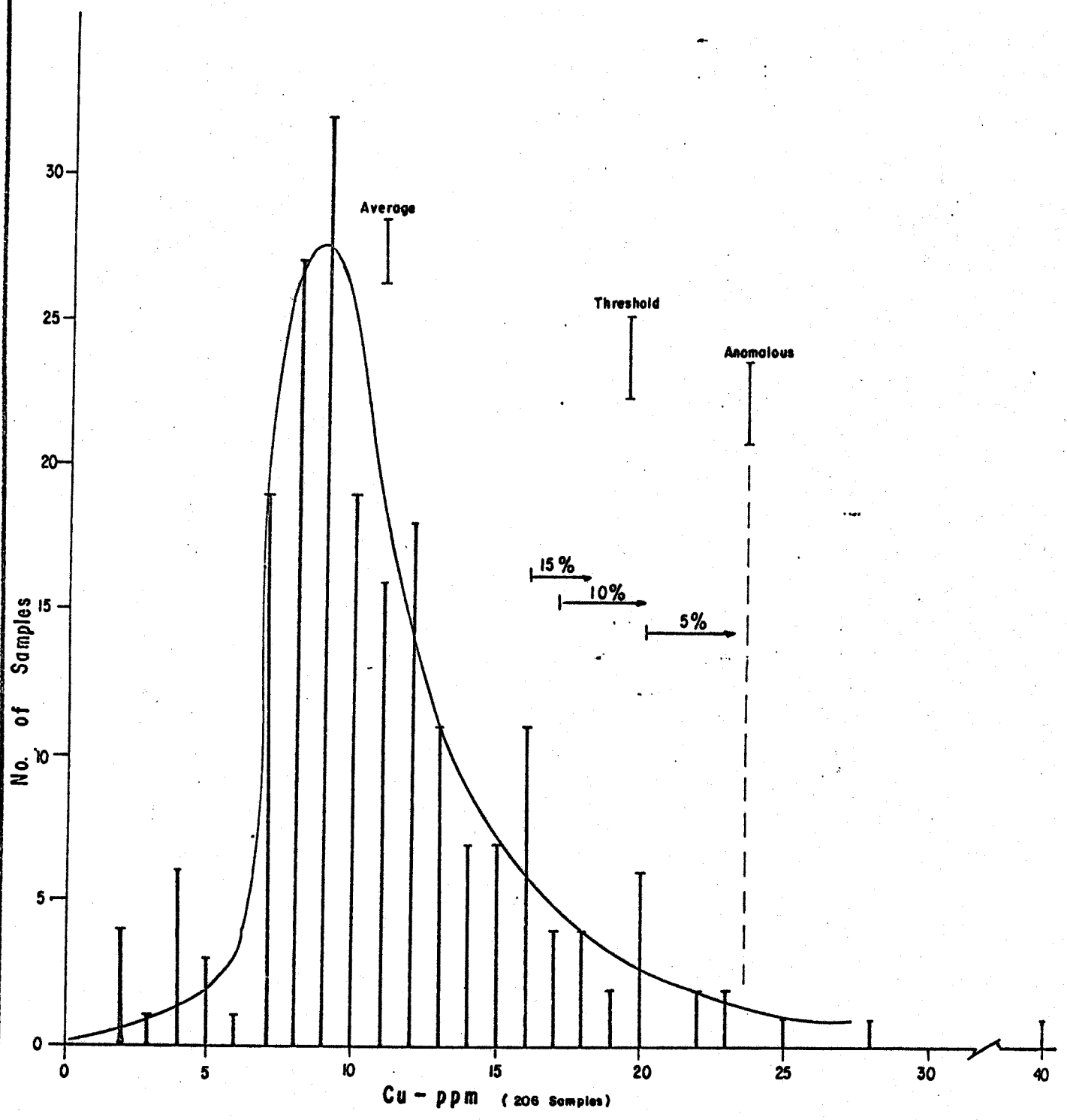
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DENISON MINES LIMITED	
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Drawn by : M. K. Geol : A.T.A.	N.T.S.
Date : Sept. - Nov. 1976	74L/7,8
Scale : 1" = 10' 1" = 5'	

