

## PRELIMINARY AIR PHOTO INTERPRETATION

## BEAVER RIVER UPTHURST

The photo interpretation has been done along lines similar to that of the Mt. Thunder and Quartz Lake areas with the object of indicating rock types and structures as a guide to prospecting for the source of some high grade silver lead float reported by Hugo Bradell near the mouth of the creek that flows into Beaver River from the south about 4 miles <sup>east</sup> from longitude 126°.

Geological Survey of Canada map 32-1353 by R. J. W. Douglas has been compiled from several seasons' mapping of oil geology, and indicates an upthrust block of Proterozoic argillites next to an E-W tear fault in this locality. Since this is the type of <sup>transverse</sup> basement deformation and upthrust that is often favorable for ore deposits, it adds weight to the justifiability of prospecting the area, and also <sup>clearly</sup> defines the limits of the favorable area.

Photo interpretation, aside from showing abundant bedding traces and attitudes and giving a visible indication of the extent of rock types and exposures, indicates a series of strong linear fractures crossing the upthrust Proterozoic block. These fractures are most pronounced in what appears to be a section of more competent rock within the upthrust block.

Although the upthrust block has been mapped as a typical foothills type

Thrust blocks, there is not enough between exposure in critical areas, and therefore the Proterozoic block could equally well be a result of essentially vertical tectonics favourable for mineral deposition.

Since glacial movement is from north to south at low elevations and apparently ENE at higher elevations, source of the reported Bradell float may be to the north or east of its discovery point, that is at the north end of the upthrust. However, the entire upthrust block to the south should be prospected. It is not very likely that the area ~~to~~ to the south has been covered very intensively in Bradell's original search for the source of the float.

All streams draining the upthrust area and its near vicinity should be silt sampled and tested for geochemical indications of mineralization.

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