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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 \$ 2631

M. W. [Signature]

Resident Geologist or
Resident Mining Engineer

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

[Signature]

Commissioner of Yukon Territory

Rog Claims:

Location:

The Rog claims are situated in the Sheldon Lake area, approximately 7 miles northeast of Mount Sheldon, at latitude $62^{\circ}48'$, longitude $132^{\circ}55'$. They are plotted on claim sheet 105-J-15.

General:

Rog 1 to 12 inclusive were staked on behalf of Hudson Bay Exploration and Development Company Limited to cover a geochemical anomaly located by prospectors in the 1970 field season. The company's head office is at Box 28, Toronto Dominion Center, Toronto 1, Ontario. The address of the local office is Box 4007, Whitehorse.

The following men were employed by Hudson Bay Exploration at various times between June 1st and September 15th to conduct the geochemical survey, cut lines and excavate trenches:

D. McIntosh, R. McKenzie, J. St. Godard, R. Younker and S. Drever. Their address is Box 4007, Whitehorse. All men were under the direct supervision of R.T. McIntosh.

In all 762 soil samples were collected. These were assayed by atomic absorption for copper, lead and zinc by Whitehorse Assay Office.

Trenching:

A series of seven trenches were dug in an effort to locate the source of the zinc. The total volume of the

trenches is 34.574 cubic yards. The total value claimed as assessment work is \$172.87. Location of the trenches is shown on map Y-15.

Geochemical Survey:

High values found in soil sampling in the 1970 season indicated detailed sampling was warranted. A base line designated the 0+00 base line was cut and section lines run at 200 foot intervals from 0+00 to 36+00. Samples were collected at 100 foot intervals along the section lines at depths of roughly one foot. Copper and lead values were not significant and are not plotted. Zinc values in parts per million are plotted on Map Y-16. This sampling outlined a zinc anomaly approximately 1,500 feet in length.

To confirm anomalous values, a series of check samples were taken by McIntosh and McKenzie. These were taken as deep as possibly, normally just above the permafrost. Zinc values are plotted on Map Y-15.

The SL series (Map Y-15) was taken by St. Godard and Younker using a shovel to dig to the permafrost or as deep as possible in the muskeg area.

The XSL series was taken by the above men with an aluminum rod. Samples were taken as deep as possible, (see accompanying). Results are plotted on Map Y-15.

Conclusions and Recommendations:

The original detailed sampling outlined a zinc anomaly roughly 1,500 feet long by 300 feet wide. Check sampling confirmed the presence of high zinc. Deeper sampling indicates that the anomaly proper lies along the 0+00 base line, with downslope enrichment on the surface in muskeg areas.

Further work is justified to locate if possible the source of the zinc. Two diamond drill holes have been proposed on section 26+00E.

A handwritten signature in cursive script, appearing to read 'R. T. McIntosh', is centered on the page.

R.T. McIntosh, B.Sc. F.G.A.C.

XSL - Series

	7-S	2.0'	100% vegetation	Ice
	8-S		No sample, ice at 3.0'	
	9-12-S		No samples, ice at 1.5-3.5', veg. at top ice	
26E	2-N	Surface	Sandy silt.	Base of drainage for hill.
	1-N	18"	Volcanic ash	Ice @ 18", veg to ice.
	0+00	18"	Volcanic ash	Ice at 18".
	1-S	2.5'	2" ash, 2" clay	By original sample
	1+50S	6.5'	2" grey clay	In rusty creek bed.
	2+00S	18"	20% veg. ash-rust.	above ash.
	3-S	2.0'	Dark black veg. & mud.	
	4-S	3.5'	Vol. ash & mud	Begin open swamp, rust band at surface.
	5-S	4.0'	Vol. ash, 80% veg.	
	6-S	4.5'	2" ash, 2" 50% veg.	
	7-S	4.0'	1" muskeg, 2" ash, 1" muskeg	
	8-S	3.5'	4", 80% veg.	
	9-S	4.0'	5" ash, 3" veg. & mud	
	10-S	4.5'	2" mud, 2" ash & mud.	Beside original
	11-S	4.0'	Dark grey clay	
	12-S	4.0'	1.5" clay, 1.5" ash, 2" clay, 15' from original	
24E	No samples except at 10-S, ice at 8 - 10"			
22E	0+00		No sample ice at 18"	
	1-S		No sample, ice at 18"	
	2-S	18"	Black soil	Ice, 1' from original
	3-S		No sample, ice at 12"	
	4-S		No sample, ice at 12"	
	5-S	14"	Black veg. & mud	

XSL - Series

22E	5-8	No sample, ice at 8"	
	7-8	No sample, ice at 8".	
	8-8	12" Black mud.	Creek bed with rusty layer
	9-8	14" Veg. & mud	Creek bed
	10-8	18" Grey clay	Ice.

Where no sample was taken it was assumed that the conditions were such that values for that location would be provided by the SL - series of samples.

