

Glossary of major stratigraphic units

This glossary lists only stratigraphic names pertinent to the northeast Mogollon-Datil volcanic field (fig. 1). Units listed are not listed except for their stratigraphic position and are not used for correlation or other publications. Units of limited lateral extent, such as local basalt flows or members of complex cauldron-fill units, are not listed unless they have appeared in a publication or have special stratigraphic significance.

Formal names are included. Obsolete names are included to facilitate transition to the new nomenclature.

The numbered entries listed under each stratigraphic unit refer to the categories below. (N) signifies not applicable. The number in parentheses refers to Elston (1976) for ease of comparison with his comprehensive glossary.

- Area of occurrence
 - Origin of the name and/or location of the type locality
 - First mention in the literature; other important references
 - Rock type; general nature of thickness and continuity
 - Age, radiometric dates (published K-Ar dates have been adjusted for the new U/GS constants using the decay constants of Stehli and others, 1979)
 - Source of eruption
 - Stratigraphic correlation; synonymy
 - Comments
- Obsolete names, only items two and three and the reasons for abandonment are given. The reader is referred to the original papers for details of these details. More detailed information on units referred to by the unit descriptions on the stratigraphic columns and to the references cited. Formal names previously used and accepted are shown in bold type, accepted informal names are shown in regular type, and names that are being proposed are shown in a different color. The geographic location of the units is given in the geographic column. The geographic column is an ethnographic designation; for example, Bear Canyon, basal of member of Popotosa Formation. Obsolete names are shown in medium type followed by the word "obsolete" enclosed in brackets. For several units not previously used in a formal sense, we here state our intention to name them formally. These units are capitalized and shown in bold type on a pale yellow background throughout this publication. For each of these units, the information required by the Code of Stratigraphic Nomenclature for formal naming can be found in this report and in a separately published section. The geographic column of supporting data for these units will be given in a subsequent series of New Mexico Bureau of Mines and Mineral Resources circulars.

A-1 Peak Rhyolite, A-1 Peak Tuff, A-1 Peak Formation [OBSELETE]

(1) A-1 Peak in northeast San Mateo Mountains, approximately 20 mi (32 km) south of the city of Lordsburg, Socorro Co., 6, T. 5 S., R. 1 W., Luis Lopez 7½-min quadrangle. (2) Deal, 1937; Simon, 1973; and Deal and Rhodes, 1976. (3) Name abandoned in this report because the type section on A-1 Peak was mislocated with outflow exposure on an older unit called A-1 Peak Tuff. (4) Formerly called A-1 Peak Tuff. (5) The rocks on A-1 Peak are now correlated with and called the South Canyon Tuff, the third regional ash-flow tuff above La Jencia Tuff. See **La Jencia Tuff and Vicks Peak Tuff**.

Allen Well, tuff [OBSELETE]

(1) Allen well in Dry Lake Canyon, approximately 7 mi (11 km) northwest of Magdalena, Socorro Co., 10, T. 2 S., R. 1 W., Silver Hill 7½-min quadrangle. (2) Brown, 1927; and Simon, 1973. (3) Name no longer used, because it is correlative with the Lemitar Tuff. (4) Both members of the Lemitar Tuff are present at Allen well; however, only the upper member of the Lemitar Tuff is present at Allen well. (5) The lower member is a rhyolite, and the upper member is a basalt. (6) Interbedded with the rhyolite. (7) Mislocated the crystal poor lower member of the Lemitar Tuff with the lower part of a La Jencia Tuff. (8) Unknown but probably local. (9) A-1 Peak Tuff is interbedded with the volcaniclastic rocks of South Croby Peak Formation as described by Lopez and Borhorth (1979), nor does it overlie the tuff of Rock Tuff. Both the tuff of Arach Ranch and the Lemitar Tuff, however, 1979 are part of the outflow sheet of the Hells Mesa Tuff.

