

REPORT ON THE
SEL 1-212 MINERAL CLAIMS
110 MILES EAST OF ROSS RIVER, YUKON TERRITORY
FOR
TRIDENT RESOURCES INCORPORATED

061008

11390.03

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$11390.03

D.B. Craig
Resident Geologist or
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]
Commissioner of Yukon Territory

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ILLUSTRATIONS

Cumulative Percent Frequency Plot (Copper)	
Cumulative Percent Frequency Plot (Lead)	
Cumulative Percent Frequency Plot (Zinc)	
Location Map	Scale 1" = 80 miles & 1" = 1 mile
Claim Map	Scale 1" = ½ mile
Geochemical Map (Lead Values) - two sheets	Scale 1" = 400'
Geochemical Map (Zinc Values) - two sheets	Scale 1" = 400'

REPORT ON THE
SEL 1-212 MINERAL CLAIMS
110 MILES EAST OF ROSS RIVER, YUKON TERRITORY
for
TRIDENT EXPLORATIONS INCORPORATED

1-00

SUMMARY

The SEL 1-212 mineral claims are situated 110 miles east of Ross River, Yukon Territory. Co-ordinates of the property are $62^{\circ} 51'$ N latitude and $129^{\circ} 53'$ W longitude. The property was located on behalf of the Selwyn Syndicate to cover zinc soil anomalies and gold quartz veins found by prospecting during the summer of 1973. Following the discovery of the gold showings and prospecting with the aid of a total heavy metal kit, several areas anomalous in zinc and copper were located. Additional staking followed and a reconnaissance soil survey was initiated indicating several promising soil anomalies in zinc. Peak values obtained are in the order of 14,000 to 16,000 ppm zinc in soils.

The writer did not visit the SEL 1-212 mineral claims, but directed the prospecting for the Selwyn Syndicate. All initial work was completed under supervision of D. Taylor, M.Sc., Geologist of Agilis Engineering.

2-00 CONCLUSIONS

The SEL mineral claims are underlain by a sedimentary sequence, Devonian to Mississippian in age, intruded by a granodiorite stock in the north western portion of the claims. Quartz veins and alteration zones have been located in the vicinity of the intrusive contact and within the intrusive.

The main alteration recognized is kaolinization and possibly albitization. Quartz veins associated with these zones carry gold, chalcopyrite and arsenopyrite and are up to 20 feet wide.

Field evidence suggest the presence of 2 to 3 zones up to 1,000 feet long. Preliminary sampling suggest gold values up to 0.124 oz/per ton and copper values up to 1.82%.

Geochemical soil sampling outlined several strong and promising zinc anomalies. These anomalous zones are located within the sediments. No rock outcrops were found in vicinity of the zinc highs. Soil condition and topographic features in the anomalous area rule out the possibility of a swamp anomaly. Further work is recommended to investigate the zinc anomalies and gold zones.

3-00 RECOMMENDATIONS

The following program consists of two phases. Initiation of Phase II depends upon the results of Phase I.

3-10 Program:

PHASE I

1. Topographic Map - A 1" = 400 feet scale topographic map of the property should be prepared from air photos.
2. Survey control - A control grid consisting of a north-west baseline and northeast lines at 400 feet with stations at 200 feet intervals should be established for ground control.
3. Geochemical Survey - soil or rock chip samples should be taken at 200 foot intervals along the lines and analyzed for lead and zinc. In the area of alteration and quartz veining, samples should also be analyzed for copper.
4. Geological Mapping - the property should be mapped at a scale of 1" = 400 feet on the topographic map using the grid for ground control.
5. Sampling and Mapping of Gold Showings - the gold-quartz veins and alteration zones should be sampled to establish grade and mapped in detail at a scale of 1" = 40 feet.

PHASE II

1. Trenching and drilling of areas from Phase I.
2. Trenching and detail sampling of gold showing.
3. Diamond drilling - 1,000 feet initially.

4-00

COST ESTIMATE

PHASE I

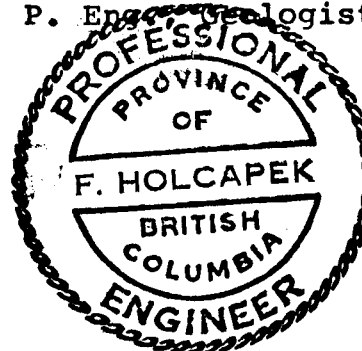
1. Preparation of Topographic map - allow	\$ 1,500.00
2. Mobilization and demobilization Vancouver to Ross River - allow	1,000.00
3. Survey control; grid 400 foot lines, 200 foot stations - allow for 200 line miles	10,000.00
4. Geochemical Survey; Pb, Zn, Cu sampling and analysis	6,000.00
5. Geological mapping - allow	5,000.00
6. Sampling and mapping of Gold showings	3,000.00
7. Transportation - fixed wing Ross River to property - 4 trips \$1/mile - 220 miles per trip	880.00
Helicopter allow 25 hours at \$160/hour	4,000.00
	<hr/>
	\$31,380.00
Plus 20% contingency	6,276.00
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TOTAL COST	\$37,656.00
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PHASE II

1. Trenching	\$3,000.00
2. Sampling and Assaying	2,000.00
3. Diamond drilling - 1,000 feet at \$16/foot	16,000.00
4. Mobilization - Demobilization	2,000.00
5. Fixed Wing Support and helicopter	5,000.00
6. Engineering - Supervision	<u>5,000.00</u>
	33,000.00
Plus 20% contingency	<u>6,600.00</u>
TOTAL COST:	39,600.00

TOTAL COST OF PHASE I AND II \$77,256.00

F. Holcapek
F. Holcapek,
P. Engineer/Geologist.



Vancouver, B.C.
January 3, 1974.

5-00

INTRODUCTION5-10 Scope and Date of Report

On request of Mr. R.H.D. Philp, on behalf of Trident Resources Incorporated, the writer reviewed all data available on the SEL 1-212 mineral claims located 110 miles east of Ross River, Yukon Territory. The purpose of this report is to evaluate the results obtained from previous work and to recommend further exploration.

The writer had not visited the property, but supervised the prospecting which led to the location of the SEL claims.

Ownership and Title

- The property consists of 212 contiguous mineral claims located in the Watson Lake Mining District, Yukon Territory. The claims were staked on behalf of the Selwyn Syndicate during the summer and late fall of 1973.