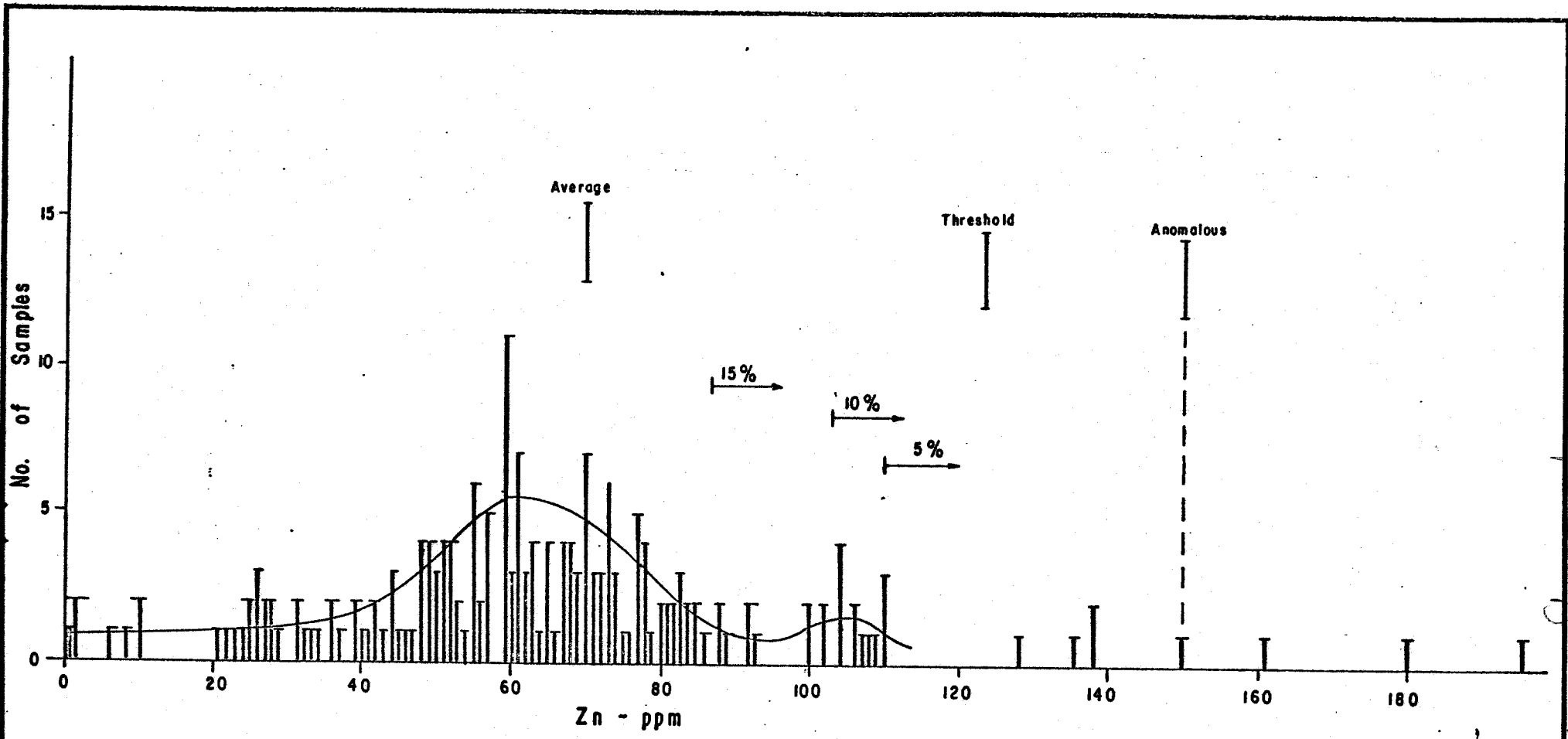
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Graph #4



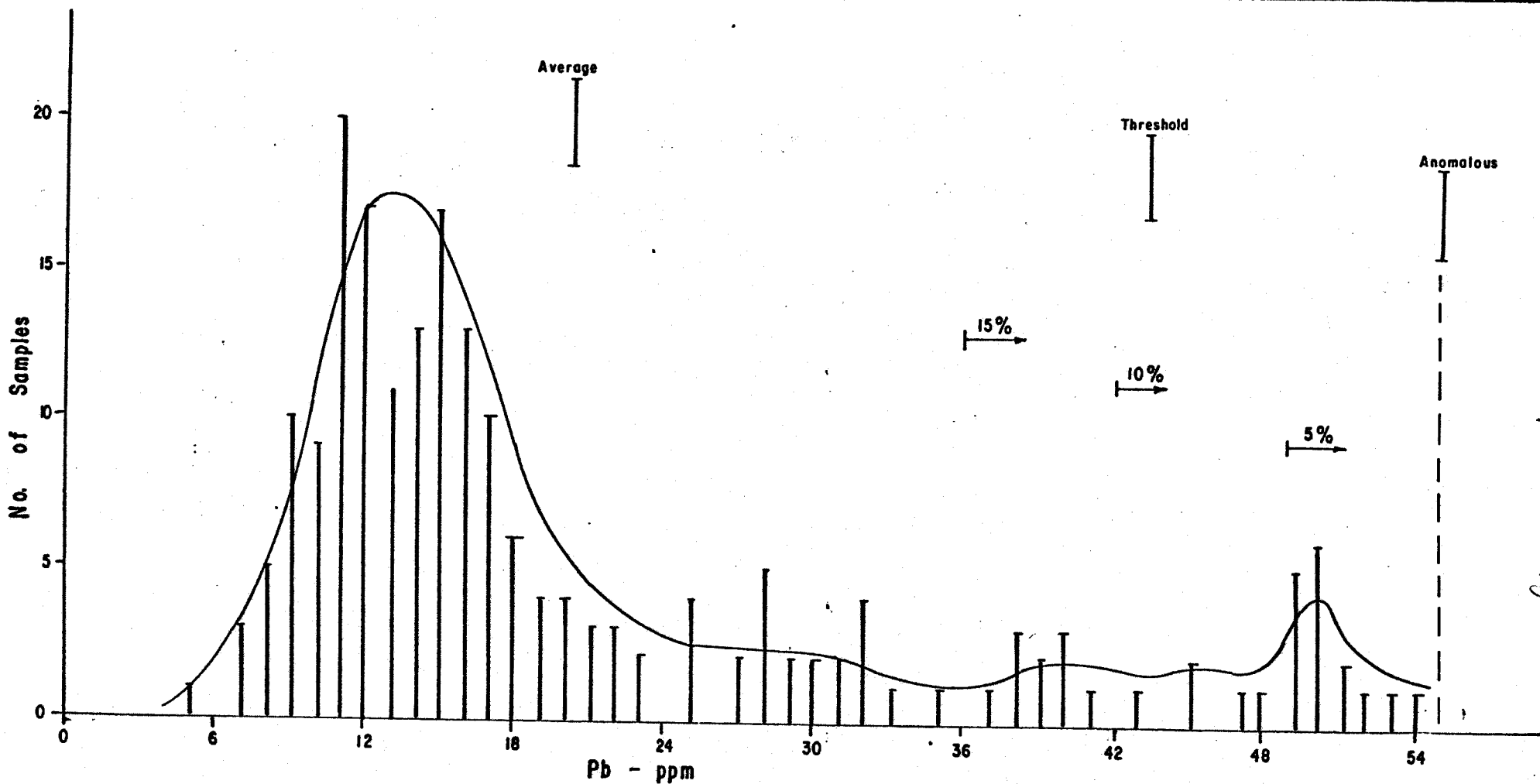
DENISON MINES LIMITED	
Project :	
OLD FORT RIVER LAKE SEDIMENTS ALBERTA	
Drawn by : M.K. Geol: A.T.A.	N.T.S.
Date : Sept. - Nov. 1976	74L/7,8
Scale : 1" = 5'	



