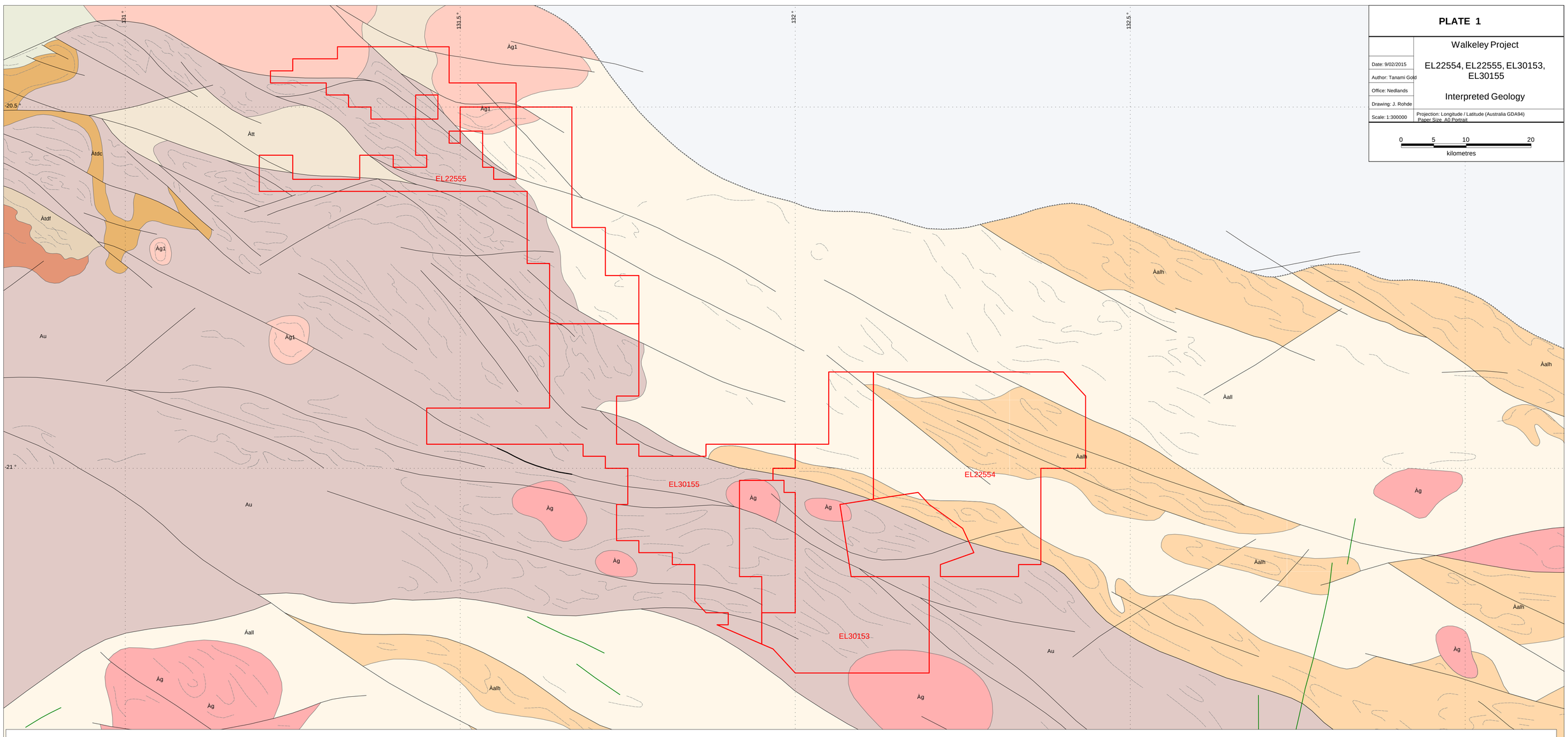

TANAMI REGION

- Phanerozoic
  - Álá - Antrim Plateau Basalts *(Cambrian)*
  - Sedimentary Basin Sequences (Cover) — Birrindudu Group
    - Àd - BIRRINDUDU GROUP (undiff) *(1640 - 1735 Ma)*
    - Àdg - Gardiner Sandstone
- Meso-Proterozoic
- Palaeo-Proterozoic
  - Mid-Upper — Tanami Region Sedimentary Basin Sequences
    - Àlg - Pargee Sandstone conglomerate, sandstone, siltstone *(1758 - 1770 Ma)*
    - Àw - WARE GROUP (relationships uncertain)
      - Àwn - Nanny Goat Volcanics - ryholite volcanics, basalt ,sandstone
      - Àww - Mount Winnecke Formation - rhyolite, dacite, porphyry, volcanics, basalt, sandstone
      - Àwc - Century Formation
      - Àwl - Wilson Formation
    - Àc - Mt Charles Formation sandstone, siltstone, basalt - (position uncertain) *(Tanami Mine Succession)*
    - *1830 Ma*
  - Lower — Tanami Region Sedimentary Basin Sequences
    - Àt - TANAMI GROUP (undiff)
    - Àtk - Killi Killi Formation (undiff) *(<1840 Ma)*
      - sandstone, greywacke, siltstone (turbidite sequences) chert members
      - Àtks - siltstone dominated beds
      - Àtkg - interbedded greywacke dominant and siltstone
      - Àtkc - interbedded coarse sandstone and greywacke
    - Àtt - Dead Bullock Formation (undiff) *(1836 ± 6Ma)*
      - Àtdc - Upper Dead Bullock Formation (Callie Member) - siltstone, Fe-shale, chert
      - Àtdf - Lower Dead Bullock Formation (Ferdies Member) - Fe-sandstone, siltstone
      - Àtdl - interbedded greywacke & siltstone - greywacke dominant (low mag)
      - Àtdh - interbedded greywacke & siltstone - abundant intercalated mafics (high mag)
    - Fault
    - Stubbins Formation *(1864 ± 3Ma)*
      - Àtsb - Upper Stubbins Formation (Bald Hill Sequence) siltstone, basalt & numerous dolerite sills
      - Àtsl - Lower Stubbins Formation
    - Contact unkn. *1880Ma*
- Archean
  - Au - Archaean Basement (undiff)
  - Arb - Billabong Complex (2570Ma)
  - felsic & mafic gneiss, granite, migmatite & amphibolite