The property consists of the following mineral claims:

<u>NAME</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>
SEL 1-24	Y73933 - 56	August 2, 1973
SEL 25-110	Y74134 - 219	August 30, 1973
SEL 111-212	Y74429 - 530	October 1, 1973

5-20 History

The first major discovery in the general area of the SEL claims was the McMillan Pass base metal deposit approximately 24 miles north of the property. Hudson Bay Explorations and Development Co. Ltd., conducted extensive exploration from 1951 to 1970 and outlined ore reserves of 7 million tons grading 8% lead, 8% zinc and 2.7 ounces silver per ton.

There are two ore zones on the property. The west zone is concordant with the bedding of the sediments. The host rock is a barite rich limestone which passes along strike into black graphitic argillites within a few hundred feet of the mineralized zone. The east zone is considered to be a mineralized fault zone. The same company investigated a copper-zinc zone five miles south of the SEL claims. This showing is associated with a small intrusive stock.

During 1973, the Selwyn Syndicate was formed to prospect the Selwyn Basin area for sedimentary sulphide deposits. A two men party was engaged in prospecting and regional silt and soil sampling using a total heavy metal kit. The discovery of gold bearing quartz veins and total heavy metal anomaly lead to more detailed exploration and the staking of the Sel mineral claims.

The prospectors were under the direct supervision of a geologist.

6-00

GEOGRAPHY6-10 Location and Access

The property is located on the divide of the headwater of the Ross and Pelly River some 110 miles east of the community of Ross River, Yukon Territory.

Co-ordinates of the claim group are $62^{\circ} 51'$ N. latitude and $129^{\circ} 53'$ W. longitude.

Access to the mineral claims are by gravel roads from Whitehorse or Watson Lake to Ross River, and by scheduled airline from Whitehorse to Ross River, and then by helicopter to the property a distance of 110 miles. The Canol Road runs approximately 15 miles north of the property via a timbered valley.

6-20 Physiography and Climate

The gold showing is exposed on the north flank of a ridge from elevations of 5,000 to 6,100 feet. The heavy metal and zinc soil anomaly lies along the southern extension of the same ridge at the break of the slope at an elevation of about 4,500 feet.

The entire claim group lies above tree line with light brush along the southern boundary of the property. Topography in the area is generally steep, occasionally precipitous. A wide open valley lies immediately south of the claim group.

The mineral claim group lies within the central Yukon close to the northern tree line. Temperatures are extremely cold during winter with snow cover from October to mid June. Summers are mild with moderate precipitation. Snow fall during early and late summer is common but seldom lasts for more than a few days.

7-00

REGIONAL GEOLOGY

The property area has been mapped by the Geological Survey of Canada and information has been published on sheet 8-1967 Geology of the Nahanni. The area is shown to be underlain by Devonian and Mississippian black shales, argillites, chert pebble conglomerate, chert sandstone and siltstone with minor brown sandstone, siltstone and banded chert. A three to four mile diameter cretaceous intrusive stock of medium grained granodiorite cut the sediments.

Copper-zinc mineralization is reported to be associated with a small intrusive stock 5 miles south of the property.

7-10 Property Geology

The property is underlain by graphitic-manganous shales and argillites. The apparent lithology on the property moves from stratigraphic top to bottom from north to south. Attitude of the individual beds varies from N. 10° W. to N. 30° W. with dips changing from near vertical to 50° W. Field evidence suggest that the property covers the crestal region of a northwesterly trending anticline with the zinc soil anomaly occupying the central portion. The property has not been geologically mapped and hence the geological setting is not well understood.

7-20 Alteration and Mineralization

On the SEL 1-8 claim group in the vicinity of the intrusive, quartz veins carrying gold and arsenopyrite have been located. The veins cut slightly pyritic black argillites. A strong alteration zone, swelling and thinning, but apparently continuous, strikes subparallel to the bedding. The alteration zone has sharp wallrock definition, generally 2 to 3 inches wide and can be related to the intrusive; quartz veining with associated mineralization, kaolinization and possibly albitization are the main alteration products.

Sample results from gold veins:

	<u>Cu (%)</u>	<u>Au (oz/ton)</u>	<u>Ag (oz/ton)</u>
SEL 1	.07	.124	less than .01
2		.092	less than .01
3	.06	.010	.35
4	1.82	.082	.87

Field evidence suggest at least 2 or 3 zones with strike length of about 1,000 feet with widths of 5 to 20 feet.

On SEL 14, 16, 18 and 20 strong rust staining has been observed at the break of the slope. Dithizone field testing located a strong total heavy metal anomaly at least 4,000 feet long. A reconnaissance soil sampling program with samples submitted to Core Laboratories for atomic absorption analysis for lead, zinc and copper, confirmed this anomaly. The peak values obtained are in the order of 16,000 ppm zinc.

8-00

GEOCHEMICAL SURVEY

During the course of the initial prospecting of the SEL claims a reconnaissance soil sample program was initiated. Ground control was obtained by chaining and flagging the claim lines and establishing cross lines at 800 feet or 400 feet intervals. Stations were marked and samples taken 200 feet apart. A total of 633 samples were collected and submitted for assaying. Of these samples 528 were assayed for lead and zinc and 105 for lead, zinc and copper.

8-10 Sample Analysis

Samples were forwarded to Core Laboratories Ltd., 325 Howe Street, Vancouver, for analysis. After drying in an electric oven, the samples were screened and the minus 80 mesh fraction was digested in a hot perchloric-nitric acid solution.

Quantitative analysis for total lead, zinc and copper was performed by atomic absorption and results were recorded in parts per million (ppm).

8-20 Interpretation of Results

A frequency distribution plot was made of the entire population to determine background and anomalous range for lead, zinc and copper values. For this the accumulated frequency percent was plotted against the range of values in parts per million on arithmetic probability paper.

<u>No. of Sample</u>	<u>Range ppm</u>	<u>Background</u>	<u>%</u>	<u>Anomalous</u>	<u>%</u>
Cu - 105	8. to 240	less than 30	52.38	60+	12.39
Zn - 633	5 to 16,400	less than 600	89.09	1,000+	6.49
Pb - 633	8 to 100	less than 34	93.20	Not defined.	

