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(f) Mt. Black Volcanics (Emb)

These occur as an essentially west-dipping elongate belt extending from the Red Hills area in the south, to east of Bulgobac in the north. Relationships with other volcanic units recognized on the aerial photographs suggest they are the youngest volcanic group within the Mt. Read Volcanics north of the Henty Fault, and that they may be time-equivalent with respect to the Burns Peak Rhyolite. The Mt. Black Volcanics are seen to overlie the Que River and Mackintosh Volcanics and also the Primrose Pyroclastics. The sequence is made up of massive quartz- and quartz-felspar keratophyres.

Between Mt. Black and Mt. Read the strike gradually swings from north-south to east-west, with a southerly dip. This is probably due to drag folding as the Volcanics approach the Henty Fault (west-block-up). However the possibility of them being on the southern flank of a volcanic centre should not be overlooked, the centre being at or near Mt. Black itself.

(g) Bulgobac Group (fbv) \*

This unit crops out as a westerly dipping, north-east-trending belt of sediments, and reworked volcanics, with minor interbedded dacitic tuffs and flows. The belt extends from north of Burns Peak to the north-eastern corner of the study area. This group appears to overlie all other formations within the Mt. Read Volcanics, and is itself disconformably overlain by the Crimson Creek Formation north-west of Burns Peak. The base of the Group, as seen along the Murchison Highway west of the Que River Mine, may be conformable with the underlying Que River Slates.

Limited mapping by previous workers has shown that the Bulgobac Group is made up of greywackes, siltstones, reworked tuffs and black shale, the material being derived from the weathering and erosion of other volcanic units. There are minor intercalations of rhyodacite, and quartz- and quartz-felspar-porphyrific lavas and related pyroclastic rocks. The proportion of purely volcanic intercalations appears to decrease to the southwest.

\* name proposed by this author