

## Description of specimens from St Diziers Creek, North Heemskirk

by M. J. Longman

### Hand specimens

Both specimens 65/320 and 65/321 appear to be graphitic shales, one (321) with small white crystals in the carbonaceous material, the other (320) having well defined banding. Pyrite bands and veins occur throughout both specimens.

### Thin section

320 — Mineral content:	Cordierite Chlorite Magnetite Graphite Quartz
Grain size	2.0 mm, 0.01 mm and smaller
321 — Mineral Content:	Cordierite Diopside Chlorite Quartz Magnetite Graphite
Grain size	3.0 mm, 0.01 mm and smaller

### Comments

*Sample 320:* Cordierite and diopside occur as blastic crystals with multiple twinning in a groundmass composed of banded chlorite and magnetite. Quartz is a minor constituent of the rock. Graphite is closely associated with magnetite.

*Sample 321:* Cordierite and diopside occur as blastic crystals in a groundmass of quartz, chlorite, graphite and magnetite. Banding is not obvious and quartz forms a larger proportion of the rock. Cordierite tends to develop euhedral outlines and be more free of inclusions than in 320.

Both specimens are high grade contact metamorphic rocks, the original sedimentary rock being carbonaceous siltstone or sandstone.

[1 February 1966]