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Graph # 5

DENISON MINES LIMITED	
Project : OLD FORT RIVER LAKE SEDIMENTS ALBERTA	
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Date : Sept. - Nov. 1976	74L/7,8
Scale : 1" = 5 , 1" = 20	



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Graph # 6

DENISON MINES LIMITED	
Project :	
OLD FORD RIVER LAKE SEDIMENTS ALBERTA	
Drawn by : M.K.	Geol: A.T.A.
Date : Sept. - Nov. 1976	N.T.S.
Scale : 1" = 5' , 1" = 6'	74L/7,8



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Fraction Cu, Pb, Zn, Mo-HNO₃-HCl; U-HNO₃ Report No. 1702-6
 Method A.A.; Fluorimetric From Denison Mines Limited
 Fraction Used -80 soils Date October 20 1976

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	U ppm	REMARKS
FS-1	15	39	65	3	1.3	
2	23	32	81	4	1.4	
3	4	14	10	2	N.D.	
4	15	22	57	2	3.0	
5	5	18	16	N.D.	N.D.	
6	16	32	73	3	1.8	
7	17	38	59	5	1.8	
8	20	50	49	4	L 1.0 *	
9	4	5	N.D.	N.D.	N.D.	
10	17	19	59	3	2.0	
11	16	20	47	6	1.8	
12	16	18	65	3	2.2	
13	16	16	73	3	2.3	
14	13	40	57	1	N.D.	
15	11	16	50	5	1.5	
16	9	14	51	3	1.3	
17	7	23	33	6	N.D.	
18	19	25	135	3	0.9	
19	10	14	77	1	0.8	
20	7	12	45	N.D.	1.3	
21	7	10	41	1	0.8	
22	6	11	50	N.D.	1.0	
23	12	32	51	4	3.0	
24	2	7	2	N.D.	0.3	
25	11	38	50	3	4.8	
26	9	17	66	3	4.8	
27	10	16	84	9	4.8	
28	9	11	102	N.D.	0.5	
29	9	14	67	2	0.3	
30	9	15	70	3	1.0	
31	11	25	86	N.D.	0.1	

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 1702-6

Page No. 2

SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	Mo ppm	U ppm		REMARKS
FS-32		8	17	61	2	0.1		
33		9	16	59	2	N.D.		
34		4	13	26	4	0.1		
35		8	22	48	2	0.1		
36		8	11	84	1	1.0		
37		5	8	36	1	0.3		
38		12	19	73	4	0.9		
39		9	23	80	3	1.5		
40		7	10	55	2	1.3		
41		9	14	77	2	0.9		
42		12	25	119	1	1.7		
43		16	45	161	4	1.3		
44		12	16	63	3	1.7		
45		3	8	6	2	N.D.		
46		2	7	10	2	N.D.		
47		8	18	55	3	0.6		
48		2	9	11	N.D.	N.D.		
49		8	14	42	3	4.0		
50		12	21	55	5	4.5		
51		15	22	150	N.D.	1.1		
52		15	31	138	N.D.	0.4		
53		10	12	68	N.D.	1.0		
54		15	49	55	2	0.8		
55		14	15	106	2	1.4		
56		16	28	100	2	1.5		
57		8	13	92	4	2.0		
58		10	16	64	N.D.	1.0		
59		11	15	110	2	0.8		
60		11	18	115	4	1.8		
61		10	15	83	2	0.8		
62		I.S.	I.S.	I.S.	I.S.	I.S.		
63		13	17	85	N.D.	0.8		
64		10	14	73	N.D.	0.3		
65		20	35	195	N.D.	0.8		
66		12	15	63	2	4.2		
67		10	10	71	4	1.0		

