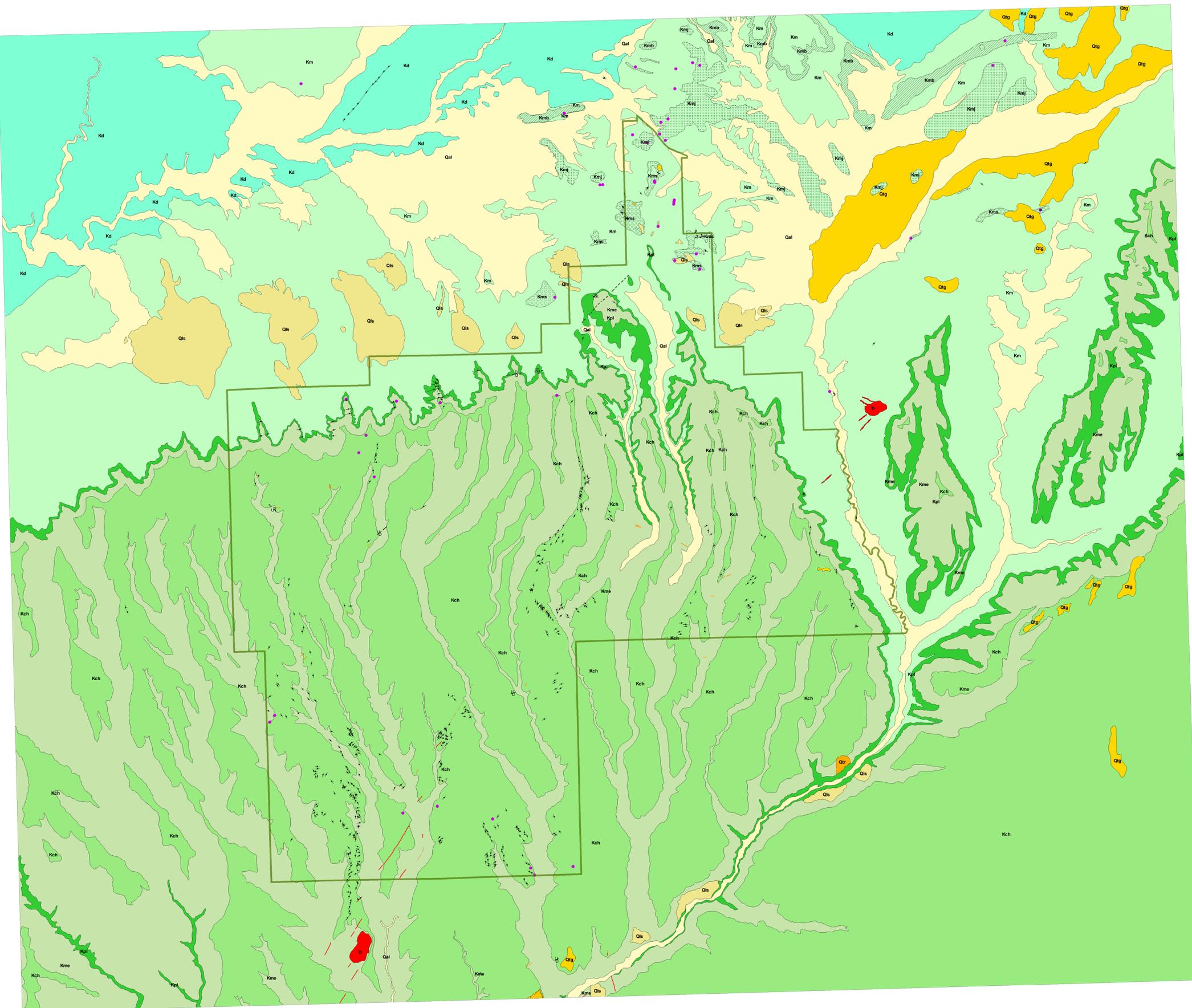




Geology of Mesa Verde NP



The original maps digitized by NPS staff to create this product were:

Griffitts, Mary O., 1999, Mesa Verde National Park Geology: National Park Service, scale 1:24,000.

Condon, Steven M., 1991, Geologic and structure contour map of the Ute Mountain Ute Indian Reservation and adjacent areas, southwest Colorado and northwest New Mexico: U.S. Geological Survey Miscellaneous Investigations Series Map I-2083, scale 1:100,000.

Ekren, E.B. and Houser, F.N., 1965, Geology and petrology of the Ute Mountains area, Colorado: U.S. Geological Survey Professional Paper 481, scale 1:48,000.

Hayner, D.D., Vogel, J.D., and Wyant, D.G., 1972, Geology, structure and uranium deposits of the Cortez Quadrangle, Colorado and Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-629, scale 1:250,000.

Leckie, R. Mark, Kirkland, James I., and Elder, William P., 1997, Stratigraphic framework and correlation of a principal section of the Mancos Shale (Upper Cretaceous), Mesa Verde, Colorado: New Mexico Geological Society Guidebook, 48th Field Conference, Mesozoic Geology and Paleontology of the Four Corners Region.

Wanek, A.A., 1959, Geology and fuel resources of the Mesa Verde area, Montezuma and La Plata counties, Colorado: U.S. Geological Survey Bulletin 1072-M, scale 1:63,360.

Base maps from U.S. Geological Survey 7.5 minute series topographic quadrangle maps Cortez (1965, photorevised 1979), Point Lookout (1965, photorevised 1973), Mancos (1965), Wetherill Mesa (1966, photorevised 1975), Moccasin Mesa (1967, photorevised 1975), and Trail Canyon (1966), Colorado; also from 7.5 minute series orthophotoquads Cortez (1975), Point Lookout (1978), Mancos (1978), Wetherill Mesa (1975), Moccasin Mesa (1975), and Trail Canyon (1975), Colorado.

Digital geologic data and cross sections for Mesa Verde National Park, and all other digital geologic data prepared as part of the Geologic Resources Divisions Geologic Resource Evaluation program, are available online: http://www2.nature.nps.gov/geology/inventory/gre_publications.cfm

NPS Boundary	Linear Geologic Units
NPS Boundary	Qtr - travertine
Geologic Attitude and Observation Points	Geologic Units
strike of vertical joints	Qal - alluvium
upthrown side of fault	Qls - colluvium
downthrown side of fault	Qtg - high level terrace gravels
Age Date Localities	Qtgt - high level terrace gravels with travertine cement
paleontologic sample	Qtr - travertine
Linear Joints	Ti - minette
joint, known location	Kch - Cliff House Formation
Faults	Kme - Menefee Formation
approximate location	Kpl - Point Lookout Formation
inferred location	Km - Mancos Formation
Linear Dike Units	Kms - Mancos Formation, Smoky Hill oyster bench
Ti - known location	Kmj - Mancos Formation, Juana Lopez Member
Ti - approximate location	Kmb - Mancos Formation, Bridge Creek Member
Geologic Contacts	Kd - Dakota Sandstone
known location	
approximate location	
concealed location	
quadrangle boundary	

