

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES A DIVISION OF NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY



of mapping and the interpretation of the geologist(s). Any enlargement of this map could cause mapping, and available geophysical, and subsurface (drillhole) data. Cross sections should be used

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--- 6.2 Inclin + 6.3 Verti

<sup>1</sup>New Mexico Bureau of Geology and Mineral Resources, 801 Leroy Place, Socorro, NM 87801







NE 1/4 sec. 36, T. 25 S., R. 8 W., 0.5 mi east-northeast of Baldy Peak. Symbols same as cross section A–A'

## Description of Map

Ph

p€gd p€g p€s

01-01–Map Unit–Qs–Windblown sand–Unconsolidated dunes up to 10 ft high; mostly underlain by caliche horizon; forms over over map unit shown by symbol under the line (for example Qs/Qpa)

01-02–Map Unit–Qbfy–Younger basin-floor sediment–Predominately nongravelly to slightly gravelly alluvium in the Mimbres Basin unaffected by arroyo incision; contain very little pedogenic carbonate

01-03–Map Unit–Qca–Undifferentiated colluvium-alluvium–Thin talus-slope veneers and colluvial and alluvial fills on arroyo-valley sideslopes; found in mountain canyons and piedmont slopes

01-04–Map Unit–Qpa–Undifferentiated piedmont-slope alluvium–Complexly intermixed older piedmont-slope alluvium and younger piedmont-slope alluvium (Qpo and Qpy)

01-05–Map Unit–Qpo–Older piedmont-slope alluvium–Unconsolidated fan deposits, piedmont-valley fills, and erosion-surface veneers, associated with surfaces graded to closed basins; uppermost beds typically cemented with

01-06–Map Unit–Qpy–Younger piedmont-slope alluvium–Fills (silty to gravelly) of shallow drainageways cut below older fan and erosion surfaces graded to closed basins

01-07–Map Unit–Qm–Formation of Mimbres Basin–Fan gravel and interbedded, sandy lenses representing piedmont-slope facies; includes thin, erosion-surface veneers near mountain fronts; upper layers contain carbonate

accumulations (caliche) up to several f\* 01-08-Map Unit-QTm-Formation of Mimbres Basin-Similar to Qm but found on higher terrace and alluvial-fan remnants; igneous-rock clasts are much mroe 02-01-Map Unit-Ta-Diorite/andesite-Intensely altered and deeply weathered dikes and small irregular intrusions; exposed only in arroyos and on a few bare slopes and ridges

02-02–Map Unit–Tb–Basalt or basaltic-andesite dikes–Dark-gray to black, dense, aphanitic rock; a few dikes are diabasic; some of the rocks are slightly vesicular with carbonate and chlorite fillings

02-03–Map Unit–Tr–Rhyolite Dikes –Very light gray dikes ranging from 1 to 18 feet in thickness; holocrystalline, generally nonporphyritic, fractures commonly stained with manganese oxides

02-04–Map Unit–Trs–Starvation Draw member of Rubio Peak–Grayish-purple and reddish breccias of polylithic volcanic clasts grading upward into greenishgray breccias and conglomeratic sandstones; basal beds contain abundant granite and limestone clasts; \*

02-05–Map Unit–TKl–Lobo Formation–Interbedded reddish shale and chertlimestone conglomerate, calcareous gray siltstone, sandstone, and pebble to cobble congolmerate; this unit is Dalton's (1916) Lobo Formation; up to 500 ft thick

03-01–Map Unit–Ph–Hueco Formation–Thin- to medium-bedded, medium- to dark-gray limestone, slightly dolomitic near base; lenses of yellow to red sandstone interbedded near top; includes 30-ft Abo (?) tongue overlying the fossiliferous limestones; approxi\*

04-01-Map Unit-Mr-Rancheria Formation-Thin- to medium- bedded, darkgray to black, fine crystalline, fossiliferous limestone; containing up to 505 chert near top; 220 ft thick

05-01–Map Unit–Dp–Percha Shale–Dark-gray to olive-gray fissile shale, with 1ft black fossiliferous limestone bed 10 ft above base; 250 ft thick

## Description of Map Symbols

intensely weathered; up to 200 ft thick

ned bedding	4	6.4 Overturned bedding	 1.1.3 Contact—Identity and existence certain, location approxi
ical bedding		+ 31.10 Cross section line	 2.1.1 Fault (generic; vertical, subvertical, or high-angle; or unk orientation or sense of slip)—Identity and existence certain, lo
		- 5.1.1 Anticline (1st option)—Identity and existence certain, location accurate	 2.1.3 Fault (generic; vertical, subvertical, or high-angle; or unk orientation or sense of slip)—Identity and existence certain, lo
	<b></b> ↓	5.3.17 Overturned anticline (1st option)—Identity and existence certain, location accurate	 2.1.7 Fault (generic; vertical, subvertical, or high-angle; or unk orientation or sense of slip) – Identity and existence certain, lo
	<b>t</b>	5.7.17 Overturned syncline (1st option)—Identity and existence certain, location accurate	 2.4.1 Reverse fault—Identity and existence certain, location ac
		– 31.8 Map boundary	 2.4.3 Reverse fault—Identity and existence certain, location ap
		<ul> <li>1.1.1 Contact—Identity and existence certain, location accurate</li> </ul>	 2.8.1 Thrust fault (1st option)—Identity and existence certain,

06-01–Map Unit–Sf–Fusselman Dolomite–Tin- to massive-bedded, light- to dark-gray, medium- to coarse-crystalline dolomite; two coral-rich zones near base and one near top; sparse chert in basal and uppermost beds; 1,480 ft thick

07-01–Map Unit–Om–Montoya Formation–Basal, coarse sandy dolomite (Cable Canyon) overlain by dark-brown, coarse-crystalline dolomite (Upham), thinbedded, medium-gray limestone and cherty limestone (Aleman), and medium bedded limestone and dolomite; fos\*

07-02–Map Unit–Oe–El Paso Formation–Basal unit of dark-gray, mediumcrystalline dolomite overlain by thick middle unti of thin- to medium-bedded, light- to medium-gray limestone and cherty limestone, and upper unit of thinto medium- bedded, medium- to\*

07-03–Map Unit–O=b–Bliss Sandstone–Thin- to medium- bedded arkosic to quartzose sandstone; grades uo to calcareous sandstone and silty limestone, up to 120 ft thick

08-01–Map Unit–=gd–Granite with abundant xenoliths–Fine- to coarsecrystalline alkali feldspar granite containing up to 50% meladiotire, diorite and diorite-porphyry xenoliths; predominate bedrock type in lower slopes and ridges south of south Florida M\*

08-02–Map Unit–=g–Granite–Coarse-crystalline, brown, alkali-feldspar granite; contains approximately 65% perthite and microcline. 28% quartz, 5% chlorite (altered mafics), and 2% magnetite, zircon, sphene, and apaite; predominant bedrock type in lower s\*

08-03–Map Unit–=s–Syenite and quartz syenite –Predominately coarse crystalline with many aplitic zones; unweathered rock is bluish gray but prevailing outcrops are yellowish brown; composition ranges from alkalifeldpar syenite with only a trace of quar\*

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