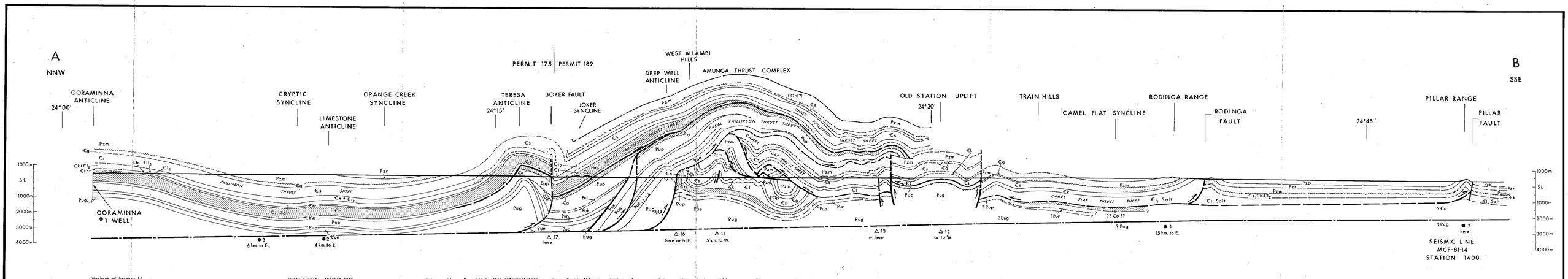

Pinchout of Pacoota S5 about 6 to 10 km west.

Units probably thicken into synclinorium here, between growth anticlines; Eu units also may be added.

Major problem: Eu units in this interpretation must thin very rapidly N-ward at Teresa anticline. If this is a growth anticline, units on south flank may thicken rapidly to the south, but major thrust must post-date thrusting on Eu/-Eup horizon, where most translation apparently took place. Note: (thick)Ca directly on (thin)Ca at nose of Teresa anticline.

Lower €s may thin so much that only the lower unit (recessive) is present and therefore not exposed here. Note: exposure ~120m thick on strike 5-1/2 km to NE.

Major problem: €a in anticline to east plunges beneath major thrusts of Phillipson sequence, on north, and is covered by €l and younger rocks on south. Does €a pinch out to south before Old Station Uplift, or is Eug (& Eue) there also thrust over €a? Is there a thick sequence of Eu units below €a (unlikely, based on sequence in E. Allambi Hills) that thin to the south?

* Overturned, folded €s overlain by Pzm on nearly flat thrust. Must derive Pzm from down-section (need thick €k, €s, €p, €Op, Pzm below in section). To match section in Old Station Uplift, need €l/Eug.
Eue below €k?
Eue overlap just to east.
?Base of lower Phillipson thrust sheet? If so, Old Station Uplift may be at S. edge of double stratigraphic thickness.

Offset ~800m, ↓ to east S. side up
Drag on upthrown block suggests it is down; this could result from salt flowage along faults from beneath horst, with upward drag & perhaps later collapse. €k transitional facies shows the correct position N-S, so probably not a graben with a piece of overlying thrust sheet (on Eug) despite drag (up on flanking blocks that were dropped down). SW end of block appears to have tilted up (risen).
Note: units thin E-ward, & thrust apparently predates cliting. --- Could Eue (above Pzm, and across N-most fault) be an ejected mass, along the fault??

Offset ~3400m, ↓ to east N. side up

SECTION A – B

OORAMINNA ANTICLINE THROUGH TERESA ANTICLINE TO WEST END OF PILLAR ANTICLINE

0 1 2 3 4 5 10 km.

NORTHERN TERRITORY GEOLOGICAL SURVEY

PR 84125