

EXAMINATION OF THE LITTLE SALMON SHOWING

1389

A		M
	A.D.	
✓	J.L.	✓
✓	G.C.A.	✓
✓	G.E.	✓
✓	C.L.C.	✓
	M.H.F.	
	R.D.S.	

September 28, 1953.

INTRODUCTION

The Little Salmon showing was examined on September 18, 1953 accompanied by Allan Kulan, one of the stakers. The showing lies approximately 3 miles north of the small lake 7 miles east of Little Salmon lake on the Magundy River system, or approximately 8 miles north-east by east of the east end of Little Salmon Lake. The area is located in the south-west corner of the topographic map "The Pelly River Sheet" published by the Surveys and Mapping branch of the Canada Department of Mines and Technical Surveys.

From the lake, which is large enough to land small float planes, the showing is reached by a trail over a steep-sided mountain with an elevation of approximately 1500' above the lake level. Transportation of equipment to the showing will be by pack horse. The present trail is much too steep for horses, however a better although longer trail can be located around the west edge of the mountain.

The showing, which is covered by 8 claims, the Tosella, numbers 1 to 5 inclusive and the Kulan, numbers 1 to 3 inclusive, consists of one well-exposed galena bearing calcite vein and an extensive rusty magnetite-pyrrhotite skarn zone. It was examined by a Mr. Smitheringale of Conwest Exploration earlier in the year. He prepared a chain and compass map of the claims area, and this map, a copy of which is submitted with this report, was used during the examination. It apparently is accurate, however there is a great deal of magnetic attraction in the area.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Little Salmon showing consists of a large pyrrhotite-magnetite skarn deposit with scattered galena-bearing calcite veins, lenses and stringers, and a 24" to 30" wide calcite vein heavily mineralized with galena, sphalerite, chalcopryrite and pyrite. These deposits are related to a quartz-feldspar porphyry dike or sill intruding a series of limestones with some interbedded quartzites and shales.

The magnetite-pyrrhotite skarn deposit does contain some chalcopryrite but appears to have no economic importance. Both Kulan and Smitheringale report copper values up to 1%, very low cobalt, and no nickel in this mineralization. Silver up to 3 ounces per ton is reported however.

The main calcite vein is relatively narrow but contains a high percentage of galena and sphalerite with some chalcopryrite. Assays by Kulan and Smitheringale returned high lead and silver but very low gold. Assays for zinc and copper were not taken.

A working option on the property is recommended on the basis of a low down payment, which Mr. Kulan has assured can be obtained. The known lead-zinc vein should be tested by diamond drilling and the section along the quartz-feldspar porphyry intrusive, particularly along the south edge, thoroughly tested for other such veins.

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GEOLOGY

The area is underlain by a gently dipping series of limestones with interbedded quartzites and shales. The formations are very regular along strike and dip which are N85°W and 25° to the south respectively.

A large quartz-feldspar porphyry dike or sill intrudes the sediments and conforms to their strike. The dip of this formation could not be determined but it is suspected to be the same as the sediments and, therefore, to be a sill. It is composed of rounded quartz phenocrysts and rounded to angular white feldspar phenocrysts set in a fine-grained grey to pink aplitic groundmass. Toward the south contact the rock becomes a fine-grained aplite. The south contact was located within a few feet only as it is obscured by rust and mineralization. The north contact lies under low ground.

Other narrow aplite dikes were seen cutting the sediments at an angle. These may be short apophyses off the main intrusive.

