

## LEGEND FOR COLMENTAS PROJECT

### ROCK TYPES

**Note:** All rocks are metamorphosed unless indicated otherwise in the log  
Rock types shown on logs are based on genetic equivalents of metamorphic rocks

<u>Sedimentary</u>			
<b>40</b>	Soil	<b>11</b>	Manganiferous shales (purple)
<b>41</b>	Antropic	<b>12</b>	Siltstones
<b>42</b>	Colluvial	<b>13</b>	Chert
<b>35</b>	Gossan	<b>14</b>	Sandstones/Quartzites
<b>10</b>	Shales unclassified	<b>15</b>	Greywackes
<b>10L</b>	Laminated Shales	<b>16</b>	Conglomerates
<b>10B</b>	Banded Shales	<b>17</b>	Carbonates (Dolomites)
<b>10SH</b>	Sheared Shales	<b>18</b>	Fe Oxides
<b>10GB</b>	Graphitic Banded Shales	<b>19</b>	Slump Breccias
<b>10GL</b>	Graphitic Laminated Shales		
<u>Volcanics</u>			
<b>2</b>	Felsic Volcanic (Rhyolite)	<b>3bc</b>	Intermediate Volc. Breccia with Chert
<b>3</b>	Intermediate Volcanic (Dacite, Andesite)	<b>3a</b>	Intermediate Amygdaloidal volcanic
<b>3r</b>	Intermediate Volcanic Regular	<b>3h</b>	Int. Vol. Hydrothermal alteration.
<b>3b</b>	Intermediate Volcanic Breccia	<b>3mx</b>	Intermediate Volcanic Mixed.
<b>3p</b>	Intermediate Volcanic Porphyritic	<b>4</b>	Mafic Volcanic (Basalt)
<b>3c</b>	Intermediate Volcanic with Chert	<b>5</b>	Massive Sulphides
<u>Intrusive</u>			
<b>FI</b>	Felsic Intrusives (Granites)	<b>UM</b>	Ultramafic Rock
<b>MF</b>	Mafic Intrusive (undefined)	<b>PO</b>	Porphyry (document mineralogy)
<b>IN</b>	Intermediate Intrusive	<b>PG</b>	Pegmatite
<b>DO</b>	Dolerite (Gabbro)	<b>DI</b>	Diorite
<u>Miscellaneous Units</u>			
<b>SWK</b>	Stockwork	<b>FZ</b>	Fault Zone
<b>VN</b>	Vein	<b>MYL</b>	Mylonite
<b>QVN</b>	Quartz Vein	<b>MYX</b>	Mylonitic Brecciae
<b>CBV</b>	Carbonate Vein	<b>BXZ</b>	Breccia Zone
<b>NS\$</b>	Near Solid Sulphides	<b>HBX</b>	Hydrothermal Breccia
<b>DS\$</b>	Disseminated Sulphides	<b>ATZ</b>	Alteration Zone
<b>ST\$</b>	Stringer Sulphides	<b>UNK</b>	Unknown (i.e. altered beyond recognition)
<b>WM\$</b>	Well Mineralized Zone	<b>LC</b>	Lost Core
<b>SHR</b>	Shear Zone	<b>GC</b>	Ground Core
<b>FRZ</b>	Fracture Zone	<b>\$VN</b>	Sulphide Vein

**NB:** Other rock types can be added if they are significantly different to those above.

### MODIFIERS

<u>Volcaniclastic Textures</u>			
<b>am</b>	Amygdaloidal	<b>tfl</b>	Lapilli Tuff
<b>abx</b>	Autobrecciated	<b>tuf</b>	Tuff
<b>fl</b>	flow	<b>vbx</b>	Volcanic Breccia
<b>fr</b>	fragmental	<b>atf</b>	Ash Tuf
<b>pc</b>	Pyroclastic	<b>xn</b>	Xenolithic
<b>bd</b>	Banded	<b>gh</b>	Ghostly Breccia
<b>pl</b>	pillowed	<b>sx</b>	spinifex
<b>p</b>	Porphyritic	<b>qe</b>	quartz eye's
<b>tbx</b>	Tuff Breccia (Volcanic Breccia)	<b>6</b>	Felsic Xenolith
		<b>7</b>	Intermediate Xenolith
		<b>8</b>	Basic Xenolith

<b>Sedimentary Textures</b>			
<b>lm</b>	Laminated	<b>pb</b>	Pebble
<b>rb</b>	rhythmic bedding	<b>cb</b>	Cobble
<b>cl</b>	cross laminated	<b>bd</b>	Banded
<b>tb</b>	turbidite	<b>cc</b>	Calcareous
<b>gb</b>	graded bedding	<b>gh</b>	graphitic
<b>shr</b>	sheared	<b>fl</b>	fossiliferous
<b>grp</b>	graphitic	<b>big</b>	Silt Bands >5 cm wide
<b>nrm</b>	Silt bands <5 cm wide		

<b>Metamorphic Textures</b>			
<b>gns</b>	gneissic	<b>sch</b>	schistose
<b>phl</b>	phyllitic	<b>hf</b>	hornfel
<b>pb</b>	porphyroblastic		

<b>Weathering</b>			
<b>lcp</b>	leached cap (oxide crust)	<b>trn</b>	transitional (oxide - reduced)
<b>lim</b>	limonite (oxide clays)	<b>sap</b>	saprolite
<b>sup</b>	supergene zone		