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Geochemical Lab Report

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SAMPLE NO.	CU ppm	Pb ppm	Zn ppm	Mo ppm	U ppm	REMARKS
FS-68	14	16	98	N.D.	1.0	
69	13	18	74	N.D.	0.6	
70	15	49	108	1	N.D.	
71	13	50	49	1	N.D.	
72	13	16	89	N.D.	0.8	
73	12	12	59	N.D.	1.5	
74	16	27	61	N.D.	1.3	
75	12	12	48	N.D.	0.3	
76	18	21	72	N.D.	1.1	
77	14	14	65	2	2.3	
78	14	18	106	N.D.	1.0	
79	10	15	104	4	0.3	
80	4	7	57	2	N.D.	
81	10	13	48	2	0.9	
82	12	12	56	3	1.8	
83	I.S.	I.S.	I.S.	I.S.	I.S.	
84	12	12	62	N.D.	L 0.5	*
85	19	48	55	2	11.2	
86	28	27	53	2	0.5	
87	23	51	52	5	0.2	
88	2	8	2	N.D.	0.4	
89	20	40	60	N.D.	1.0	
90	20	50	44	2	L 1.0	*
91	17	52	23	2	L 1.0	*
92	16	13	48	4	0.8	
93	16	49	61	N.D.	N.D.	
94	15	15	62	N.D.	1.5	
95	22	15	88	N.D.	0.8	
96	18	40	36	2	N.D.	
97	14	13	46	1	1.7	
98	16	15	69	2	2.0	
99	14	10	63	N.D.	1.5	
100	16	17	92	N.D.	N.D.	
101	12	14	65	N.D.	0.4	
102	12	12	70	N.D.	0.4	
103	12	15	71	N.D.	N.D.	

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Geochemical Lab Report

 Report No. 1702-6

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SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	U ppm	REMARKS
ES-104	9	15	93	N.D.	0.8	
05	7	11	109	4	0.6	
06	11	19	52	54	8.0	
07	25	37	55	132	4.5	
08	9	11	60	1	0.5	
09	8	14	69	N.D.	0.4	
10	7	41	32	N.D.	1.8	
11	8	11	61	N.D.	0.5	
12	9	16	74	N.D.	0.3	
13	7	54	21	5	L 1.0	*
14	9	50	22	2	0.2	
15	12	49	27	2	4.6	
16	9	29	26	5	4.5	
17	9	14	34	3	13.7	
18	7	12	44	2	2.3	
19	11	11	104	N.D.	1.1	
20	13	16	180	N.D.	0.9	
21	9	13	59	N.D.	4.6	
22	8	16	70	N.D.	3.3	
23	11	12	63	N.D.	3.8	
24	I.S.	I.S.	I.S.	I.S.	I.S.	
25	14	15	104	3	1.0	
26	8	9	68	3	2.0	
27	13	20	73	1	1.5	
28	I.S.	I.S.	I.S.	I.S.	I.S.	
29	9	8	52	N.D.	2.3	
30	7	9	68	4	1.0	
31	11	9	59	6	3.5	
32	7	9	37	3	0.3	
33	11	30	77	1	0.3	
34	7	11	68	2	1.8	
35	I.S.	I.S.	I.S.	I.S.	I.S.	
36	8	9	42	3	5.4	
37	10	11	70	4	0.8	
38	10	17	62	6	6.0	
39	22	28	59	13	6.5	

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BONDAR-CLEGG & COMPANY LTD.

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SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	U ppm	REMARKS
ES-40	10	14	85	2	0.7	
41	12	13	67	1	3.0	
42	9	13	57	2	2.8	
43	9	10	70	1	3.3	
44	8	10	67	3	1.2	
45	10	17	73	3	0.7	
46	9	12	72	2	3.7	
47	5	11	31	2	2.0	
48	8	11	76	4	18.3	
49	7	11	24	3	3.8	
50	8	53	25	N.D.	L 1.0 *	
51	13	28	60	N.D.	2.0	
52	11	51	25	N.D.	L 1.0 *	
53	9	20	40	2	0.3	
54	4	21	8	N.D.	0.3	
55	12	29	61	3	2.8	
56	9	15	54	2	1.6	
57	8	16	41	2	2.2	
58	7	12	39	N.D.	2.2	
59	18	19	74	N.D.	2.7	
60	13	30	82	6	7.8	
61	7	10	52	N.D.	1.8	
62	9	11	75	4	2.4	
63	8	13	26	3	0.8	
64	9	12	59	4	4.2	
65	13	17	59	5	8.5	
66	9	11	44	3	6.0	
67	7	10	59	2	1.0	
68	8	17	78	N.D.	N.D.	
69	9	10	104	4	0.8	
70	8	9	77	3	1.0	
71	13	10	102	3	2.3	
72	9	20	79	2	0.9	
73	10	50	53	2	0.3	
74	11	13	71	3	0.5	
75	10	11	100	4	0.4	