The result of the reconnaissance geochemical survey indicated three potential anomalous zones.

ZONE 1

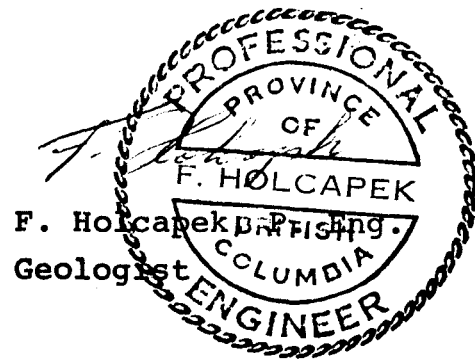
This anomalous zone lies between 80 E and 28 E following the location line of SEL 11, 12 to SEL 19, 20. More detailed sampling will be necessary to completely outline the dimension. Peak values are 16,200 ppm in Zinc.

ZONE 2

Zone 2 is located south of the location line of SEL 91, 92 on line 132E and open to the east. Peak values are in excess of 3,000 ppm Zn.

ZONE 3

This anomalous zone is indicated by two readings on line 176E, 6S, and 16S. Peak value is 3,000 ppm zinc.



F. Holcapek
Geologist

January 3, 1974

Vancouver, B.C.

<u>Interval</u>	<u>No. of Samples</u>	<u>%</u>	<u>Cumulative %</u>
<u>Zinc</u>			
1-200	422	66.66	66.66
201-400	98	15.48	82.14
401-600	44	6.95	89.09
601-800	17	2.68	91.77
801-1000	11	1.74	93.51
1001-1200	2	.32	93.83
1201-1400	4	.63	94.46
1401-1600	3	.48	94.94
1601-1800	3	.48	95.42
1800+	29	4.59	100.01
	<u>633</u>	<u>100.01</u>	
<u>Lead</u>			
0-10	149	23.54	23.54
11-20	230	36.33	59.84
21-30	211	33.33	93.20
31-40	29	4.58	97.78
41-50	6	.95	97.93
51-60	4	.63	99.36
61-70	2	.32	99.68
71-80	1	.16	99.84
80+	1	.16	100.17
	<u>633</u>	<u>99.98</u>	
<u>Copper</u>			
0-10	3	2.85	2.85
11-20	32	30.48	33.33
21-30	20	19.05	52.38
31-40	19	18.09	70.47
41-50	7	6.67	77.14
51-60	11	10.47	87.61
61-70	1	.95	88.56
71-80	2	1.90	90.46
81-90	1	.95	91.41
91-100			93.31

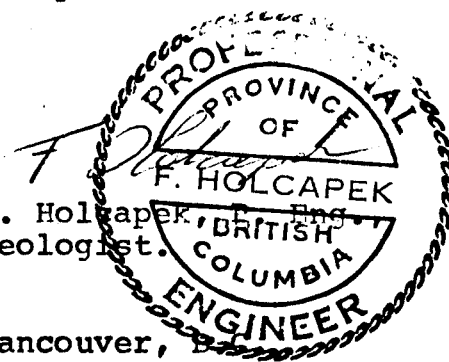
<u>Interval</u>	<u>No. of Samples</u>	<u>%</u>	<u>Cumulative %</u>
Copper (Cont)			
101-110	2	1.90	
111-120	3	2.85	96.16
121+	4	3.80	99.96
	<u>105</u>	<u>99.96</u>	

CERTIFICATION

I, Ferdinand Holcapek of 92-10842 152nd Street, Surrey, British Columbia, do hereby certify that:

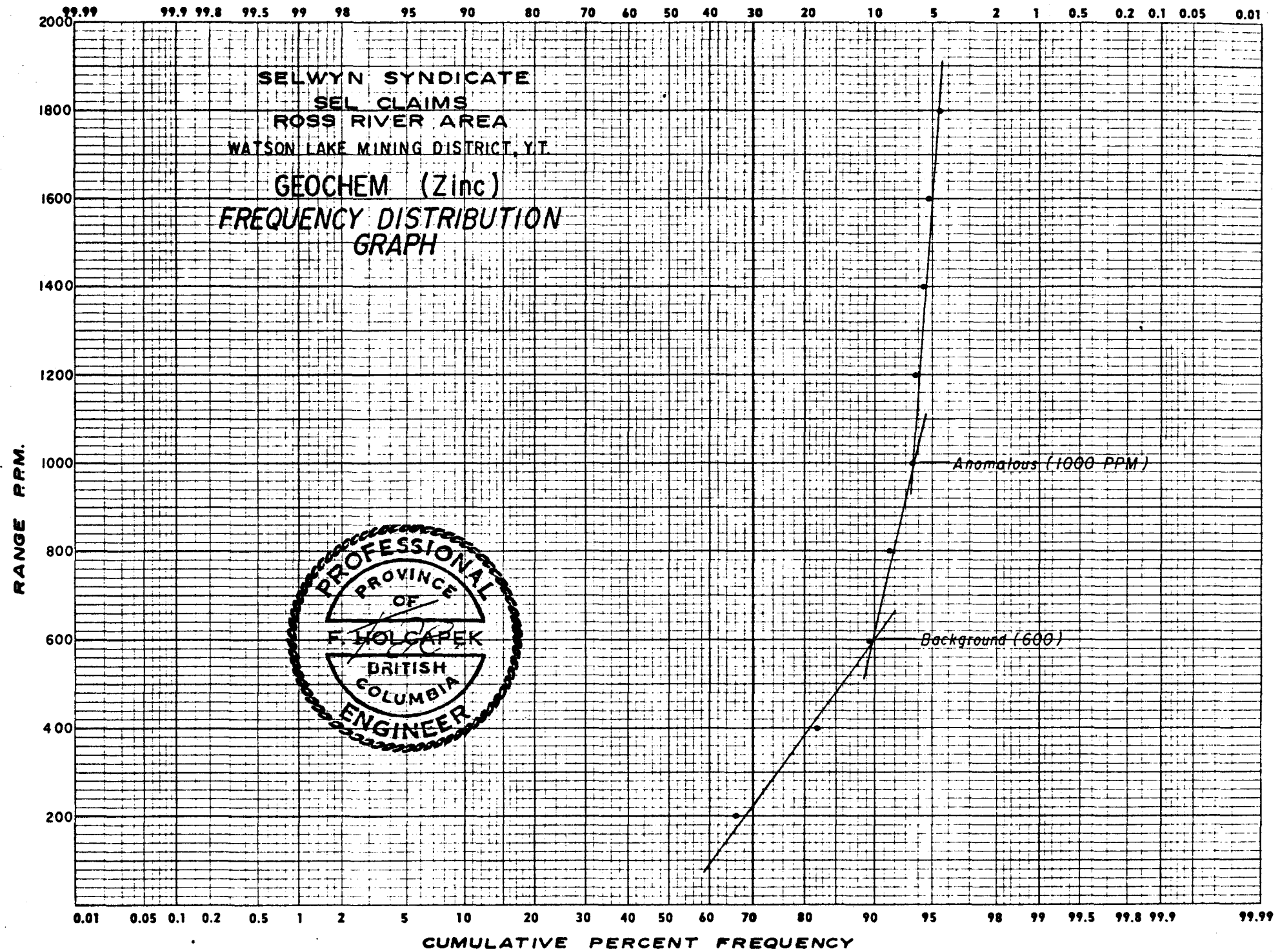
1. I am a graduate of the University of British Columbia, with a Bachelor of Science Degree in Geology, 1969.
2. Since graduation I have been engaged in mining exploration in British Columbia, Yukon Territory, Northwest Territories, Quebec, Nevada, Arizona and Australia.
3. I am a registered member, in good standing, of the Association of Professional Engineers of British Columbia.
4. I am a Consulting Geologist.
5. Agilis Engineering Ltd. as the Manager of the Selwyn Syndicate will receive 4% of the Vendor position of Trident Resources Inc. The wife of the writer, as the principle of Integrel Holdings Ltd., holds a 50% intrest in Agilis Engineering and hence 2% of the vendor position of Trident Resources Incorporated.