<b>General Textures</b>			
<b>vfg</b>	Very fine-grained	<b>ml</b>	mottled
<b>fg</b>	Fine-grained	<b>bx</b>	breccia
<b>mg</b>	Medium-grained	<b>sg</b>	sugary
<b>cg</b>	Coarse-grained	<b>gr</b>	granular
<b>ht</b>	Heterolithic	<b>eu</b>	euedral
<b>bu</b>	Boudinaged	<b>vg</b>	Vuggy
<b>mn</b>	Monolithic	<b>swk</b>	stockwork
<b>mx</b>	Massive		

<b>COLOUR</b>					
<b>bl</b>	black	<b>grl</b>	light green	<b>cr</b>	cream
<b>br</b>	brown	<b>grd</b>	dark green	<b>tn</b>	tan
<b>brl</b>	light brown	<b>or</b>	orange	<b>tr</b>	translucent
<b>bg</b>	blue grey	<b>pk</b>	pink	<b>wt</b>	white
<b>gd</b>	dark grey	<b>ru</b>	rusty	<b>yl</b>	yellow
<b>gl</b>	light grey	<b>rd</b>	red	<b>bs</b>	brass
<b>gr</b>	green				

<b>MINERAL INTENSITY QUALIFIER'S</b>	
WEAK	<b>1</b>
MODERATE	<b>2</b>
STRONG	<b>3</b>

<b>ALTERATION MINERALS</b>			
<b>cl</b>	Chlorite	<b>sil</b>	Silica
<b>ser</b>	Sericite	<b>feh</b>	Iron Oxides (Hematite)
<b>cb</b>	Carbonate (Ankerite, siderite)	<b>fem</b>	Iron Oxides (Magnetite)

<b>OTHER MINERALS</b>			
<b>act</b>	Actinolite	<b>he</b>	Hematite
<b>ab</b>	Albite	<b>il</b>	Illite
<b>ap</b>	Apatite	<b>jr</b>	jarosite
<b>amp</b>	Amphibole	<b>jp</b>	Jasper
<b>an</b>	Anthophyllite	<b>ka</b>	Kaolinite
<b>bi</b>	Biotite	<b>kpr</b>	K-spar
<b>co</b>	Corderite	<b>li</b>	Limonite
<b>cy</b>	Clay	<b>mag</b>	Magnetite
<b>dc</b>	Dickite	<b>mv</b>	Muscovite
<b>dl</b>	Dolomite	<b>pf</b>	Plagioclase
<b>ep</b>	Epidote	<b>pp</b>	Pyrophyllite
<b>fu</b>	Fuchsite (green mica)	<b>px</b>	Pyroxene
<b>fx</b>	Feldspar	<b>qz</b>	Quartz

<b>ECONOMIC MINERALS</b>	
<b>as</b>	Arsenopyrite
<b>az</b>	azurite
<b>bo</b>	Bornite
<b>ca</b>	Chalcocite
<b>cp</b>	Chalcopyrite
<b>cv</b>	covellite
<b>gl</b>	Galena
<b>mc</b>	Malachite (Cu oxide)
<b>mo</b>	Molybdenite
<b>pt</b>	pentlandite
<b>py</b>	Pyrite
<b>po</b>	Pyrrhotite

<b>gt</b>	Garnet	<b>slm</b>	Sillimanite
<b>go</b>	Goethite	<b>st</b>	Staurolite
<b>gph</b>	Graphite	<b>tc</b>	Talc
<b>gy</b>	Gypsum	<b>to</b>	Tourmaline
<b>hb</b>	Hornblende	<b>spt</b>	Serpentine

<b>sb</b>	Stibnite
<b>sp</b>	Sphalerite
<b>VG</b>	Gold

### SULPHIDE TEXTURES

<b>ms</b>	massive	<b>ma</b>	matrix	<b>fg</b>	fine grained
<b>do</b>	disseminated	<b>in</b>	infill	<b>eu</b>	euhedral
<b>sr</b>	stringer	<b>pb</b>	porphyroblastic	<b>wb</b>	web
<b>bl</b>	blebby	<b>nm</b>	near massive	<b>rp</b>	replacement
<b>la</b>	laminated	<b>bd</b>	banded	<b>nl</b>	needle
<b>gr</b>	granular	<b>wsp</b>	wispy		

### STRUCTURE

<b>vn</b>	Vein	<b>S0</b>	Bedding
<b>vl</b>	Veinlet	<b>gc</b>	Geological Contact
<b>sr</b>	Stringer	<b>S1</b>	Foliation, schistosity
<b>sz</b>	Stringer Zone	<b>S2 etc</b>	Foliation, schistosity
<b>sw</b>	Stockwork	<b>fd</b>	Fold
<b>ft</b>	Fault	<b>fa</b>	Fold Axis
<b>fr</b>	Fracture	<b>sh</b>	Shear Zone
<b>fl</b>	Volcanic Flow	<b>ss</b>	Slickensides
<b>ln</b>	Lineation	<b>fz</b>	fault zone
<b>jt</b>	Joint	<b>fg</b>	fault gouge
<b>frz</b>	Fracture zone		

### Vein Types

<b>vn</b>	Vein
<b>vs</b>	Vein Set
<b>dv</b>	Discontinuous
<b>bv</b>	Boudinaged
<b>sv</b>	Sinuuous
<b>sw</b>	Stockwork
<b>bx</b>	Breccia
<b>lt</b>	lenticular
<b>cc</b>	cross-cutting
<b>sb</b>	stratibound
<b>sf</b>	stratiform
<b>irr</b>	irregular
<b>Flm</b>	Flamboid
<b>fd</b>	folded
<b>vg</b>	vuggy