

In Flannigans area the sandstone has a calcareous matrix, outcrops friable or with limonitic crust typical of carbonate weathering No. 11450, 11489.

Gordon Limestone overlies the Owen, this contact is not exposed, the only outcrops located are in the Garfield River downstream of Flannigans junction. Wade and Solomon have mapped limestone in the Snake Spur syncline core. Black mudstone in Flannigans Creek may be weathered limestone, but is most likely Tertiary carbonaceous mud.

In the Flannigans Valley west of the creek extensive outcrops of well bedded micaceous sandstone overlie calcareous shale and sandstone, the latter are in contact with Cambrian volcaniclastics. This may be a faulted contact, but the association has been located at 378,250E 5325,400N, and 378,600E 5325,700N. In both cases, a pyritic sandstone immediately overlies the volcaniclastics. These micaceous sandstones may be:

- a) basal Owen conglomerate pers com Clive Calver Mines Department "pass upwards into pebbly Owen like sandstone on Strahan range to west." If this is correct, the Owen thickens rapidly and changes character within 500 m across the Flannigans Valley.
- b) equivalent of Crotty Quartzite overlying the Gordon Limestone. A similar sequence has been mapped by Wade and Solomon to the north of Currie River near EL 9/66 boundary.