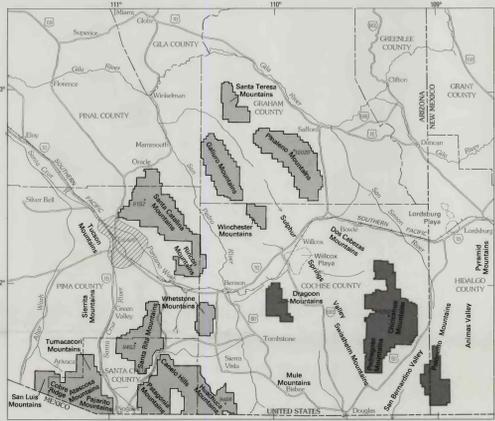


Dragon Forest unit

Base from U.S. Geological Survey 1:250,000  
Dragon, 1953 (revised 1970); Nogales, 1956 (revised 1968)  
Silver City, 1954 (revised 1970); Tucson, 1954 (revised 1968)  
Transverse Mercator projection  
Geology compiled by Harold Drewes 1991



INDEX MAP SHOWING LOCATION OF CORONADO NATIONAL FOREST (GRAY AREAS).  
Forest units shown on this plate are dark gray.

**EXPLANATION OF POTASSIUM DATA**  
Residual NURE indometric-potassium values plotted as deflection off flight path—Base value 250 CPS in Dragon Forest unit, 300 CPS elsewhere; scale factor 150 CPS/minute of latitude or longitude.  
Potassium anomaly discussed in chapter D, this volume.

**INTRODUCTION**  
Residual NURE indometric field data (observed field minus base value) plotted as a deflection off the flight path. For north-south flight lines, deflections right and left of flight lines are positive and negative anomalies, respectively. For east-west lines, deflections above (north) and below (south) of flight lines are positive and negative anomalies, respectively. A value near the mean anomaly for the data set was chosen as the base value, that is, the anomaly value that would plot on the flight path, and the scale factor was usually chosen to be about twice the standard deviation of the data. The scale factor is the number of anomaly units (CPS, counts per second) per minute of latitude or longitude on the map. Scale factors were chosen such that plotted profiles are easy to read and display as much detail in the data as possible. For the 5-km spaced NURE data and the 1:128,720 scale maps, a scale factor equivalent to two standard deviations proved satisfactory.

**CORRELATION OF MAP UNITS AND MINERALIZATION**

Rocks	Mineralization	Time
Qtg		Quaternary
Tv		Tertiary
Tr		
Tk		
Tkx		
Kv		
Kb		
Kx		
Jg		Jurassic
Jv		
Jy		
Py		Permian to Pennsylvanian
Pyv		
Yg		Yucca
Ym		
Xp		Early Proterozoic

**DESCRIPTION OF MAP UNITS**  
(All units may not appear on all maps)

Qtg Gravel, sand and conglomerate (Holocene to Miocene)—Alluvium filling intermontane basins, on pediments, in alluvial aprons and stream terraces, and along water courses.

Tv Basalt (Pliocene to Miocene)—Lava flows and cinder deposits.

Tr Sedimentary and volcanic rocks, undivided (Miocene to Eocene)—Erythraean to andesitic lava and tuff, and some interbedded conglomerate, sandstone, and shale.

Tk Rhyolitic rocks (Miocene and Oligocene)—Includes lava flows, tuffs, and tuffaceous sandstone.

Tkx Rhyolitic tuffs (Miocene and Oligocene)—Tuff, ash-flow tuff, tuff breccia, welded tuff, and some sedimentary rocks.

Kv Rhyolite lava flows (Miocene and Oligocene)—May include some intrusive bodies.

Kb Intrusive rocks (Miocene and Oligocene)—Rhyolite (Miocene and Oligocene)—Dikes and plugs.

Kx Granite (Oligocene)—Stocks.

Jg Andesitic rocks (Oligocene)—Lava flows, breccia deposits, and interbedded sedimentary rocks.

Jv Intrusive rocks (Eocene to Late Cretaceous)—Mainly Eocene to Late Cretaceous granite, monzonite, granodiorite, and diorite; some Oligocene to Late Cretaceous peraluminous (two-mica and garnet-bearing) granite. Includes Copper Creek Granodiorite.

Jy Volcanic and sedimentary rocks (Eocene to Upper Cretaceous)—Andesitic lava flows and breccia sheets, rhyolite tuff and welded tuff, and volcanoclastic sedimentary rocks.