Arroyo Montosa, unit of, member of the Popotosa Formation

(1) Multicolor (approximately 10 km) northwest of Magdalena. (2) Arroyo Montosa, sec. 14, unsurveyed, 23, 24, T. 2 S., R. 2 W., Silver Hill 7½-min quadrangle. (3) Simon, 1973; and Chapin and Seager, 1975. (4) Interbedded fanglomerates and tuffaceous sandstones. (5) 27.6 ± 1.2 m. (6) Interbedded with the rhyolite. (7) Locally quartz-lite. (8) Above South Canyon Tuff and Hale Well tuff. (9) Tuffaceous sandstone. (10) Tuffaceous sandstone.

Caronita Canyon, tuff of, member of the Sawmill Canyon Formation

(1) Southern and central Magdalena Mountains, north and northwest San Mateo Mountains, Socorro Co., 20, T. 2 S., R. 1 W., Silver Hill 7½-min quadrangle. (2) Caronita Canyon in southeast Magdalena Mountains, approximately 15 mi (24 km) southwest of Socorro, sec. 6, T. 4 S., R. 2 W., Molino Peak 7½-min quadrangle. (3) Eggleston, 1982. (4) Basalt flows, thin and local. (5) Not dated. (6) Interbedded with the rhyolite. (7) Locally quartz-lite. (8) Above South Canyon Tuff and Hale Well tuff. (9) Tuffaceous sandstone. (10) Tuffaceous sandstone.

Arch Ranch, tuff [OBSELETE]

(1) Arch Ranch, approximately 1.3 mi (2 km) east-northeast of Datil; sec. 7, T. 2 S., R. 9 W., Datil 7½-min quadrangle. (2) Lopez, 1975; Borhorth, 1976; and Lopez and Borhorth, 1979. (3) Name abandoned in this report because it is correlative with Hells Mesa Tuff. (4) The tuff of Arch Ranch is not interbedded with the volcaniclastic rocks of South Croby Peak Formation as described by Lopez and Borhorth (1979), nor does it overlie the tuff of Rock Tuff. Both the tuff of Arch Ranch and the Lemitar Tuff, however, 1979 are part of the outflow sheet of the Hells Mesa Tuff.

Baca Formation

(1) Along the north end of Mogollon-Datil volcanic field from near Springerville, Arizona, to the northeast Mogollon-Datil volcanic field, including the northern Jornada del Muerto, and Carthage areas. (2) Baca Canyon in northeast Bear Mountains, approximately 15 mi (24 km) northwest of Socorro, sec. 4, 5, 8, 9, T. 1 N., R. 4 W., Mesa Cencero 7½-min quadrangle. (3) Wilmont, 1973. (4) Basalt flows, thin and local. (5) Not dated. (6) Interbedded with the rhyolite. (7) Locally quartz-lite. (8) Above South Canyon Tuff and Hale Well tuff. (9) Tuffaceous sandstone. (10) Tuffaceous sandstone.

Bear Canyon, basal of, member of the Popotosa Formation

(1) Bear Canyon, approximately 6 mi (10 km) southwest of Socorro, just south of and just west of the northern Chupadera Mountains; sec. 1, T. 4 S., R. 2 W., Luis Lopez 7½-min quadrangle. (2) Chamberlain, 1980. (4) Basalt flows, thin and local. (5) Not dated. (6) Interbedded with the rhyolite. (7) Unknown. (8) Correlative with the Popotosa Formation.

Bear Springs, tuff [OBSELETE]

(1) Bear Springs, in southern Bear Mountains, approximately 8 mi (13 km) north of Magdalena; sec. 9, 16, 21, T. 3 S., R. 4 W., Magdalen 7½-min quadrangle. (2) Brown, 1927. (3) Name abandoned by Deal (1973) and Simon (1973) in favor of A-1 Peak Tuff, which here is referred to as the formerly lower member A-1 Peak Tuff and Vicks Peak Tuff (formerly upper member A-1 Peak Tuff). See **La Jencia Tuff and Vicks Peak Tuff**.