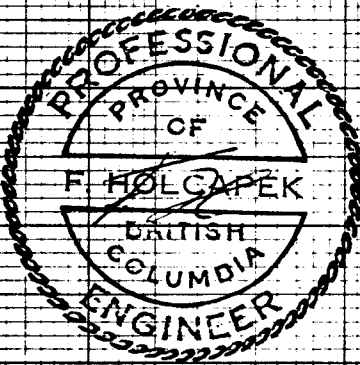
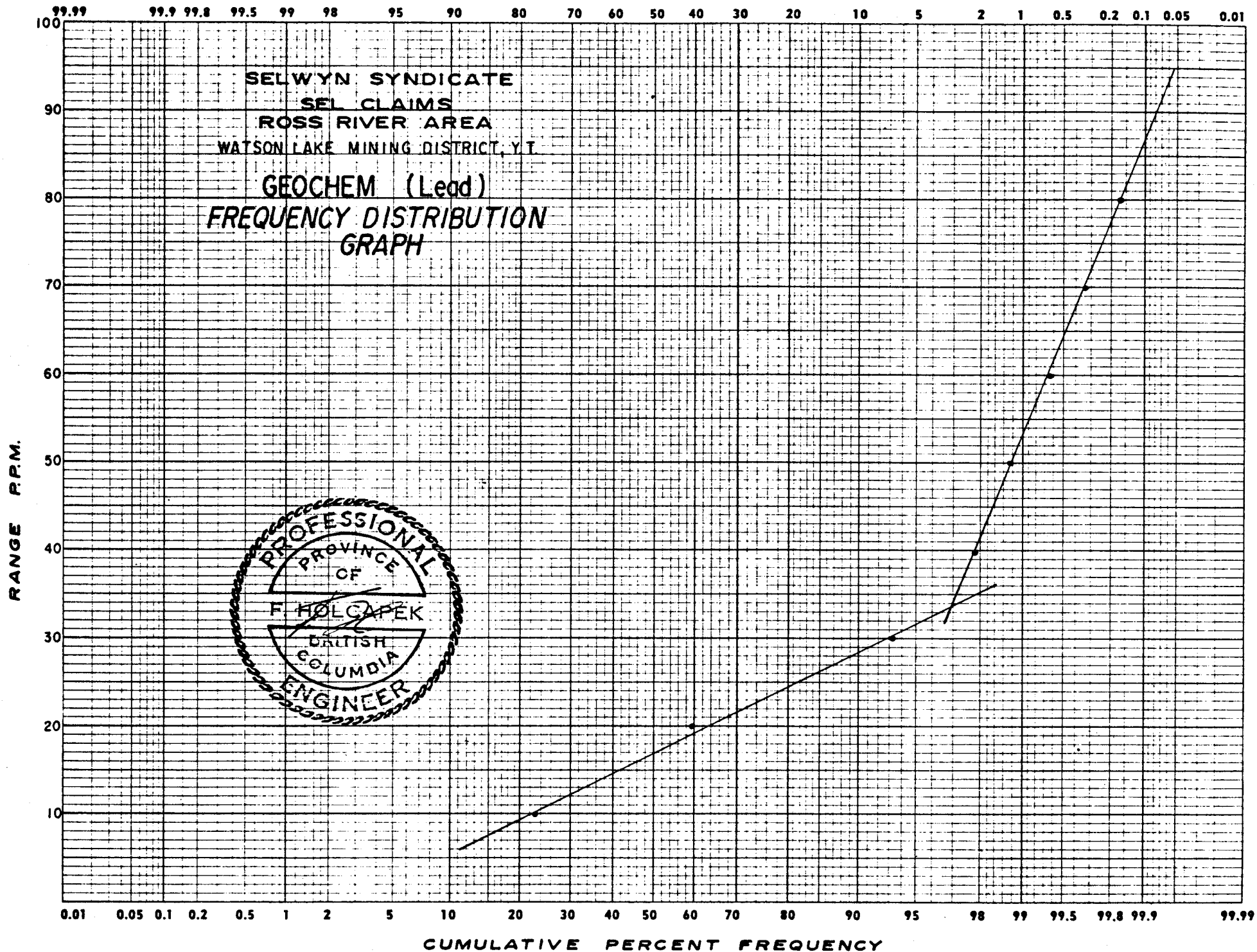
F. Holcapek, Eng.
Geologist.

