ELKEDRA DIAMONDS NL

EL'S 22540 BUNDEY RIVER, 22528 MOUNT ULTIM, 22537 DULCIE

SF 53-11 HUCKITTA NT

PHOTOGEOLOGICAL INTERPRETATION OF 1:50,000 COLOUR AIR PHOTOS AND LANDSAT

SHEET 1 OF 2, MAP 2 OF 2: GEOLOGY

1:50,000

Datum: AGD 66, UTM Projection Zone 53

EXPLANATION OF PHOTOGEOLOGICAL UNITS AND SYMBOLS

QUATERNARY

- Qp — Pale tones; clay-rich sediments in playas and clay pans
- Qa — Alluvium and sand in active and inactive drainage channels
- Qap — Alluvium and floodplain material in broad, distributed alluvial fans and footslopes
- Qpa — Pale tones; sediments in alluvial flood plains
- Qr — Red, ferruginous soil and sand
- Qcg — Grey, clay soil in flood out areas
- Qs — Mid-brown sand and sandy soil; dunes simply mixed
- Qa — Aeolian sand with low, stabilised, partly eroded longitudinal dunes
- Qaa — Alluvial sediments in interdune depressions
- Qd — Proximal and distal colluvium and pediments

CENOZOIC

- Ccl — Laterite, mottled or ferruginised bedrock
- Ccp — Pale tones; deposition regolith, moderately weathered with deeply weathered Precambrian rocks
- Cdu — Undivided residual and transported regolith, mostly associated with deeply weathered Precambrian rocks; Cps – regolith

MIOCENE TO PLIOCENE

- Cmu — Cheilocerinic limestone; grey, rare, sandy mudstone (Waite Formation equivalents)

unconformity

TRIASSIC TO CRETACEOUS

- Mr — Moranga Sandstone: Quartz arenite to quartz-wacke; kaolinitic, poorly bedded, white

unconformity

LATE DEVONIAN

- Dudu — Upper Dulcie Sandstone: Quartz arenite, fine- to medium-grained, rare conglomerate, thick bedded, SiO2-rich; ±5 photogenic units interpreted from breakaways in Middle Proterozoic, p-pale tones; constant, consistent unit

LATE DEVONIAN

- Dudl — Lower Dulcie Sandstone: Quartz arenite, fine- to medium-grained, thin to medium bedded, clay cemented; 7 photogenic units interpreted from breakaways in Middle Proterozoic, p-pale tones; persistent unit; f-non-resh unit

unconformity

CAMBRO-ORDOVICIAN

- Ct — Tomkinson Beds: Quartz sandstone; quartz arenaceous limestone and dolostone-glauconitic, fossiliferous and bioturbated, thin to thick bedded, grey, stone fence, yellow to brown weathering, much complex cross beds, folding; 6 photogenic units interpreted, f-non resh unit; p-pale toned unit

LATE CAMBRIAN

- Ccwp — Antrim Group Formation: Dolomite and limestone, marble to grainstone, oolitic, stromatolitic calcarenite, minor silt or quartz arenite interbeds, thin to thick bedded, grey, pink and yellow; 3 photogenic units, lithology mixed
- Ccwd — Cornish Sandstone Member (Antrim Group Formation): Quartz arenite, rare siltstone, thin bedded, mottle pseudomorphs, abundant ripple & mottles; known as basal unit to Antrim Group Fm.