Beatrap Canyon formation [DEFINITION INADEQUATE, USE WITH CAUTION]

(1) Beatrap Canyon, San Mateo Mountains, approximately 22 mi (35 km) southwest of Magdalena; sec. 7, 18, T. 6 S., R. 7 W., Bay Buck Peaks 7½-min quadrangle. (2) Deal, 1937; Simon, 1973; and Deal and Rhodes, 1976. (3) Definition inadequate because Beatrap Canyon formation (Deal and Rhodes, 1976) included cauldron-fill units of two or more overlying cauldrons in the northern San Mateo Mountains plus younger units in the west-northwest quadrant. (4) Simon and Seager (1975) defined Beatrap Canyon as a rhyolite flow and a basalt flow. (5) Deal and Rhodes (1976) defined Beatrap Canyon as a rhyolite flow and a basalt flow. (6) Deal and Rhodes (1976) defined Beatrap Canyon as a rhyolite flow and a basalt flow. (7) Deal and Rhodes (1976) defined Beatrap Canyon as a rhyolite flow and a basalt flow. (8) Deal and Rhodes (1976) defined Beatrap Canyon as a rhyolite flow and a basalt flow. (9) Deal and Rhodes (1976) defined Beatrap Canyon as a rhyolite flow and a basalt flow. (10) Deal and Rhodes (1976) defined Beatrap Canyon as a rhyolite flow and a basalt flow.

Deep Well, basaltic andesite of

(1) Datil Mountain, northeast Gallinas Mountains. (2) Outcrops near Deep Well windmill in northeast Datil Mountains, approximately 11 mi (17 km) northeast of Datil and 4 mi (6 km) due west of North Lake; sec. 6, T. 1 S., R. 8 W., unsurveyed, Dog Springs 7½-min quadrangle. (3) Chamberlain, 1980. (4) Basalt flows, thin and local. (5) Not dated. (6) Interbedded with the rhyolite. (7) Locally quartz-lite. (8) Above South Canyon Tuff and Hale Well tuff. (9) Tuffaceous sandstone. (10) Tuffaceous sandstone.

La Jencia Tuff

(1) Present throughout the northeast Mogollon-Datil volcanic field. (2) La Jencia Basin; good exposures are present along both sides of the basin in the Bear and Lemitar Mountains, approximately 16 mi (26 km) northwest of Socorro, sec. 4, 5, 8, 9, T. 1 N., R. 4 W., Mesa Cencero 7½-min quadrangle. (3) Wilmont, 1973. (4) Basalt flows, thin and local. (5) Not dated. (6) Interbedded with the rhyolite. (7) Locally quartz-lite. (8) Above South Canyon Tuff and Hale Well tuff. (9) Tuffaceous sandstone. (10) Tuffaceous sandstone.

La Jencia Peak, tuff of

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Lower member of the Lemitar Tuff

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Popotosa Formation

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Rock House Canyon Tuff

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Sawmill Canyon Formation

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South Canyon Tuff

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(1) Present throughout the northeast Mogollon-Datil volcanic field. (2) La Jencia Basin; good exposures are present along both sides of the basin in the Bear and Lemitar Mountains, approximately 16 mi (26 km) northwest of Socorro, sec. 4, 5, 8, 9, T. 1 N., R. 4 W., Mesa Cencero 7½-min quadrangle. (3) Wilmont, 1973. (4) Basalt flows, thin and local. (5) Not dated. (6) Interbedded with the rhyolite. (7) Locally quartz-lite. (8) Above South Canyon Tuff and Hale Well tuff. (9) Tuffaceous sandstone. (10) Tuffaceous sandstone.

Lower member of the Lemitar Tuff

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Lower member of the Lemitar Tuff

(1) Present throughout the northeast Mogollon-Datil