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BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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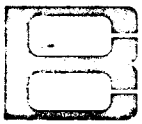
SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	U ppm	REMARKS
FS-76	8	17	110	N.D.	0.1	
77	8	45	43	N.D.	0.5	
78	10	32	78	3	0.1	
79	40	38	80	1	1.5	
80	10	39	82	5	1.1	
81	12	28	72	3	1.1	
82	18	43	83	N.D.	2.6	
83	17	15	83	N.D.	1.0	
84	9	9	77	2	0.3	
85	20	47	51	1	0.8	
86	9	14	56	N.D.	1.7	
88 87	7	10	116	4	0.4	
89	8	11	128	N.D.	0.3	
90	9	49	39	1	0.3	
91	10	12	70	6	1.0	
92	12	11	51	1	4.0	
93	4	17	27	2	1.3	
94	10	50	29	3	L 1.0 *	
95	20	31	67	10	2.8	
96	9	8	70	N.D.	0.5	
97	9	9	117	1	1.0	
98	11	9	78	2	4.8	
99	10	25	110	2	0.3	
200	8	15	81	N.D.	0.8	
01	7	33	138	1	0.5	
02	10	13	61	3	5.0	
03	8	12	59	3	4.8	
04	9	12	88	3	4.2	
05	8	14	57	4	3.3	
06	9	11	78	2	6.5	
07	8	15	69	2	3.6	
08	8	12	61	1	5.0	
09	8	12	49	1	7.0	
10	7	15	49	N.D.	0.8	
11	11	28	107	2	1.0	

* High detection limit due to interferences.

N.D.: Not detected

I.S.: Insufficient sample

L: Less than



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Fraction U Report No. 1701-6
 Method Fission Track From Dension Mines Limited
 Fraction Used As received Date November 3 19 76

SAMPLE NO.	U ppb	SAMPLE NO.	U ppb
FW-1	0.09	FW-14	0.04
2	0.10	45	0.09
3	0.11	46	0.06
4	0.10	47	0.09
5	0.11	48	0.12
6	0.15	49	0.08
7	0.10	50	0.23
8	0.06	51	0.14
9	0.10	52	0.05
11	0.15	53	0.15
13	0.08	54	0.08
14	0.11	55	0.18
16	0.03	56	0.14
19	0.08	57	0.10
24	0.11	58	0.11
28	0.07	59	0.03
29	0.11	60	0.05
30	0.22	61	0.14
31	0.07	63	0.14
32	0.10	64	N.D.
33	0.07	65	0.07
34	0.10	66	N.D.
35	0.14	67	0.14
36	0.05	68	0.16
37	0.08	69	0.15
38	0.08	70	0.10
39	0.06	71	0.14
40	0.03	72	0.15
41	0.05	73	0.17
42	0.08	74	0.12
43	0.16	75	0.08

CW

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 1701-6

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SAMPLE NO.	U Ppb	SAMPLE NO.	U Ppb
FW-76	0.10	FW-112	0.07
77	0.09	113	0.30
78	0.08	114	0.18
79	0.26	115	0.23
80	0.18	116	0.36
81	0.13	117	0.46
82	0.05	118	0.13
83	0.11	119	0.07
84	0.48	120	0.04
85	0.26	121	0.10
86	0.25	122	0.33
87	0.38	123	0.15
88	0.43	125	0.10
89	0.29	126	0.10
90	0.14	127	0.20
91	0.47	129	0.10
92	0.13	130	0.23
93	0.29	131	0.13
94	0.17	132	0.03
95	0.03	133	0.09
96	0.09	134	0.16
97	0.18	136	0.16
98	0.14	137	0.08
99	0.07	138	0.40
100	0.11	139	0.62
101	0.07	140	0.11
102	0.02	141	0.03
103	0.08	142	0.22
104	0.39	143	0.21
105	0.27	144	0.08
106	0.12	145	0.03
107	0.37	146	0.02
108	0.15	147	0.09
109	0.14	148	0.17
110	0.09	149	0.09
111	0.05	150	0.19

CW

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 1701-6

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SAMPLE NO.	U ppb		SAMPLE NO.	U ppb
FW-151	0.05		FW-187	0.09
152	N.D.		188	0.07
153	0.12		189	0.16
154	0.11		190	0.29
155	0.25		191	0.08
156	0.11		192	0.17
157	0.14		193	0.17
158	0.07		194	0.59
159	0.23		195	0.20
160	0.27		196	0.04
161	0.18		197	0.14
162	0.10		198	0.27
163	0.15		199	0.19
164	0.15		200	0.07
165	0.65		201	0.23
166	0.26		202	0.12
167	0.01		203	0.17
168	0.39		204	0.47
169	0.11		205	0.26
170	0.17		206	0.10
171	0.02		207	0.14
172	0.06		208	0.39
173	0.08		209	0.13
174	0.04		210	0.06
175	0.10		211	0.24
176	0.26			
177	0.08			
178	0.12			
179	0.16			
180	0.14			N.D.: Not detected
181	0.25			
182	0.10			
183	0.07			
184	0.21			
185	0.05			
186	0.06			