Py Andesite (Eocene to Late Cretaceous)—Plugs, dikes, and stocks.

Pyv Rhyolite (Eocene to Late Cretaceous)—Plugs and dikes.

Yg Sedimentary and volcanic rocks, undivided (Upper Cretaceous)—Volcanoclastic conglomerate, sandstone, lacustrine shale, and some andesitic and rhyolite tuff.

Ym Rhyolite (Upper Cretaceous)—Lava flows, tuffs, and interbedded conglomerate and sandstone.

Xp Rhyolite tuff (Upper Cretaceous)—Includes airfall and ash-flow tuffs, tuff breccia, welded tuff, and sedimentary rocks.

Xm Rhyolite lava flows (Upper Cretaceous)—Includes some tuff and sedimentary rocks.

Xp Basalt (Lower Cretaceous)—Lava flows, breccia sheets, and interbedded conglomerate and sandstone.

Xm Basaltic andesite and andesite (Lower Cretaceous)—Lava flows, cinder deposits, and some dikes, sills, and plugs.

Xp Basalts and Temporal Formations, undivided (Lower Cretaceous)—Andesitic to rhyolitic rocks, conglomerate, and sandstone.

Jg Intrusive rocks (Jurassic)

Jv Granite stocks

Jy Rhyolite plugs

Jy Volcanic and sedimentary rocks (Jurassic to Upper Triassic)—Rhyolite welded tuff and lava flows, andesitic lava flows, volcanic sandstone, and redbeds. Includes Walnut Gap Formation, Canino Hills Volcanics, and Cochise Canyon and Mount Wilson Formations.

Py Metamorphic rocks (Paleozoic or Middle Proterozoic)—Metagranite, hornfels, and calc-alcifer carbonate rocks.

Pyv Naco Group (Lower Permian and Pennsylvanian)—Mainly limestone and dolomite; some siltstone, sandstone, and mafic stone.

Yg Sedimentary rocks (Mississippian)—Generally only Eadsboro Limestone; to the east unit also includes Paradise Formation, mostly shale.

Ym Lower Paleozoic formations, undivided (Upper Devonian to Middle Cambrian)—Mainly limestone and dolomite, some sandstone, shale, and conglomerate. Includes Paria Shale, Fortal, Swainson, Martin, El Paso, and Abasco Formations, Coronado Sandstone, and Iloca Quartzite.

Yg Database (Middle Proterozoic)—Includes some metadiorite, in sills, dikes, and plugs; line shows acidic rock.