unconformity

PROTEROZOIC

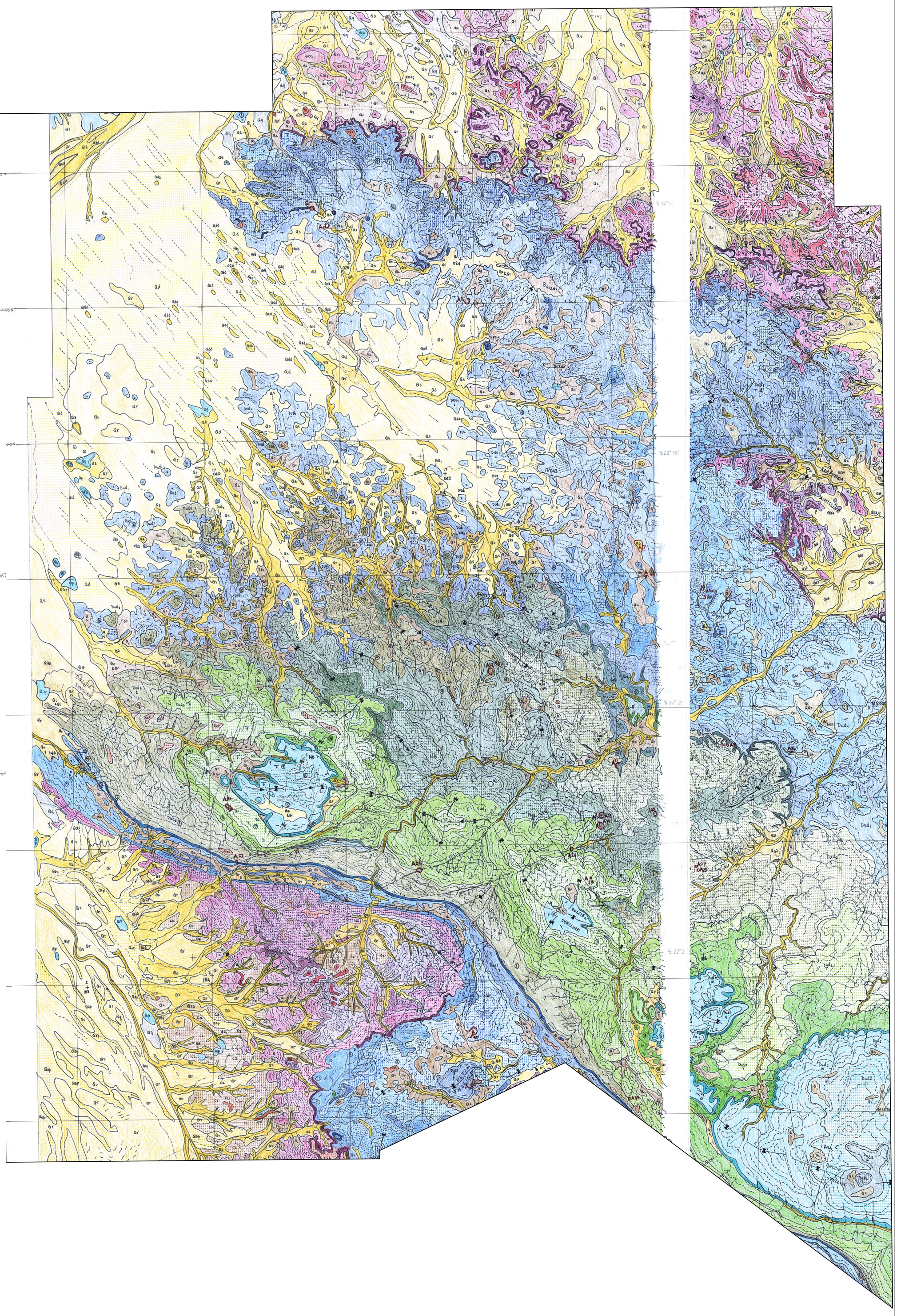
- Ccw — Elkedra Formation: Siltstone, sandstone, dolomite; thin-laminated, laminated to thin bedded, changing to red
- Ccd — Grant Dolly Formation: Quartz arenite to litharenite, fine-grained, black, grey
- Ccu — Undivided Sedimentary rocks

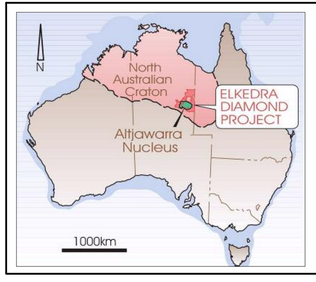
unconformity

EARLY PROTEROZOIC

- Ccb — Undivided Arunta Terrain granitic rocks

- Geological contact
- Trend of bedding/foliation
- Trend of total dunes, drainage channels, structures strong lines
- Lineaments: faults, fractures; with interpreted sense of movement
- Trend of jointing in sandstone outcrops
- Axis of fold; Chevron; anticlinal, synclinal
- Strike and dip of bedding; dip amounts: <25°, >25°, >45°, >80°
- Photogeomorphic personality, with number referenced in schedule on Map 1, Sheet 1
- Creek; Broken lines denote intermittent or individual channels
- Unsealed road, vehicle track; Fence line
- Bore, tank, well
- Airstrip
- Air photo centers with run and frame number





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ELKEDRA DIAMONDS NL

ABN 42 097 334 225

Date:9/6/2004	Plan 1: Elkedra Diamond Project EL 22528 Mt Ultim Aerial Photography Interpreted Geology
Author: JL	
Office: West Perth	
Drawing: 0135_Plan1	
Scale: 1:50000	Projection: AMG Zone 53 (AGD 66)

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kilometres