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on 1600S, 1040W to 1100W, and 1700S, 1080W to 1140W. On a bulldozed track extending northward from 2200S, 1220W, between 2120S and 2160S, is a zone of intensely sheared argillites and sandstones. The shearing, trending east of north, has tended to mask any bedding visible in the outcrop. Some bedding is visible, and is variable, but overall has an east-west strike, dipping north. This zone is interpreted as being the nose of the plunging syncline, and the schistosity is related to the anticlinal axis about 100m to the west (Pinnacles Anticline).

At 1180S, 1000W, a rock described in thin section as an impure chert or cherty argillite (tuffaceous), can be related to a pyritic, cherty sediment on 1400S, 1080W, and then to a similar cherty unit on 1600S, 1160W. This unit is on the west limb of the Burns Peak Syncline, and stratigraphically below the argillite-siltstone unit described above. A complementary pyritic cherty unit (with traces of galena) can be traced to the west of the anticlinal axis, from 1400S, 1190W, to 1700S 1380W.

There are two major structural features in the Pinnacles area, the Owen Shear and the Pinnacles Anticline. The Owen Shear can be traced in outcrop, and from drilling, from the CP1/CP2 costean to the south, through 2800S, 1700W, striking at  $340^{\circ}$  magnetic, through Thomas' Creek (approximately 1600S, 2040W), through the Marionoak River, and presumably northwards to the Silver Falls Mine. The dip of the shear (thrust?) is  $35^{\circ}$  to  $40^{\circ}$  east, with unknown throw and direction of movement. It is suggested here that this structure is a thrust (?zone), with the eastern volcanic sequence (Primrose Pyroclastics) thrust westwards over the Rosebery Group sediments. Although probably not having any bearing on the genesis of the mineralisation in the area, it has effectively truncated the ore bearing horizons of Pinnacles at a shallow depth.

The Pinnacles Anticline has been so called because it is interpreted as passing through the Pinnacles peaks. The evidence for this anticline is not strong, consisting basically of the extrapolation across the anticline of the pyritic cherty unit mentioned previously, and indirect