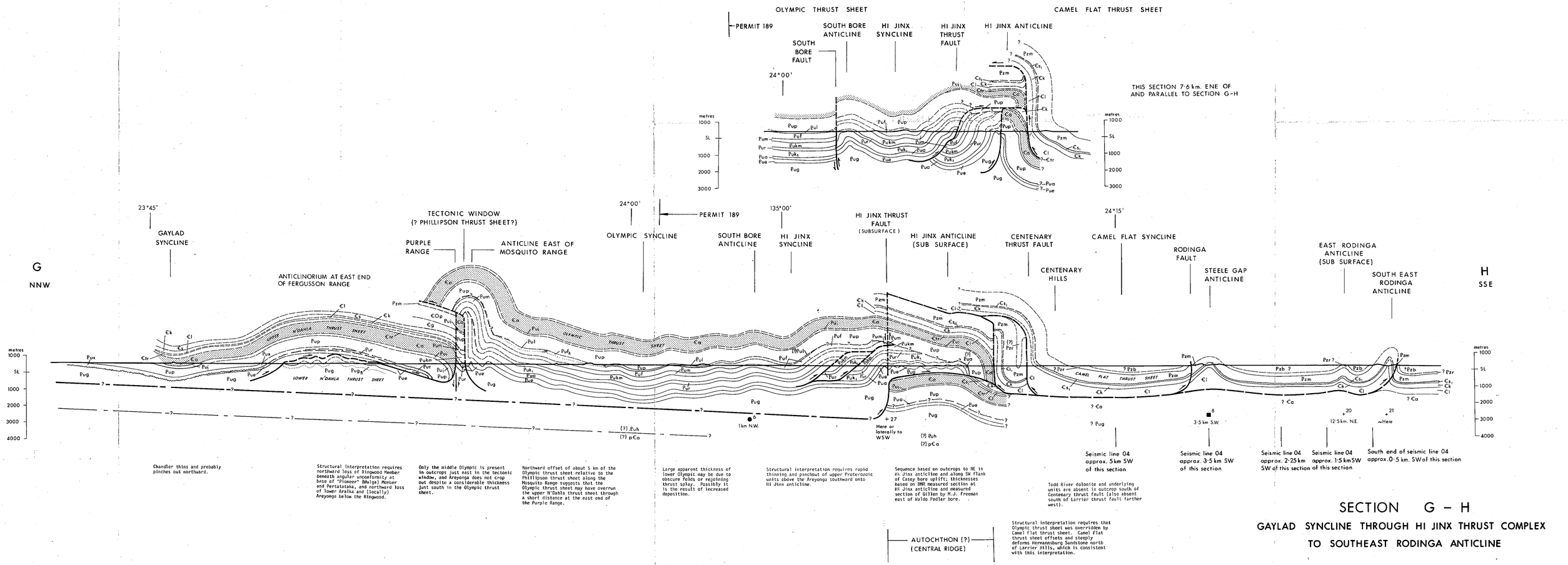

Chandler thins and probably pinches out northward.

Structural interpretation requires northward loss of Ringwood Member beneath angular unconformity at base of "Pioneer" (Mulga) Member and Pertatataka, and northward loss of lower Aralka and (locally) Areyonga below the Ringwood.

Only the middle Olympic is present in outcrops just east in the tectonic window, and Areyonga does not crop out despite a considerable thickness just south in the Olympic thrust sheet.

Northward offset of about 5 km of the Olympic thrust sheet relative to the Phillipson thrust sheet along the Mosquito Range suggests that the Olympic thrust sheet may have overrun the upper N'Dahla thrust sheet through a short distance at the east end of the Purple Range.

Large apparent thickness of lower Olympic may be due to obscure folds or rejoining thrust splay. Possibly it is the result of increased deposition.

Structural interpretation requires rapid thinning and pinchout of upper Proterozoic units above the Areyonga southward onto Hi Jinx anticline.

Sequence based on outcrops to NE in Hi Jinx anticline and along SW flank of Casey bore uplift; thicknesses based on DNR measured section at Hi Jinx anticline and measured section of Gillen by M.J. Freeman east of Waldo Pedlar bore.

Todd River dolomite and underlying units are absent in outcrop south of Centenary thrust fault (also absent south of Larrier thrust fault farther west).

Structural interpretation requires that Olympic thrust sheet was overridden by Camel Flat thrust sheet. Camel Flat thrust sheet offsets and steeply deforms Hermansburg Sandstone north of Larrier Hills, which is consistent with this interpretation.

SECTION G – H

GAYLAD SYNCLINE THROUGH HI JINX THRUST COMPLEX TO SOUTHEAST RODINGA ANTICLINE

0 1 2 3 4 5 10 km.

NORTHERN TERRITORY GEOLOGICAL SURVEY

PR84125