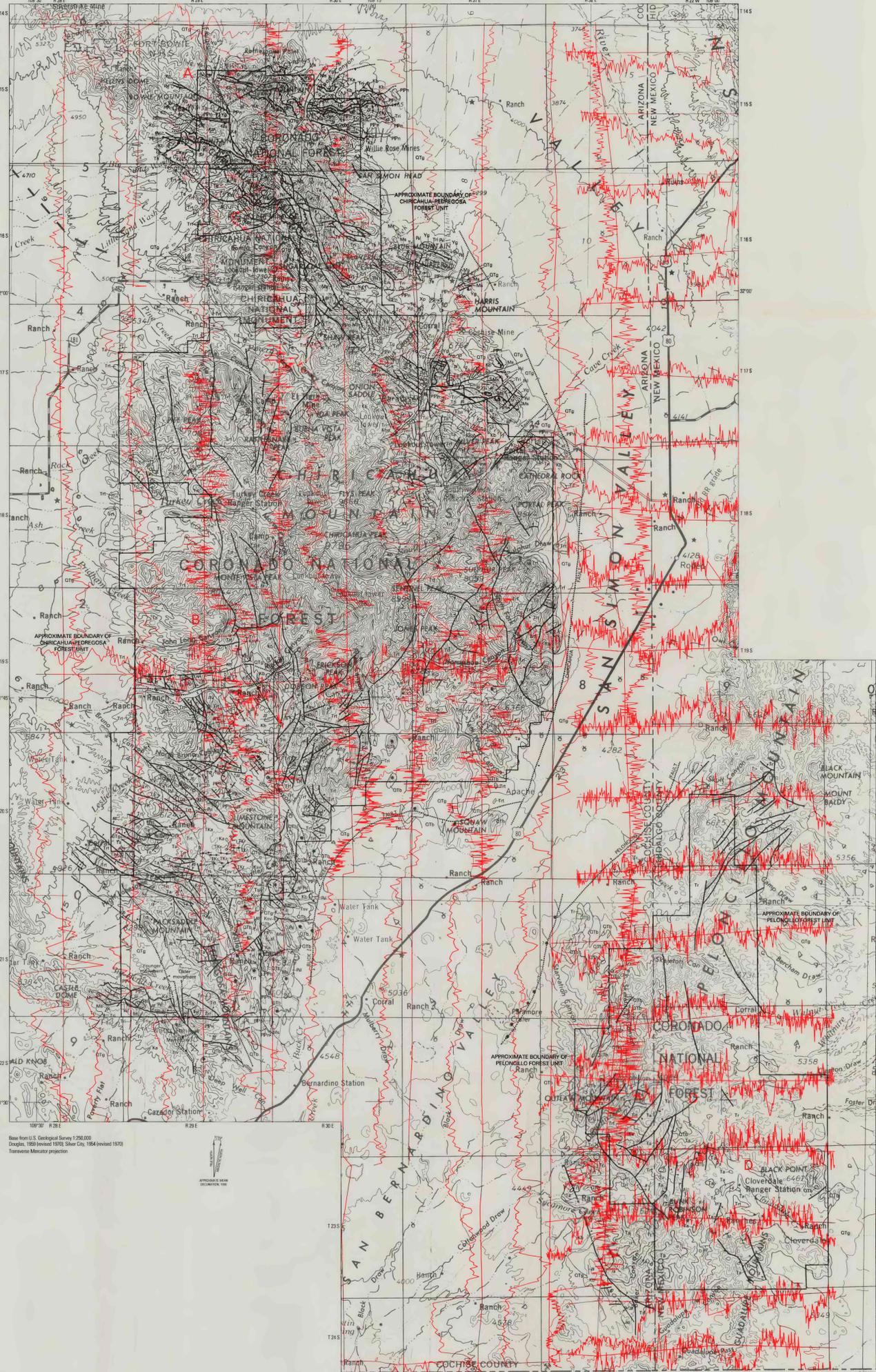
Ym Apache Group (Middle Proterozoic)—Sandstone, shale, argillite, some conglomerate, and possibly some limestone.

Ym Intrusive rocks (Middle Proterozoic)—Granite, granodiorite, and some andesite, apatite, and lamprophyre.

Ym Granite rocks (Middle and Early Proterozoic)—Metamorphosed granite and cinder schist or gneiss.

Xp Pinal Schist (Early Proterozoic)—Schist, phyllite, metagranite, metagneiss, and meta-gneiss rocks.

- Contact—Dotted where concealed, queried where uncertain
- Fault—Showing dip; dotted where concealed or intruded, queried where uncertain. Where solid line becomes dotted line within a map unit, that unit is a composite of several formations, of which a younger one conceals faulting in an older one.
- Normal fault—Dip and bar on downthrown side; dotted where concealed, queried where uncertain.
- Thrust fault—Sawtooth on upper plate.
- Glide fault—Open sawtooth on glide plate.
- Complex fault—Earlier thrust fault on which later glide (gravity) faulting took place.
- Strike-slip fault—Arrow-crook shows relative movement; queried where uncertain.
- Oblique-slip fault—Composite of strike-slip and normal movement likely, but either type of movement may have occurred without the other.
- Fold axis—Dotted where concealed; arrow shows direction of plunge.
- Anticline
- Anticline in foliation
- Overturned anticline—Side of closure of arrow ends is side of fold crest relative to fold axis.
- Syncline
- Syncline in foliation
- Overturned syncline—Side of closure of arrow ends is side of fold trough relative to fold axis.
- Strike and dip of beds
- Horizontal
- Inclined
- Vertical
- Overturned
- Strike and dip of foliation
- Inclined
- Vertical
- Cinder cone—Queried where uncertain



Peloncillo and Chiricahua-Pedregosa Forest units

Base from U.S. Geological Survey 1:250,000  
Dragon, 1953 (revised 1970); Silver City, 1954 (revised 1970)  
Transverse Mercator projection  
Geology compiled by Harold Drewes 1991

**NURE EQUIVALENT-POTASSIUM PROFILES FOR THE SOUTHEASTERN PART OF CORONADO NATIONAL FOREST AND ADJACENT AREAS, SOUTHEASTERN ARIZONA AND SOUTHWESTERN NEW MEXICO**

Compiled by  
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1996