NORTHERN / CENTRAL ARUNTA

- Pzw - Wiso Basin
- Pzn - Ngalia Basin
- Arunta Region Sedimentary Basin Sequences
  - Àan - Nicker Beds quartzite, schist, meta-siltstone, felsic volcanics & volcaniclastics *(~1770Ma)*
  - Àap - Patmungala Beds sandstone, siltstone, BIF felsic volcaniclastics *(~1800Ma)*
  - Àò - Reynolds Range Group
    - Àra - metacarbonate rocks
    - Àar - siltstone, sandstone, conglomerate, basalt pelite schist, calc-rocks & quartzite
  - Àal - Lander Rock Beds (undiff)
    - Àall - Low mag/low metamorphic grade greenschist facies: meta pelite & quartzite dolerite sills
    - Àalh - High mag/high metamorphic grade amphibolite-granulite facies: quartzite, schist, gniess & granofels
- Au - Archaean Basement (undiff) felsic & mafic gneiss, granite, migmatite & amphibolite

SOUTHERN ARUNTA

- Pza - Amadeus Basin
- *Alochthonous Metamorphic Terranes*
  - Iw - Iwupataka Metamorphics Complex³ *1620 - 1600Ma*
  - Ya - Yaya Metamorphics Complex³ *1680 - 1640Ma*

EASTERN ARUNTA

- Àln - Ledan Schist siltstone, sandstone, pelite, schist, chyolite, quartz, porphry, basalt

STRANGWAYS / HARTS RANGE REGION

- Tsw - Waite Formation
- Ár - Greenschist facies retrograde shear zones within Palaeoproterozoic basement
- *Alice Springs Orogeny*
- Pzg - Georgina Basin
- *~900 - 800 Ma*
- Pza - Amadeus Basin
- Strangways Metamorphic Complex
  - Ir - Irindina Metamorphics³ *(650 - 500Ma*
  - Àsh - Harts Range Orogenic Belt² *Alice Springs Orogeny)*
  - Àsf - Florence Detachment Zone²
  - Wi - Wigley Metamorphics³ *>1700Ma*
  - Àsa - Arltunga Gneiss Complex²
  - Àso - Oonagalabi Gniess Complex²
  - Ca - Cadney Metamorphics³ *>1780Ma*
  - Àsc Cadney Metamorphics²
  - Àse - Enita Gneiss Complex²
  - Na - Narwietooma Metamorphics³ *>1870Ma*
  - Àsg - Garden Metamorphics²

¹ NTGS subdivision for Tanami Region
² Dr Puquan Ding subdivision
³ NTGS subdivision for Strangways & Southern Arunta

IGNEOUS INTRUSIONS

Felsic		Mafic	
Àg3 - Neoproterozoic granitoids		Àmm -Mordor Alkaline Complex	
Àg2 - Mesoproterozoic granitoids		Àma - Andrew Young Hills Mafic Intrusive Complex	*1640 - 1600Ma*

- Àg - Undifferentiated granitoids, probably Palaeproterozoic
- Àg1 - Palaeproterozoic granitoid intrusions 1845 - 1790Ma Tanami Region

LITHOLOGICAL KEY

- Quartz Veins (P-VNqt)
- Felsic volcanic, volcaniclastic (P-FU)
- Granite - low magnetic / mod-high magnetic (Pgn/Pgm)
- Coarse grained felsic / intermediate intrusive
- Dolerite (P-OD)
- Gabbro (P-OG)
- BIF (Ferruginous thinly bedded to laminated mudstone , Ptd)
- Carbonaceous mudstone/schist (Possible Bald Hill Member; Ptk-SMcb)
- Gneiss - undifferentiated ortho+/-paragneiss (P-MG)
- Mafic volcanics (P-BV)
- Amphibolite (P-MA)

- Unconformity
- Contacts
- Dolerite Dykes
- Trend lines and magnetic fabric
- Accurate Faults
- Approximate Faults
- Inferred Faults
- Minor Thrust
- Major Thrust