



thick, are typically buff weathering in the southwest part of the map-area and in Liard Canyon but are grey weathering elsewhere. The rocks are highly incompet-

Silurian and Devonian strata (6), containing Middle Devonian fossils in part of the map-area. There, however, the sequence includes very little carbonate.

assemblage (7) are characterized by chert pebble conglomerates that locally form

probably of Mississippian age, (8), locally include bodies of ultramafic rocks (10). The distribution of volcanic and ultramafic rocks is well defined by aeromagnetic Sambo and Marten Lakes may be as much as 500 feet thick. In Middle Canyon on Frances River well bedded limestones contain interbeds of sheared limestone and polymictic conglomerate generally less than 10 feet thick. Massive and, in places, highly sheared conglomerate on the east side of Simpson Lake (9c) contains well rounded to sub-angular pebbles and cobbles of greenstone, vein quartz, quartz-

Granitic bodies in the northeast part of the map-area (12) have a fairly uniform composition. An isolated granitic plug (12a) east of Oscar Lake contains crystals of quartz, feldspar and biotite in a fine-grained, buff weathering matrix. Granitic rocks north of Tuchitua River and in Simpson Range (11) have been highly

the southwest part of the map-area. Aeromagnetic anomalies suggest that these rocks underlie a fairly extensive area along and near Little Rancheria River. An outcrop of basalt along the Ross River road north of Tuchitua River contains some

last major advances were southeasterly along Liard River, westerly from Cassiar Mountains, southerly down the upper Frances River valley and northerly and northeasterly up the valleys of Hyland and Green Rivers. Glacial lake silts underlie a

A layer of white weathering volcanic ash, about $\frac{1}{2}$ inch thick, occurs beneath the humus layer along Liard River south of the mouth of Allan Creek and

units 4 and 5 are cut by a well developed, northerly trending strain-slip cleavage

deformation during the interval between deposition of these beds and the extrusion

coarse-grained galena and sphalerite associated with a spectacular garnet-diopside-