

APPENDIX 3: GAMMA-PERSEUS TRANSMISSION LINE ALTERNATIVE ROUTES 2A, 2B, 2C – GEOLOGICAL MAPS

The following 10 map sections cover three alternative deviations from Route 2 of the proposed new Gamma – Perseus 765 kV transmission line, termed Routes 2a, 2b and 2c. They have been abstracted from the following 1: 250 000 geological maps published by the Council for Geoscience, Pretoria: sheet 3024 Colesberg, sheet 2924 Koffiefontein (KF) and sheet 2824 Kimberley (KB).

Arrows on the map sections indicate north.

Sectors and rock units of high palaeontological sensitivity are indicated by red font.

KEY TO GEOLOGICAL UNITS

Late Caenozoic Superficial deposits

Tertiary / Quaternary alluvium: pale yellow with “flying bird” symbol.

Calcrete: T-Qc / Qc (dark yellow)

Sand and sandy soil, aeolian sands of the Gordonia Fm, Kalahari Group: Qs (pale buff)

Pan sediments (e.g. Maps 48-50): blue stippled areas

Karoo Dolerite Suite

Dolerite sills and dykes: Jd (pink)

Lower Beaufort Group

Adelaide Subgroup (undifferentiated): Pa (pale green, CB sheet only)

Teekloof Fm: Poortjie Mb Ptp, Hoedemaker Mb Pth

Abrahamskraal Fm: Pa (Pale green, VW & BT sheets only)

Ecca Group

Prince Albert & Whitehill Formations: Ppw (dark brown)

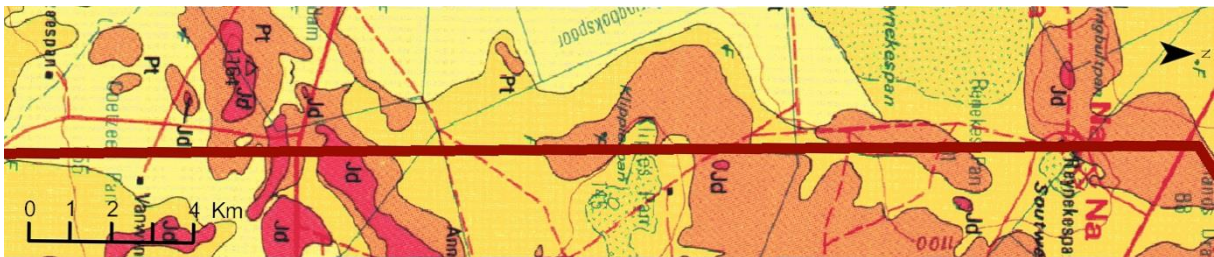
Tierberg Fm: Pt (orange-brown / grey-brown).

NB. Upper “Tierberg” succession near De Aar is actually Carnarvon facies of the Waterford Formation (Pc) (See text).

GAMMA-PERSEUS TRANSMISSION LINE: ALTERNATIVE ROUTE 2A



Routes 2 & 2a, section 27 CB - KF



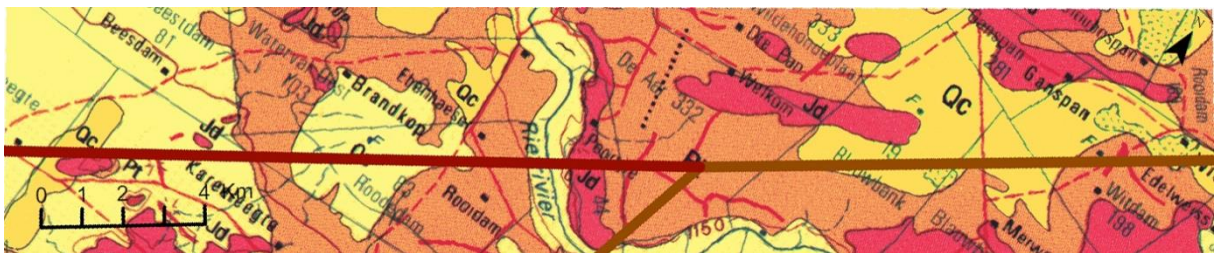
Route 2a, section 26 KF



Route 2a, section 25 KF



Route 2a, section 24 KF





Lines 2 & 2b, section 21 KF

GAMMA-PERSEUS TRANSMISSION LINE: ALTERNATIVE ROUTE 2C



Lines 2 & 2c, section 20 KF - KB