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1879-2004

Mancos Shale

Usage of Geologic Unit Name:

Mancos Shale

(AZ*,CO*,NM*,UT*,WY*)

Mancos Group (CO*,UT*)

Age:

Cretaceous, Early* (local)

Albian* (local)

Cretaceous, Late*

Cenomanian*

Turonian*

Coniacian*

Santonian*

Campanian*

Geologic Province:

Basin and Range province*

Black Mesa basin*

Estancia basin*

Green River basin*

Orogrande basin*

Paradox basin*

Piceance basin*

Plateau sedimentary province*

San Juan basin*

San Juan Mountains province*

Uinta basin*

Areal Extent:

AZ*

CO*

NM(n)*

UT*

WY(c)*

Type Locality:

No type designated. Named for occurrence in Mancos Valley and around town of Mancos, between La Plata



This view shows part of the Mancos Shale where it crops out along the Notom-Bullfrog Road in southern Capitol Reef National Park.

Mountains and Mesa Verde, Montezuma Co., CO (Cross, 1899). Type section for "Mancos B" subsurface unit within Mancos shale designated at 2349-2830 ft interval in General Petroleum Douglas Creek No. 1, sec. 24, T. 2 S., R. 103 W., Rio Blanco Co., CO (Kellogg, 1977).

Subunits:

Group rank (alphabetical): **Buck Tongue (CO*)**, Frontier Formation (CO*,UT*), Mowry Shale (CO*,UT*).
 Formation rank (alphabetical): **Anchor Mine Tongue (CO*,UT*)**, Aspen Member (UT,WY), /Black Butte Tongue (WY), Blue Gate Member (UT*), Bridge Creek Limestone Member (NM*), Buck Tongue (CO*,UT*), Bull Point Sandstone Member (UT), Carlile Member (NM*), Clay Mesa Tongue (NM*), Cooper Arroyo Sandstone Member (NM*), Emery Sandstone Member (UT*), D-Cross Tongue (NM*), Devils Grave Sandstone [Member] (CO), El Vado Sandstone Member (NM*), Ferron Sandstone Member (CO*,UT*), Fort Hays Limestone Member (CO*), Fort Hays Limestone Member (CO*), Garley Canyon Sandstone Member (UT*), Graneros Member (CO,NM*), Greenhorn Limestone Member (NM*), Hartland Shale Beds (NM), /Hopi Sandy Member (AZ), Horsehead Tongue (NM), Hunt Creek Sandstone [Member] (CO), Juana Lopez Member (CO*,NM*), Loyd Sandstone Member (CO*), Masuk Member (UT*) or Masuk Tongue (UT), Meeker Sandstone Member (CO*), Morapos Sandstone Member (CO*), Mowry Member (UT*), Mulatto Tongue (NM*), Muley Canyon Sandstone Member (UT), Niobrara Member (CO*,NM*), Pescado Tongue (AZ*,NM*), Rangely Tongue (CO,UT), Rio Salado Tongue (NM*), Sanastee Sandstone Member (NM), Satan Tongue (NM*), Semilla Sandstone Member (NM*), Tocito Sandstone Lentil (CO,NM*), Tununk Member (UT*), Whitewater Arroyo Tongue (NM*), Wildcat Canyon Sandstone Member (UT), Wind Rock Tongue (AZ).

Unit Name History:

Named (Cross and Purington, 1899). Revised (Lee, 1912; Lupton, 1914; Collier, 1919; Reeside, 1924; Spieker and Reeside, 1925; Clark, 1928; Erdmann, 1934; Sears, 1934; Hunt, 1936; Fisher, 1936). Revised; Overview (Pike, 1947). Revised (Dane, 1948; Hale, 1955; Beaumont and others, 1956). Revised; Overview (Repenning and Page, 1956). Revised (Dane and others, 1957; Young, 1959). Overview (Fisher and others, 1960; Dyni and Cullins, 1965). Revised (Carter and Gualtieri, 1965; Landis and Dane, 1967; Dane and others, 1968; Dickinson and others, 1968; Correa, 1970). Overview (Izett and others, 1971). Revised (Landis and others, 1973; Hail, 1974). Biostratigraphic dating; Isotopic dating (Obradovich and Cobban, 1975). First published use of subsurface "Mancos B" unit (Kellogg, 1977). Revised; Reference (Fassett and Jentgen, 1978). Revised; Areal limits (Sargent and Hansen, 1982). Revised; Overview (Hook and others, 1983). Age modified; Overview (Fouch and others, 1983). Overview (Smith, 1983). Mapped 1:24k (O'Sullivan, 1985). Revised (Franczyk, 1988). Overview (Kirk and others, 1988). Biostratigraphic dating (Cobban, 1988a, 1988b, 1988c; Cobban and Hook, 1989; Cobban and Kennedy, 1989). Areal limits (Molenaar and Baird, 1989). Age modified locally; Biostratigraphic dating; Revised (Molenaar and Wilson, 1990). Revised (Eaton, 1990; Molenaar and Cobban, 1991). Revised; Areal limits (Johnson and Johnson, 1991). Biostratigraphic dating; Hopi Sandy Member named (Kirkland, 1991).

References