

HESS REGION REPORT

No. 69-9

Detailed Work in the Vicinity

of

Geochemical Anomaly #107

N.T.S. 105-N-11

Work done

July 14, 1969

by

G.R. Sanford

REPORT ON ANOMALY #107

VOLE CREEK GOSSAN

105-N-11
July 14, 1969

The Vole Creek gossan is a limonite cemented gossan about 60 ft. in diameter located approximately 22 miles west of Swan Lake and 7 miles southwest of Four Moose Lake. The gossan itself is found roughly two miles west of and on the side hill above Vole Creek. Several small lakes on Vole Creek, less than a mile north of the gossan, are possibly suitable for float-equipped aircraft.

Samples taken in the 1968 season indicated insignificant copper and lead but zinc values in five samples ranged from 100-550 ppm and a sixth sample contained 60,000 ppm zinc. On the basis of this single large value, it was decided that the gossan should be re-visited.

One day was spent at the gossan, prospecting and checking geology. A line of soil samples was taken along the side-hill above the gossan and another line passed through the base of the gossan. Three gossan samples were taken at a depth of 12-18 inches. One sample of gossan material was sent for assay.

The gossan material is fairly open and is of a bedded nature although it was too broken to obtain an attitude. Leaf, pine cone and pine needle impressions are common. There are occasional small rock fragments in the gossan. The nearest noted outcrop was several hundred feet north of the gossan. This was a grey weathering dark bedded crystalline Proterozoic limestone. Yukon Group quartzites were noted near the valley bottom and also one-half mile south of the gossan. There is a second gossan in a creek one-quarter mile west. No mineralization was encountered.

Assay and geochemical results were not available at the time of writing.

<u>Assay Tag No.</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Remarks</u>
4024	0.03	0.12	0.48	

(This portion not enclosed with report)

Respectfully submitted

G. R. Sanford