R-3 | R-2

R-2 | R-1

28th BASE LINE
Twp 108

Twp 108
Twp 107

Twp 108
Twp 107

R-3 | R-2

R-2 | R-1

Twp 107

58° 15' +
110° 40'

58° 15' +
110° 00'

SCALE 1:63 360

ANOMALOUS SAMPLES

SAMPLE	ANOMALOUS LEVELS
27	Mo - 9
43	Zn - 161
65	Zn - 195
84	Uw - 0.48
95	Ua - 11.2
96	Cu - 28
88	Uw - 0.43
91	Uw - 0.47
106	Ua - 8.0 Mo - 54
107	Mo - 132 Cu - 25
117	Ua - 15.7 Uw - 0.46
120	Zn - 190
139	Ua - 6.5 Mo - 13
148	Ua - 18.3
160	Ua - 7.8
165	Ua - 8.5 Uw - 0.65
179	Cu - 40
194	Uw - 0.59
195	Mo - 10
204	Ua - 0.47
206	Ua - 6.5
209	Ua - 7.0

LEGEND:

- *123* SAMPLE
 - *124(51)* SAMPLE SKIPPED
 - TRAVERSE
 - LAKE
 - Cu U-Water
 - Zn U-Sed
 - Mo
- Anomalous levels:
- Lake Sediments - Cu + 24ppm
 - Pb + 55 ppm
 - Zn + 151 ppm
 - Mo + 8 ppm
 - U + 6.5 ppm
 - Lake Waters - U + 0.41ppb

DENISON MINES LIMITED
 4 KING STREET WEST
 TORONTO, ONTARIO, M5H 1C2

Project: **OLD FORT RIVER**
GEOCHEMICAL SAMPLE
LOCATION PLAN
ALBERTA

Drawn by: PALLOKS	GEOLOGIST: PALLOKS	NTS	Dwg. No.
Date: 22.9.76			74 L 7/8 1
Scale: ONE INCH TO ONE MILE			

EXPL PERMIT 232-233
 19770015
 FIGURE 8
 67

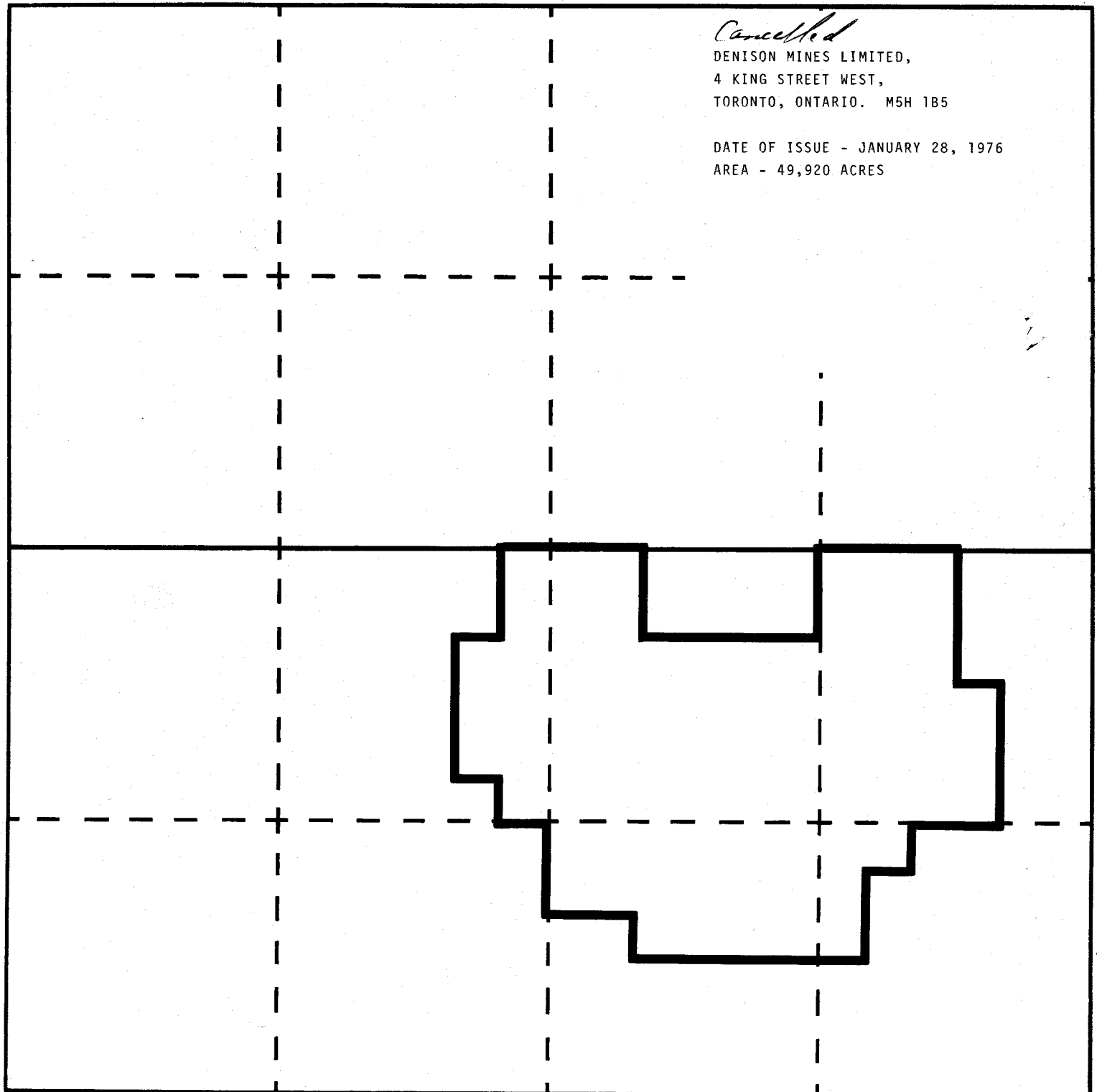
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Cancelled