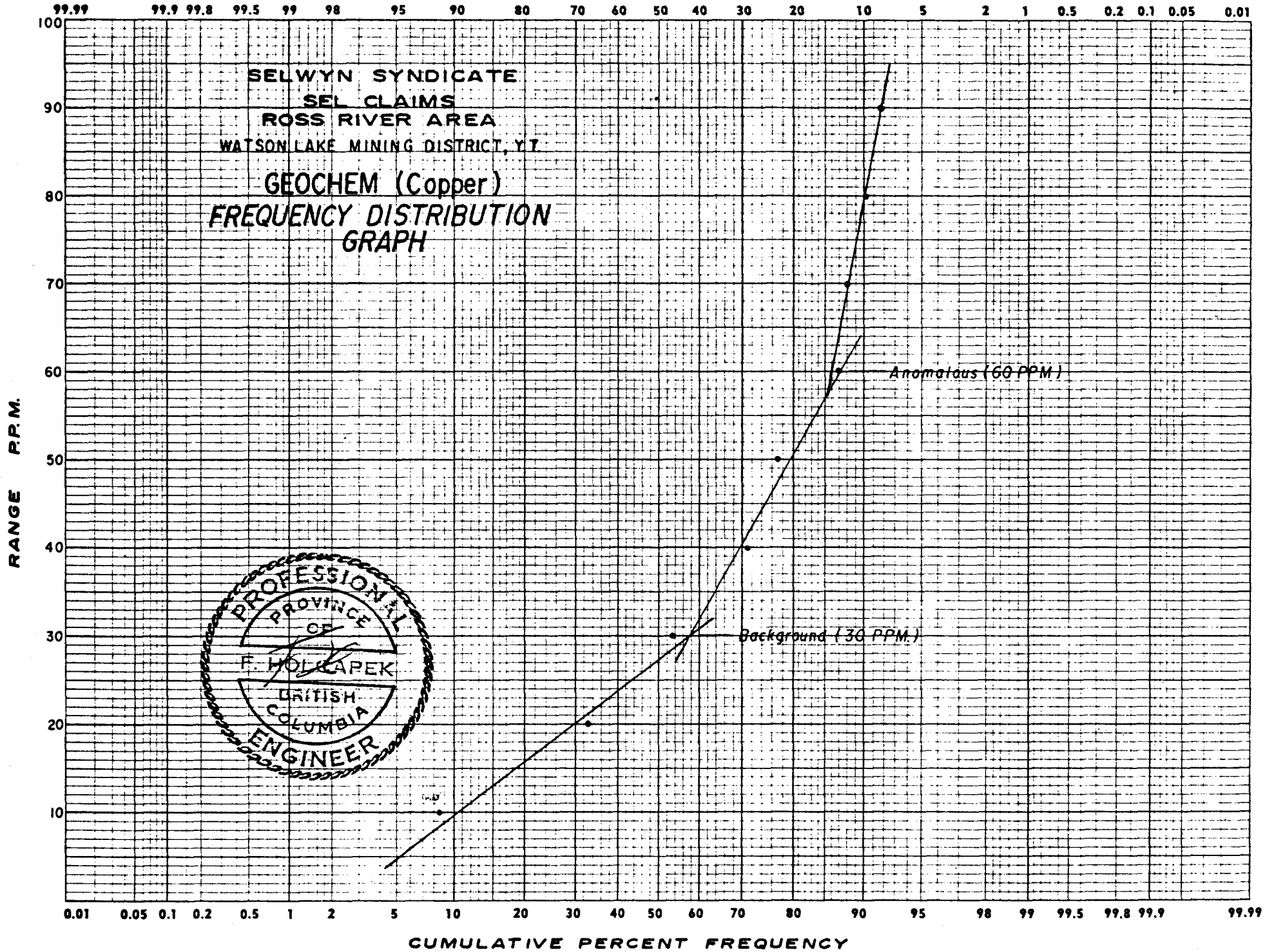


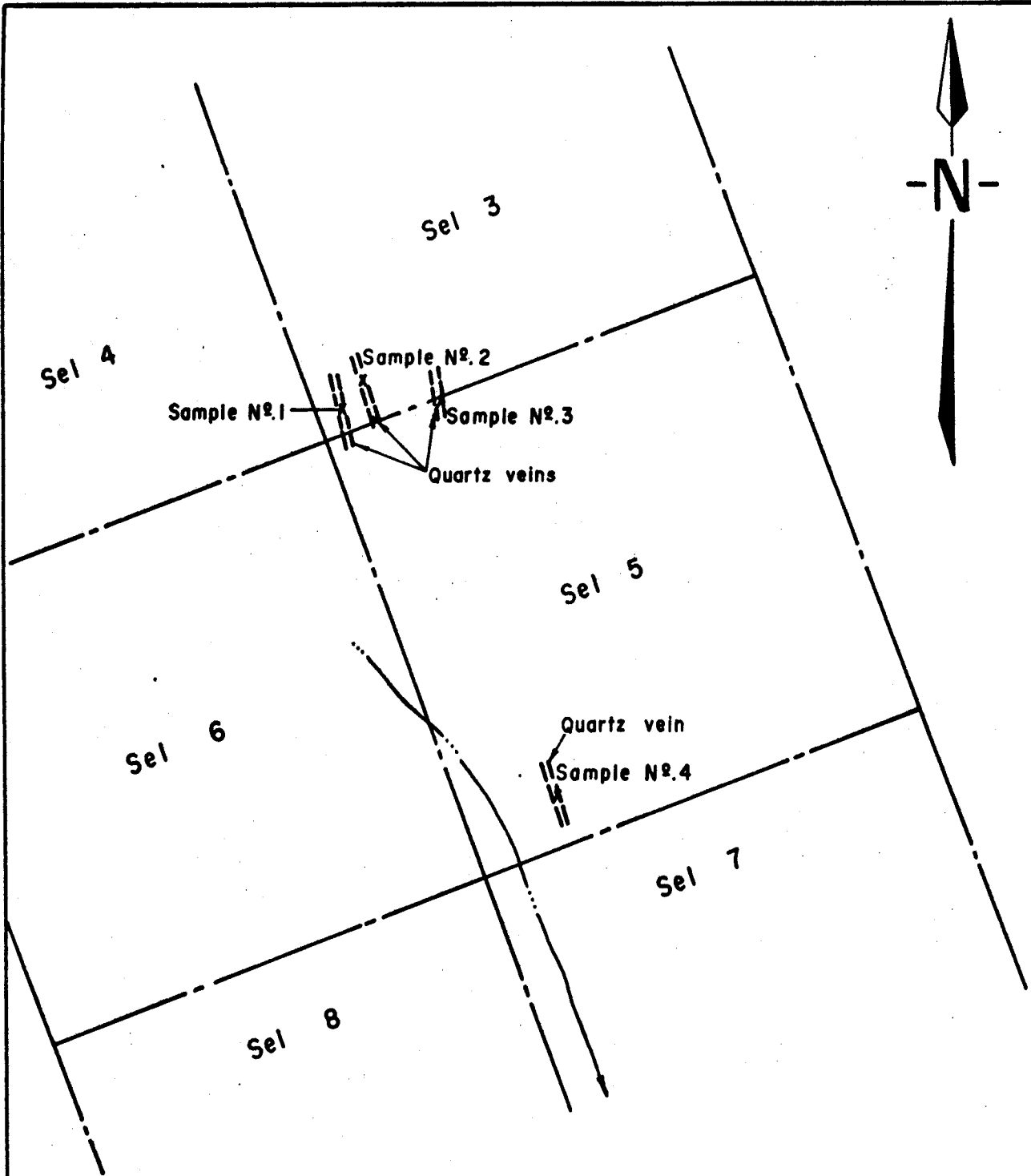
January 3, 1974

Vancouver, B.C.









Sample N°.	% Cu	Au (oz/t)	Ag (oz/t)