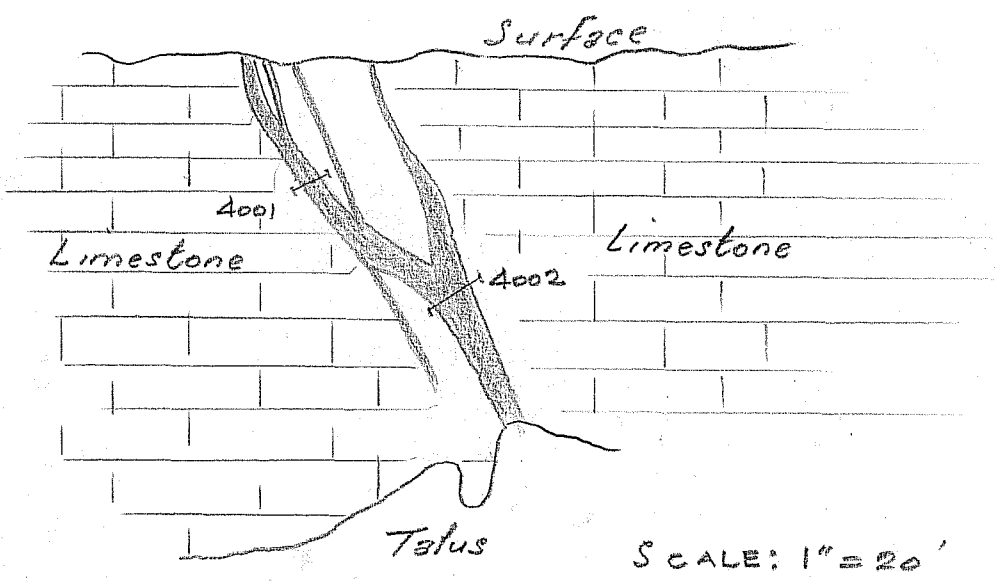
SHOWINGS

The showings are of two types - first, a large rusty pyrrhotite magnetite skarn, and second, galena-bearing calcite veins.

The skarn zone lies along the south side of the quartz-feldspar porphyry intrusive and ranges to 65 feet exposed width. This zone consists of massive magnetite and pyrrhotite in varying proportions with some pyrite, and minor amounts of chalcopyrite.

Galena-bearing calcite float is common in the talus below the skarn zone. A few narrow veins and lenses were located. These are generally narrow, less than 3 inches, although one is 13 inches wide. The mineralization is coarse massive galena with some pyrite making up approximately 40% to 50% of the volume of the vein material.

The main showing consists of a calcite vein with galena-sphalerite-chalcopyrite-pyrite mineralization exposed for a length of 45 feet along dip in a limestone cliff face. This vein, which occurs in a narrow shear, strikes N45°W and dips steeply to the south-west. It varies from 24" to 30" wide except where it bulges at the split as shown in the following sketch.



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Galena is present also in narrow 1" to 2" calcite stringers in the walls of the main vein but do not appear to be abundant enough to materially add to the width of ore grade rock. An attempt was made to trace the vein on strike to the southeast with no success due to lack of outcrops.

The vein consists of calcite and massive sulphides, the latter comprising approximately 60% of the volume of vein material. Coarsely crystalline and fine massive galena is the most common mineral. Dark resinous to black sphalerite is common in certain sections and chalcopryrite occurs in scattered coarse blebs. Some pyrite was noted also.

Five samples only were taken and have been submitted for assay.

<u>SAMPLE</u>	<u>LOCATION</u>	<u>ROCK TYPE</u>	<u>MINERALIZATION</u>	<u>ASSAYED FOR</u>	<u>Pb</u> %	<u>Zn</u> %	<u>Cu</u> %	<u>Ag</u> oz	<u>Au</u> oz
#4001	Upper part large calcite vein	galena- calcite vein	galena, sphalerite chalcopryrite, pyrite	lead, zinc, silver, copper gold	17.98	.80	.53	12.74	.01
#4002	Lower part large calcite vein	galena- calcite vein	galena, sphalerite chalcopryrite, pyrite	lead, zinc, silver, copper gold	10.85	7.73	.26	13.30	.035
#4003	Southwest corner Kulan #2	galena- calcite vein	galena	lead, silver	35.98			81.48	
#4004	150' East #1 post Kulan # 2	skarn deposit	magnetite, pyrrhotite pyrite, chalcopryrite	copper, silver			.29	Tr	
#4005	350' East #1 post Kulan # 2	skarn deposit	magnetite, pyrrhotite chalcopryrite	copper, silver gold			.15	Tr	nil