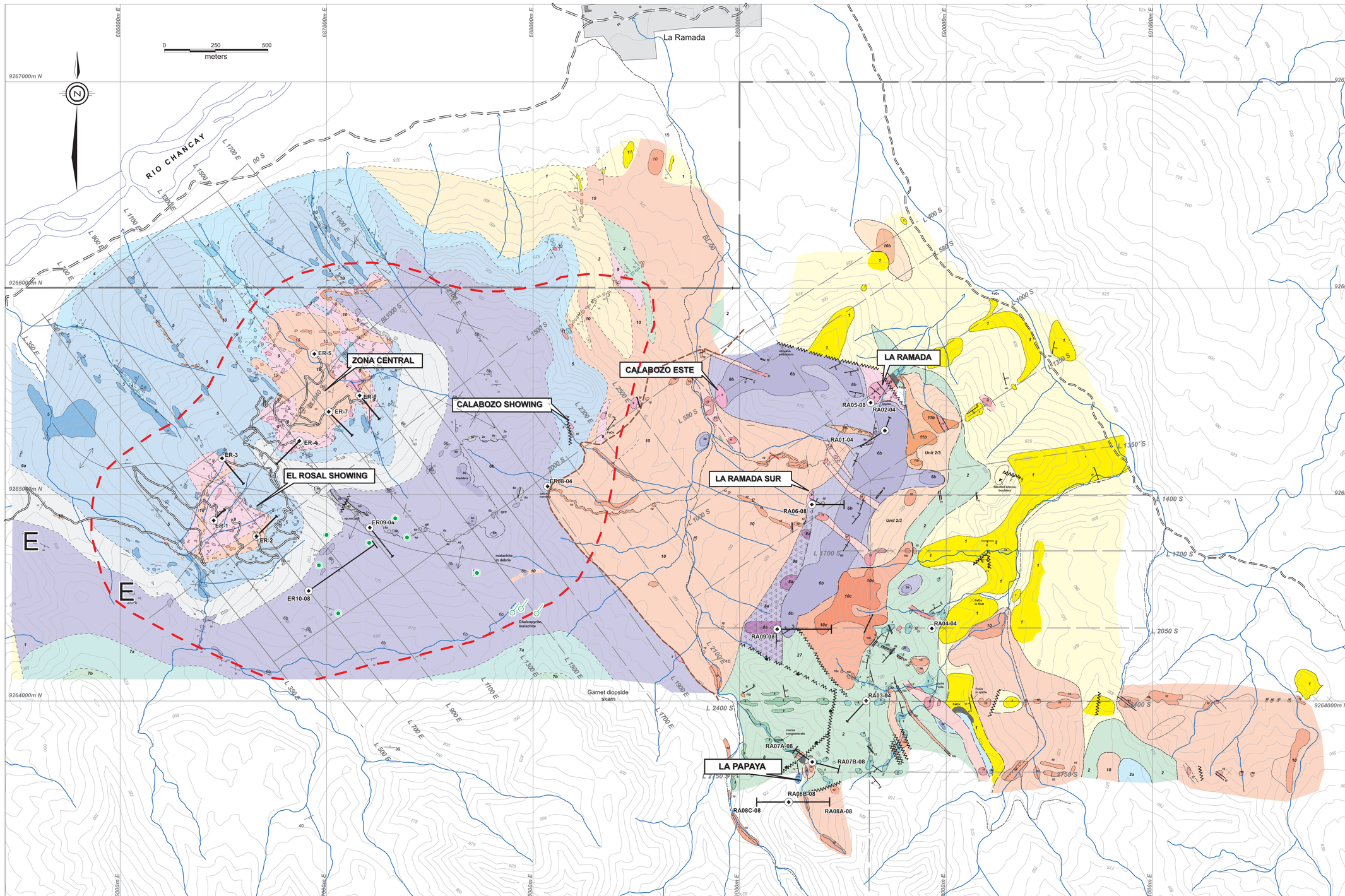

LEGEND

GEOLOGICAL UNITS

INTRUSIVE ROCKS

- **12** — Diorite: dark green, rare dikes
- **11** — Quartz-feldspar porphyry: clear quartz phenocrysts
- **11b** — 11b - quartz-phyric 'felsite', white, rare flow-banded texture
- **10** — Quartz diorite, "Tonalite": includes leucocratic quartz porphyry
  10a: fine grained, dark green, hornblende diorite
  10b: leucocratic, medium grained hornblende and feldspar-phyric diorite, anastomosing dikes of 10b occur in 10a, xenoliths of 10a occur in 10b
- **10c** — 10c: medium to dark green, hornblende-feldspar porphyry, includes dark green, fine-grained carbonate altered dykes

ALTERATION

- **9** — Skarn, calc-silicate altered carbonates

STRATIFIED ROCKS

EOCENE (MID TERTIARY)

Lower Calipuy Volcanics (Llama Formation)

- **8** — Lithic Tuff, conglomerate
- **8a** — 8a: Diatreme Breccia: lithic and intrusive fragments, fine-grained to cobble-sized rounded fragments

CRETACEOUS

Pulluicana, Quillquinan and Cajamarca formations

- **7a 7b** — 7a: Pulluicana/Quillquinan formations: limestone, mudstone
  7b: Cajamarca Formation: limestone

Pariatambo Formation

- **6 6a** — Cherty siltstone, tuff, limestone
  6a: Cherty, siliceous siltstone
- **6b** — 6b: Massive limestone with chert nodules and bands, possibly tuffaceous
- **5** — Limestone with chert in rhythmic well layered units. Locally chert occurs in lenses and nodules. Tuffaceous component in chert beds is indicated
- **4** — Tuff and limestone

Inca and Chulec Formations

- **3** — Chert, cherty siltstone
- **2** — Calcareous siltstone and limestone
- **2a** — Limestone

Goyllarisquizga Group

- **1** — Quartzite, 1a: minor black siltstone

MAP SYMBOLS

- outcrop, sub-outcrop
- outcrop: too small to be mapped
- geological boundary: defined, approximate, interpreted
- fault: defined, approximate, interpreted
- fault: displacement indicated
- bedding: vertical, inclined
- Dyke / vein: vertical, inclined
- joints: vertical, inclined
- diamond drill hole
- road or major trail
- drill site access trail
- Qtz-epidote-chalcopyrite veins
- Qtz-epidote-chalcopyrite float
- E — Mine working
- Mapping boundary (Rhys/Pantelev Schmidt)
- EL Rosal Target

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EL ROSAL PROPERTY

LA RAMADA GRID, 2004 GEOLOGY

Date: Nov 19 , 2004	Scale: 1:10,000	Figure: 1
Projection: PSAD56-17S	State/Province: Peru	
Author: Uwe Schmidt, P. Geo	File: TerraCAD/RosalBase5k	