DENISON MINES LIMITED,
4 KING STREET WEST,
TORONTO, ONTARIO. M5H 1B5

DATE OF ISSUE - JANUARY 28, 1976

AREA - 49,920 ACRES



R.4

R.3

R.2 W.4 M.

TP.108

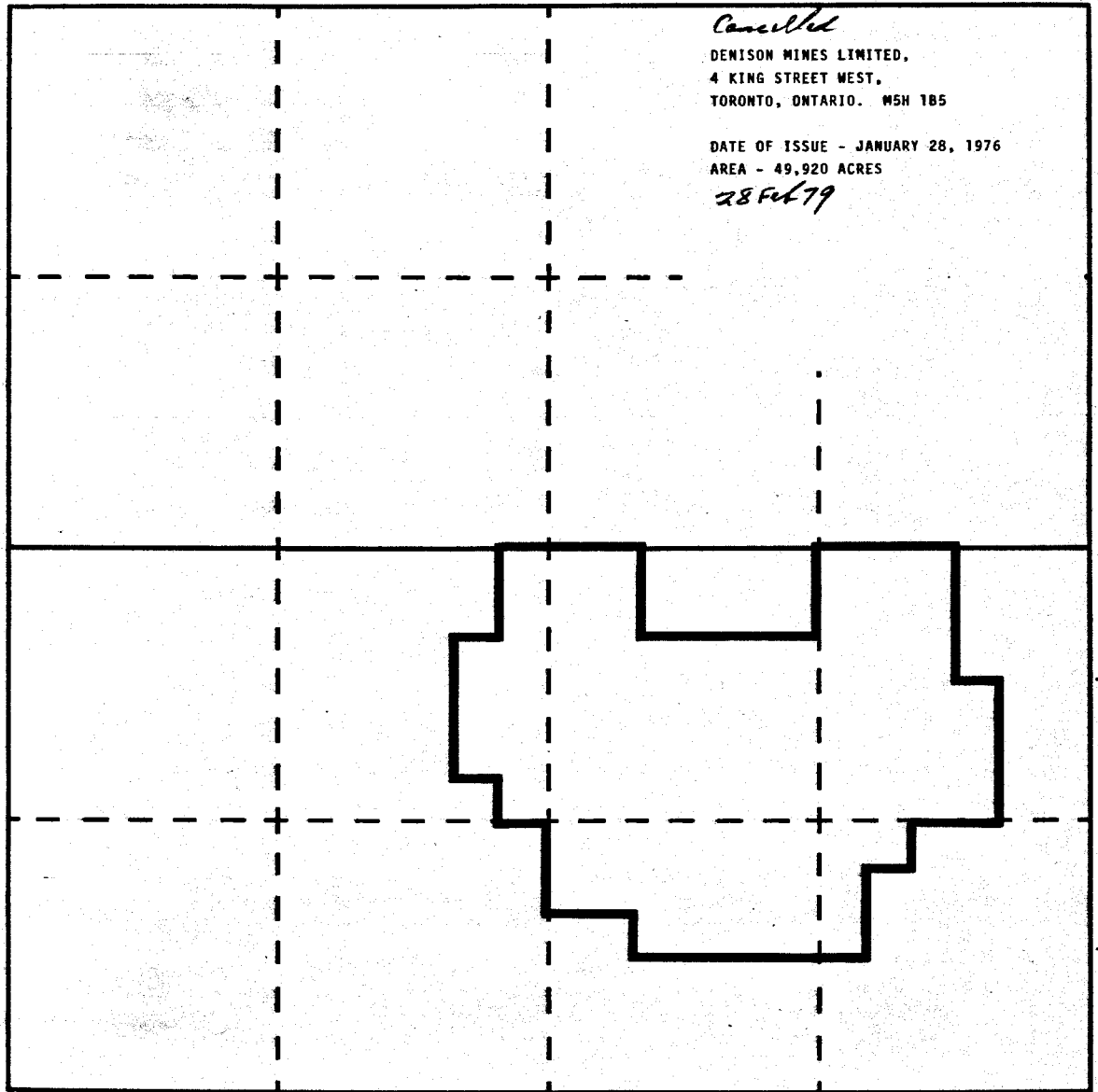
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19770015

