

3000N	3240E - 3360E	7 samples
2900N	00 - 559	25
2800N	3260E - 3340E	5
2700N	20 - 560	28
2600N	3368E - 3480E	7
2500N	20 - 472	23
2400N	3420E - 3500E	5
2300N	20 - 500	25
2100N	20 - 590	25
2000N	3440 - 3540E	5

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In addition various rock chip samples were submitted for chemical analysis.

4. Geophysical Survey : Prior to the cutting of the additional grid lines in GAP west, the entire GAP grid was surveyed using a proton precession magnetometer. In addition an induced polarisation and resistivity survey was carried out on most of the grid lines whilst 16.1 line km of self-potential surveys were completed. In an attached report to the Interim Report on Renison East (1978), Dr. D.B. Trussell noted that the line spacing was too large to permit meaningful contouring of the ground magnetic data.

Consequently with the re-examination of GAP west the grid (both old lines and new lines) was surveyed by contract geophysicists (Geoterrex) during June 1980.

#### GEOLOGICAL MAPPING

Summary : The rocks exposed in GAP west comprise an ophiolite complex which consists of a sequence of serpentinitised ultramafics, feldspar-bearing pyroxenites, minor gabbros, and massive mafic lavas. The complex is bounded to the west and to the east by weathered and often poorly exposed sedimentary rocks. Those to the west comprise weathered light-grey to buff, fine grained sandstones, whilst to the east occurs a poorly exposed sequence of weathered breccias and partially laminated siltstones, which appear to overlie conformably, or paraconformably the mafic lavas. The ophiolite complex as a whole shows an overall facing from west to east though in detail there is a marked structural discordance between the plutonic and effusive components.

Serpentine Hill Complex : The type area for the Serpentine Hill Complex is Serpentine Hill itself on the Murchison Highway, to the west of the grid under discussion. The body of serpentinitised ultramafics, which occurs in GAP west, has been correlated with the type area and mapped as "undifferentiated serpentinites" by Rubenach (1974).

Detailed grid mapping in GAP west has demonstrated a spectrum of rock types from serpentinitised dunites, harzburgites, pyroxenites, to feldspathic pyroxenites and microgabbros. Much of the serpentine Hill Complex is dominated by a primary monomineralic or bimineralic assemblage of olivine, orthopyroxene, or olivine-orthopyroxene bearing ultramafics. The rocks vary from massive, to conspicuously layered, to highly foliated or schistose along the contacts, (e.g. GAP 2000N 3550E). Where layering