1	0.07	0.124	<0.01
2		0.092	<0.01
3	0.06	0.010	0.35
4	1.82	0.082	0.87

SEL CLAIMS
SKETCH MAP SHOWING ROCK SAMPLING RESULTS
 Scale 1" = 500'January 1974

YUKON TERRITORY

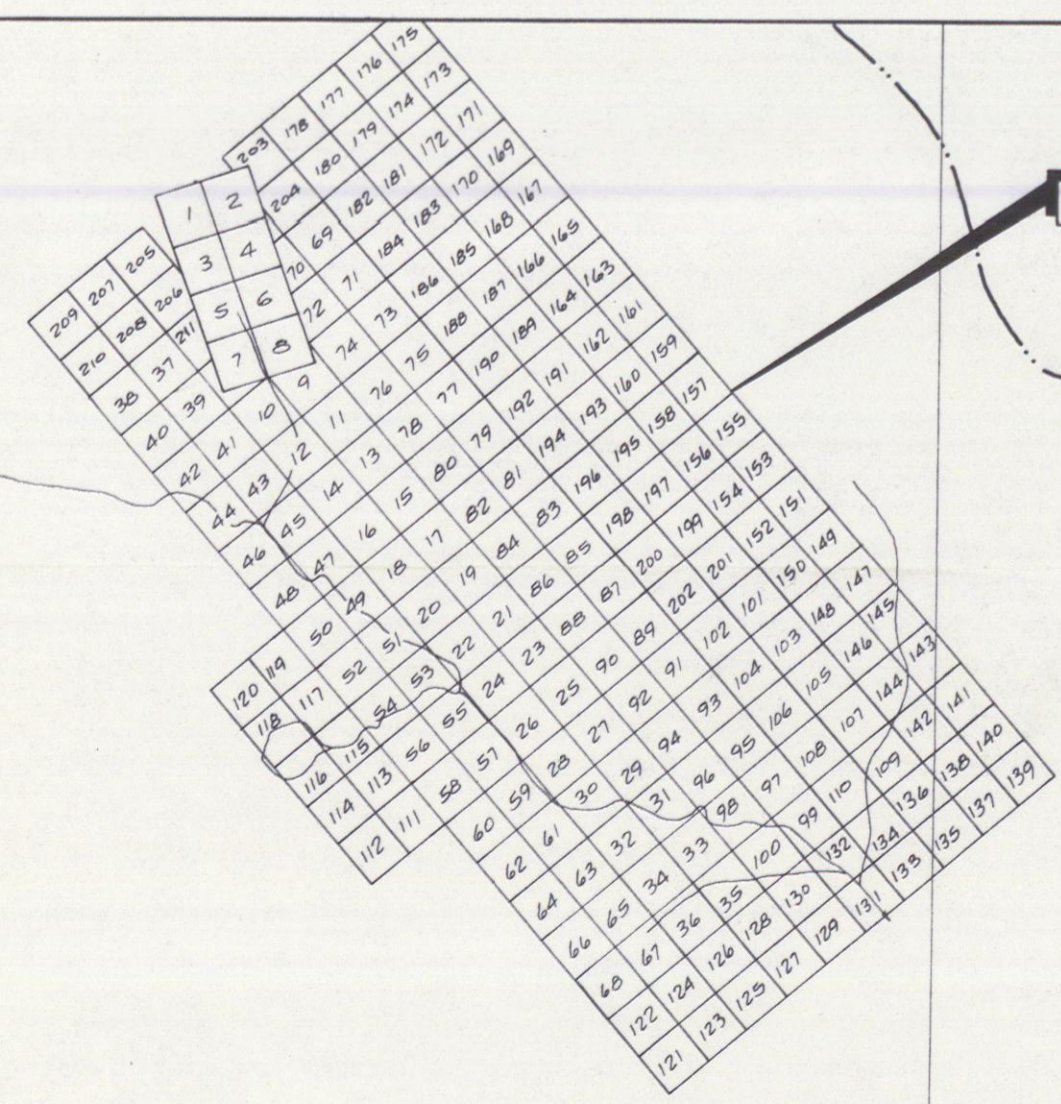
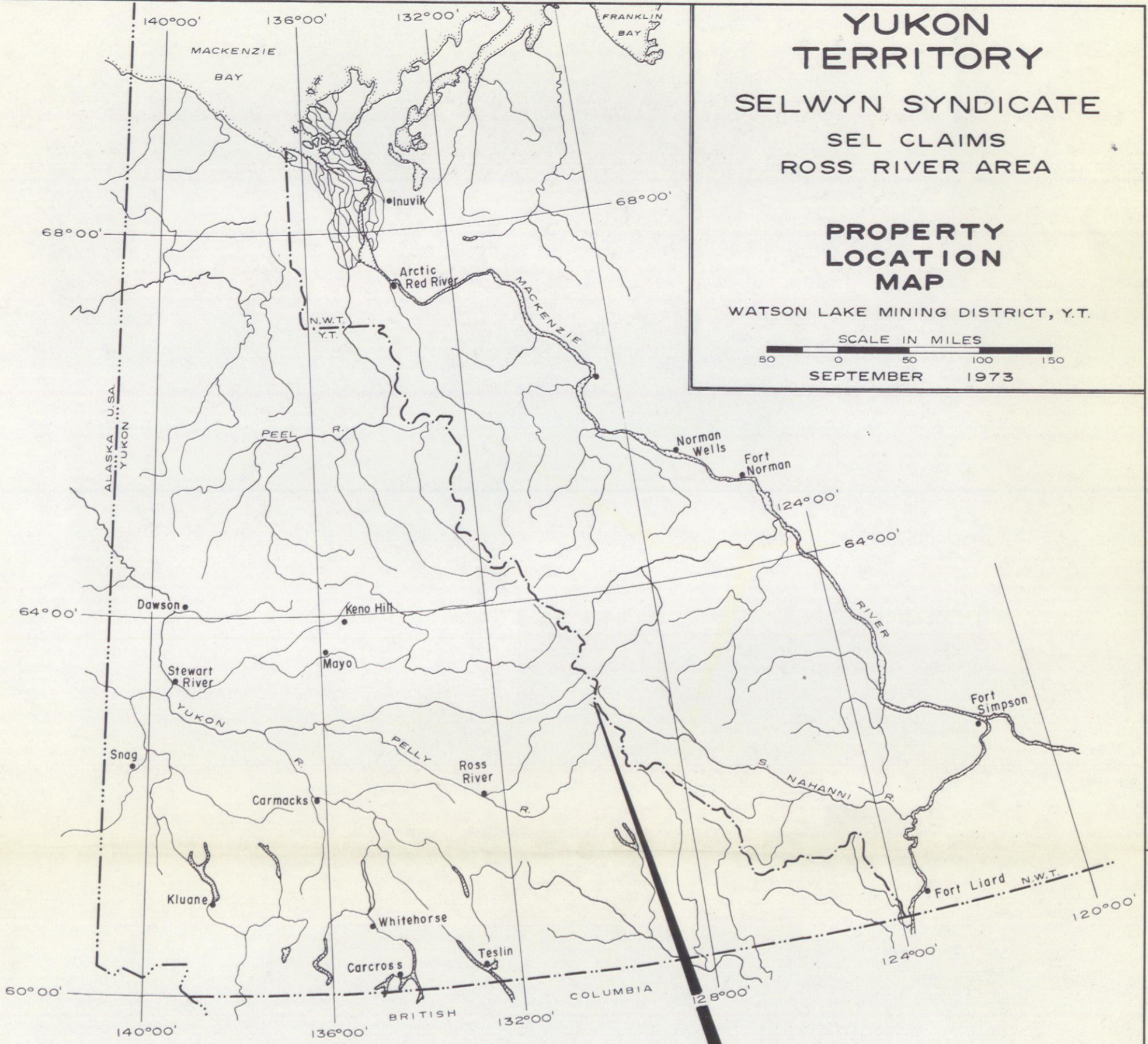
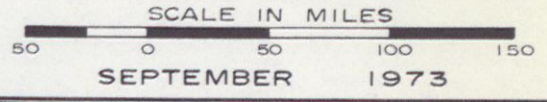
SELWYN SYNDICATE