19770015

U-AF-129

QUARTZ MINERAL EXPLORATION PERMIT No. 232



Cancelled

DENISON MINES LIMITED,
4 KING STREET WEST,
TORONTO, ONTARIO. M5H 1B5

DATE OF ISSUE - JANUARY 28, 1976
AREA - 49,920 ACRES

28 Feb 79

R.4

R.3

R. 2 W.4 M.

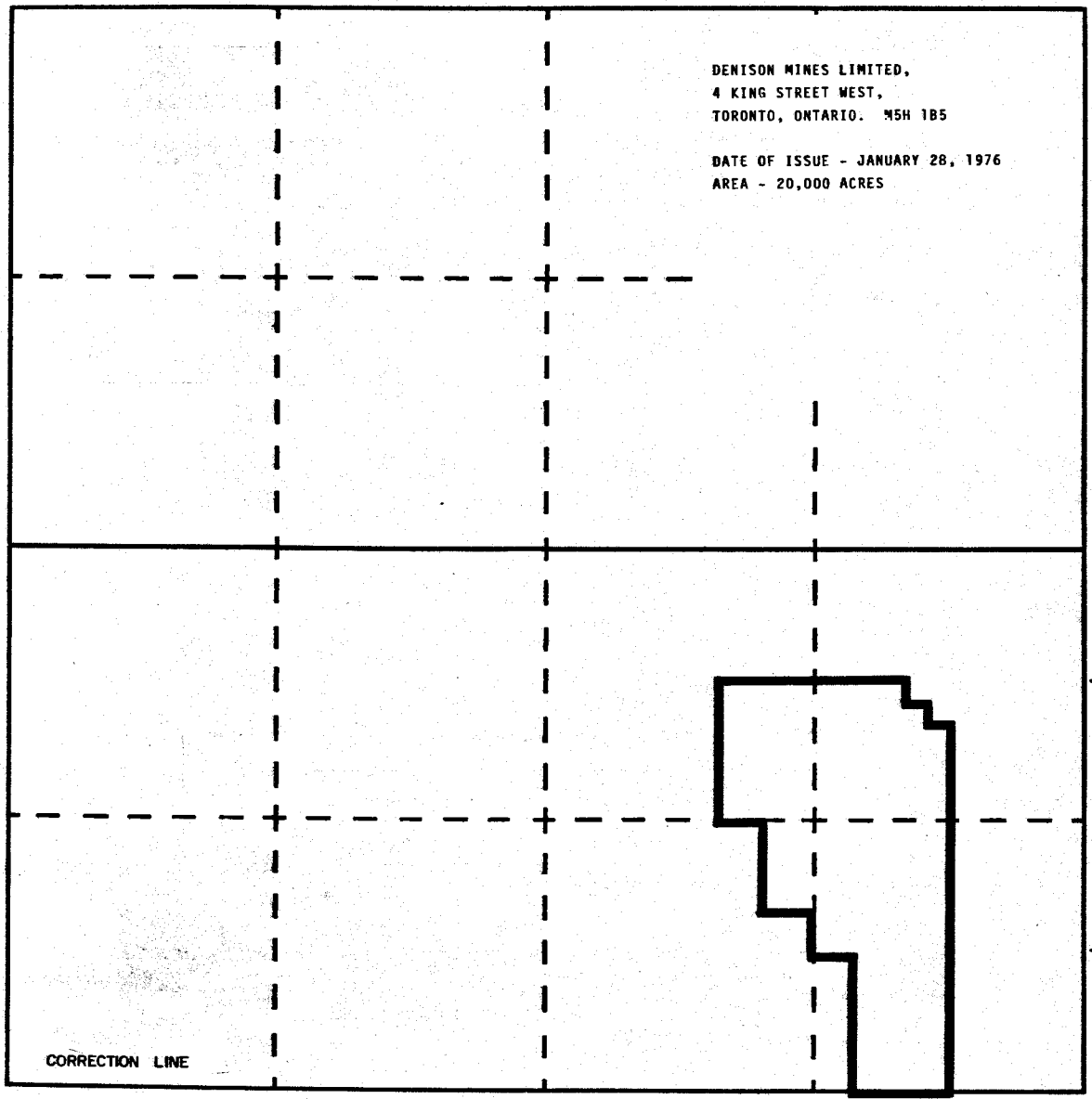
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TP.107

19770015

19770015

QUARTZ MINERAL EXPLORATION PERMIT No. 2336 u-AF-130



DENISON MINES LIMITED,
4 KING STREET WEST,
TORONTO, ONTARIO. M5H 1B5

DATE OF ISSUE - JANUARY 28, 1976
AREA - 20,000 ACRES

CORRECTION LINE

TP. 108

TP. 107

R. 2

R. 1 W. 4 M.