

## APPENDIX 4: GAMMA-PERSEUS TRANSMISSION LINE ROUTE 3 – GEOLOGICAL MAPS

The following 18 map sections along Route 3 (pale blue line)) of the proposed new Gamma – Perseus 765 kV transmission line have been abstracted from the following five 1: 250 000 geological maps published by the Council for Geoscience, Pretoria: sheet 3122 Victoria West (VW), sheet 3022 Britstown (BT), sheet 2922 Prieska (PK), 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 Cenozoic 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**: blue stippled areas

#### Kimberlite intrusions

Kimberlite dykes: Kk (thin black lines) e.g. section 6

#### 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).

**Waterford Formation (Carnarvon shelf facies): Pc (red)**

#### Dwyka Group

Mbizane Formation: C-Pd (pale grey / grey with red hatching = subsurface occurrences)

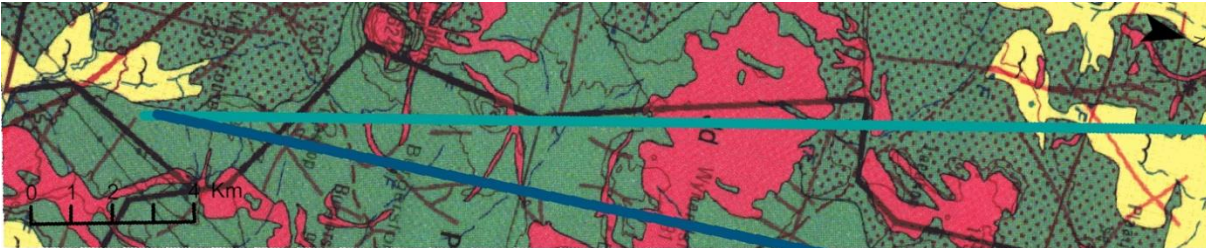
## Ventersdorp Supergroup (including Sodium Group)

Allanridge Fm: Ra (dark grey)

Bothaville Fm: Rb (medium grey) e.g. section 9

Makwassie Fm: Rm (purple) e.g. section 13

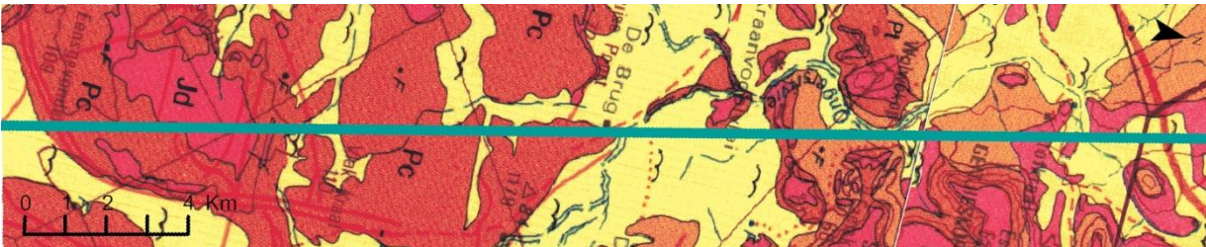
'Tcuip Formation (= Kameeldoorns Fm): Rt (pink) e.g. section 8.