SEL CLAIMS

ROSS RIVER AREA

PROPERTY LOCATION MAP

WATSON LAKE MINING DISTRICT, Y.T.



SEL CLAIMS

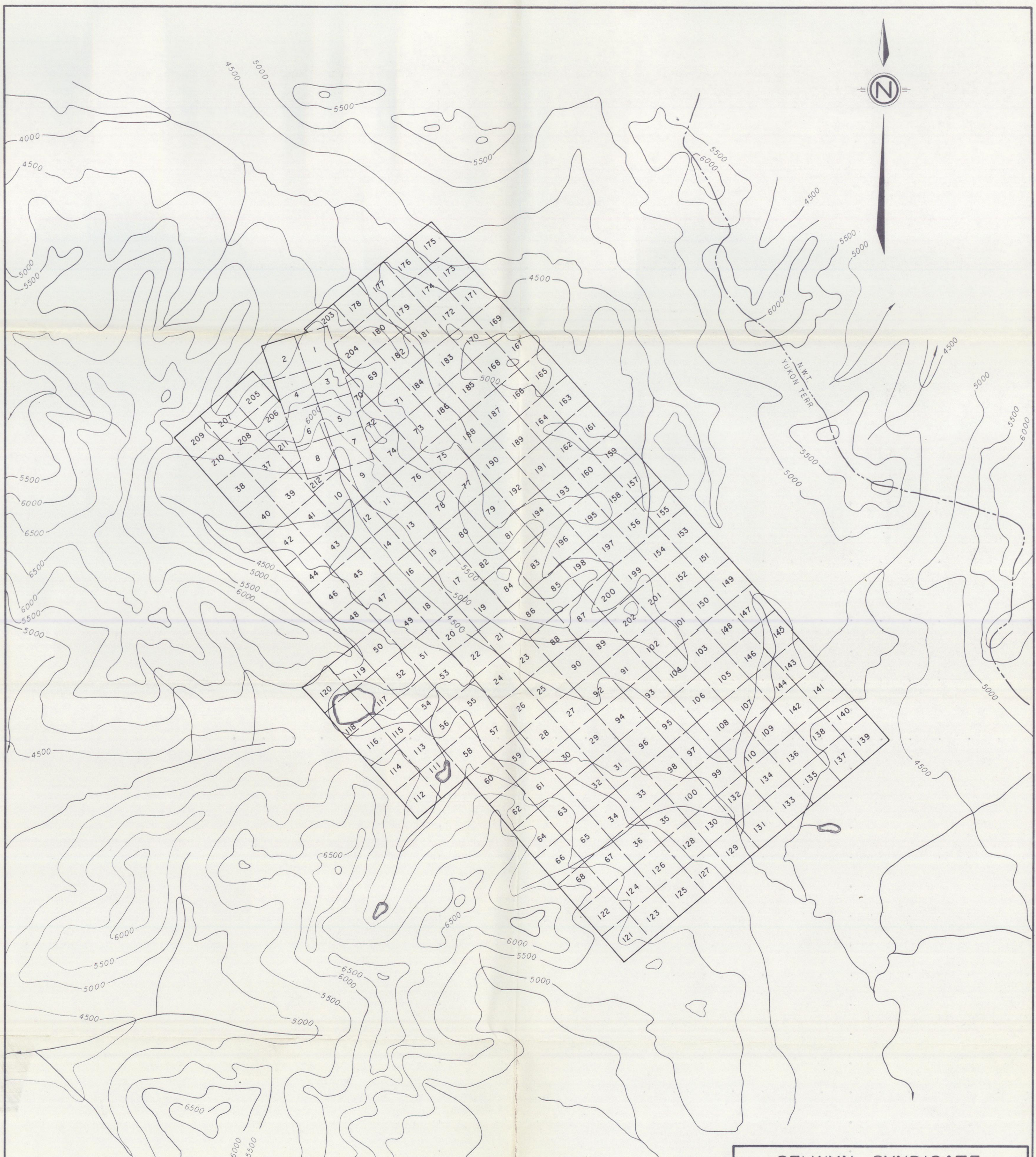
N.W.T.
YUKON



Scale 1" = 1 Mile

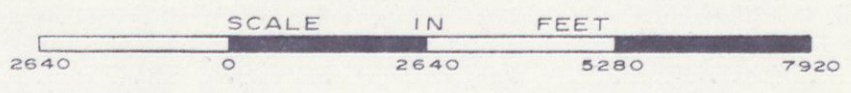
129°45'

62°45'



SELWYN SYNDICATE
SEL CLAIMS, ROSS RIVER AREA
WATSON LAKE MINING DISTRICT, Y.T.

CLAIM MAP



AGILIS ENGINEERING LTD. NOVEMBER 1973

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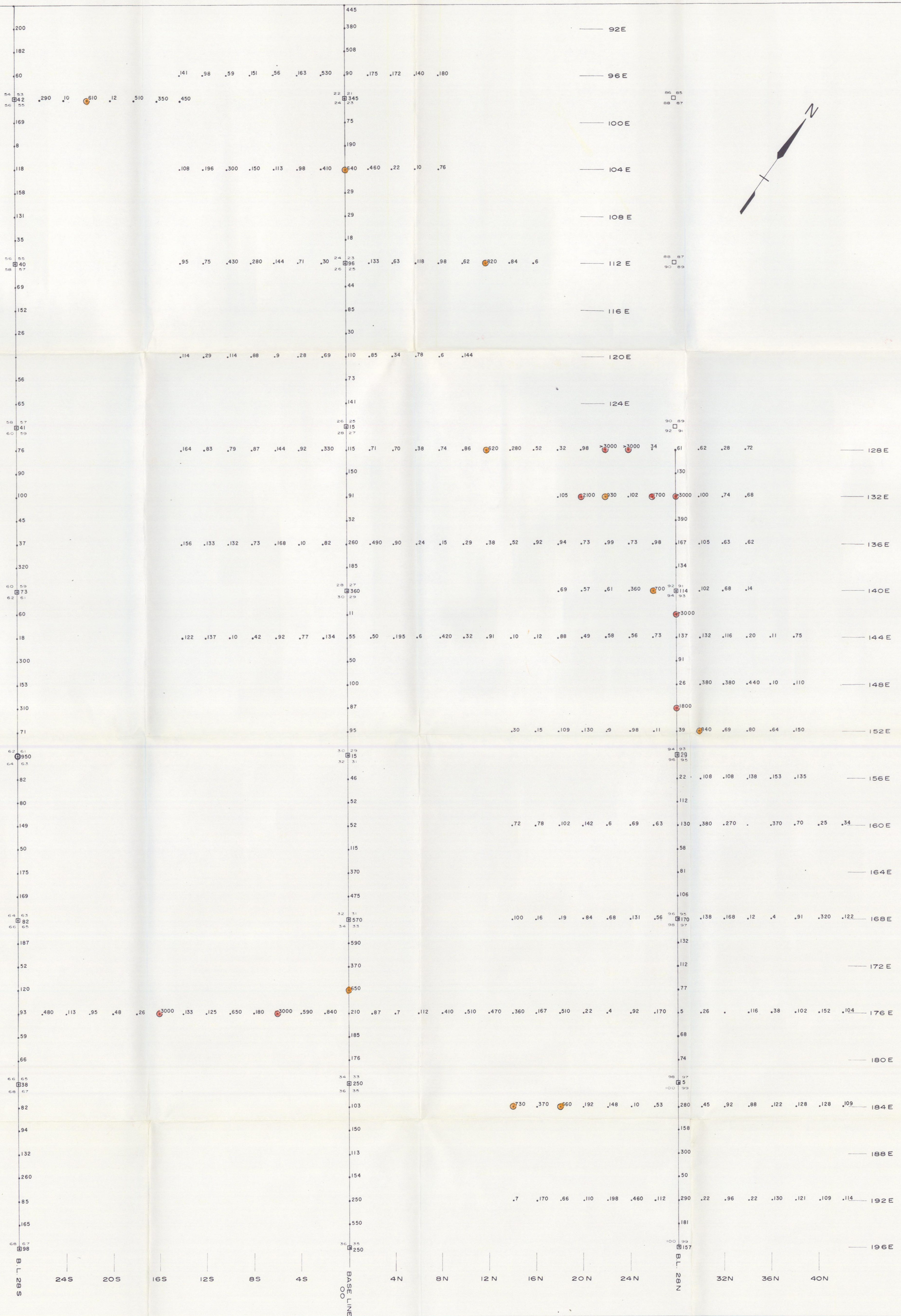
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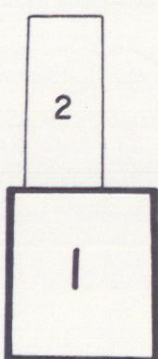
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KEY



- 600-999 P.P.M. Zinc
- 1000+ P.P.M. Zinc

SELWYN SYNDICATE
SEL CLAIMS, ROSS RIVER AREA
WATSON LAKE MINING DISTRICT, YT

GEOCHEMICAL SURVEY

ZINC IN P.P.M.

SCALE IN FEET
400 800 1200

AGILIS ENGINEERING LTD

SEPTEMBER 1973