

5.2. Local Geology

5.2.1. Chester Grid (EAD)

The bulk of the Chester area was mapped by D.J. Perkin in 1977, and previous exploration had been carried out by Comstaff prior to 1977.

Perkin mapped the new Hydro-Electric Commission road, north of the Pieman River, in detail in order to elucidate the stratigraphy within the Primrose Pyroclastics. On the basis of this detailed mapping and substantial petrological work, the Primrose Pyroclastics were subdivided into seven units as follows:

- Youngest Unit 7 Upper ignimbrites (vitric lapilli tuffs).
- Unit 6 Fine grained sediments (clastics and volcanoclastics) including shale and chert.
- Unit 5 Lower ignimbrites (vitric lapilli tuff) with quartz veinlets and some disseminated galena/sphalerite.
- Unit 4 Fine grained chloritic and sericitic volcanoclastics and clastics, strongly sheared and foliated.
- Unit 3 Chloritised re-worked acid tuff with shale fragments, quartz carbonate veinlets and minor disseminated galena-sphalerite.
- Unit 2 (Sheared) black shale with tuffaceous interbeds carrying blebs and transgressive veinlets of galena and sphalerite.
- Unit 1 Medium grained ash fall tuff (aquagene quartz-plagioclase crystal acid tuff) minor disseminated galena and sphalerite.
- Oldest ?

Attempts to trace these units through the grid to the north have not met with a great deal of