Lines 3 & 2, section 1 VW



Line 3, section 2 VW

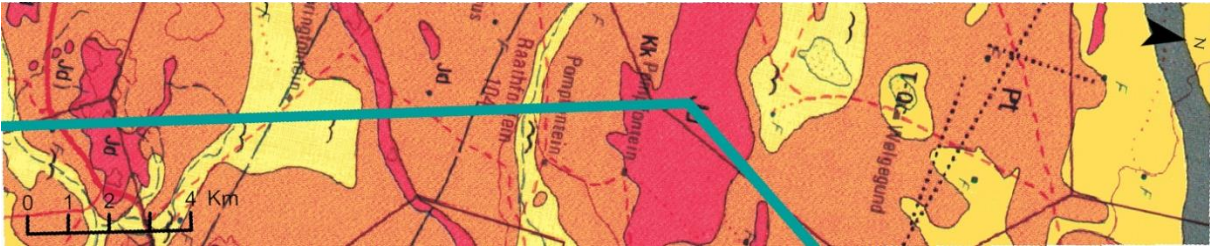


Line 3, section 3 VW - BT

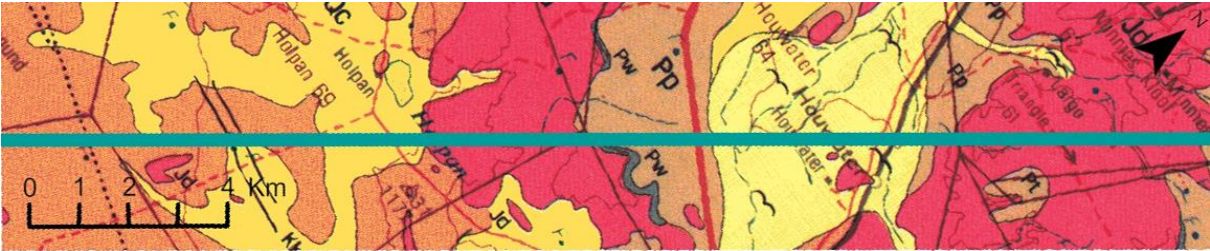


Line 3, section 4 BT





Line 3, section 5 BT



Line 3, section 6 BT



Line 3, section 7 BT



Line 3, section 8 BT - PK



Line 3, section 9 PK





Line 3, section 10 PK



Line 3, section 11 PK - KF



Line 3, section 12 KF



Line 3, section 13 KF

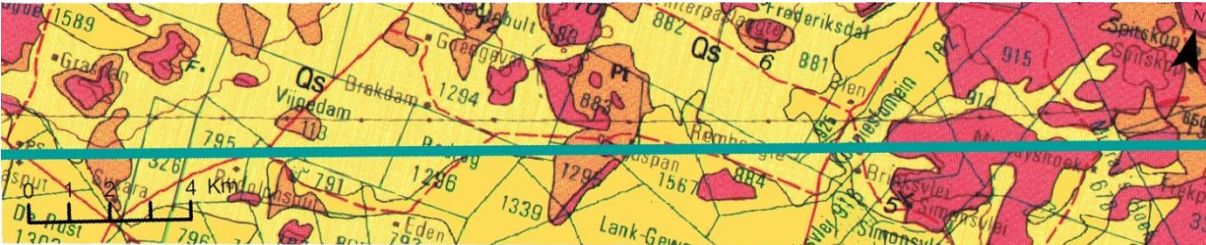


Line 3, section 14 KB





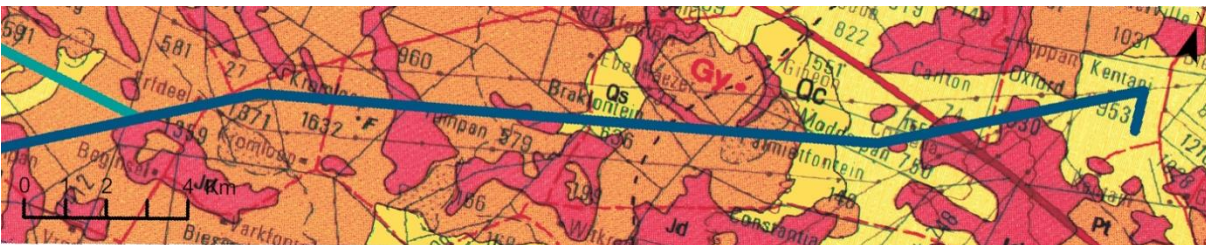
Line 3, section 15 KB



Line 3, section 16 KB



Lines 3 & 2, section 17 KB



Lines 3 & 2, section 18 KB