

MASTODON-HIGHLAND BELL MINES LTD.LOU CLAIM GROUP

The Lou Claim Group consisting of 132 claims is located approximately 20 miles west of Smithers (See Sheet I). A 4-wheel drive road which terminates at McDonnell Lake comes to within six miles of the showing. (See Sheet II). The topography in the area of the claims is relatively flat, attaining a maximum elevation of about 3,500 feet. Forest cover is generally light and is interspersed with numerous open swampy areas and a few small lakes. The claims are situated along the west side of Louise Lake, at the outlet of Coal Creek.

The area is underlain by a sequence of Middle Jurassic sedimentary and volcanic rocks belonging to the Hazelton Group. Some sediments of Upper Jurassic age, the Bowser Group, may also be present. These units have been intruded by a quartz-monzonite body, as inferred from two small outcrops and scattered float found in the immediate vicinity. Monzonite float has been found over an area one-half mile by one mile, indicating the presence of a stock of such dimensions, if not greater.

Minor molybdenite and bornite mineralization has been found scattered over the area underlain by the intrusive body. The mineralization occurs most commonly in fractures and as thin selvages along quartz veins. Pyrite is very common and occurs in this seam as disseminations throughout the monzonite. It is especially abundant in those areas where silicification has been the most intense.

The intrusive body has undergone extensive kaolin alteration with complete destruction of the ferromag minerals. A quartz stockwork is well developed. The quartz veins vary in width from 1/16 inch to 1/2 inch with the frequency being 6 to 18 per foot. *weathering(?)*

The soil on the topographic high formed by the stock, has been checked geochemically. Anomalous copper and molybdenum areas have been indicated. (See Sheet III). These areas were checked, April, 1969, by an I.P. survey. A very interesting anomaly was produced suggesting

a high metal content. (See the enclosed Seigel Associates Ltd. report May 6, 1969).

In June four trenches were bulldozed through the weathered over burden to bed rock. The over burden is residual weathered quartz monzonite. In much of the trenches, bedrock was not reached. Samples were taken where it was certain that the material was bed rock or in place. The assay results of these samples are plotted on Sheet IV.

The property now needs more thorough sampling by deeper bulldozing or by core drilling.