MR3 WEST

MR3' EAST

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Open-File Report 744

Stratigraphic Cross Section of Mississippian through Lower Cretaceous Rocks across Southern Montana from the Crazy Mountains Basin to the Black Hills Uplift

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Composite section from outcrop: Tobacco Root Mountains [1]

~ 80 km

Eastern edge of fold-thrust belt [2]

Crazy Mountains Basin [3]

Northern Bighorn Basin [4]

Fromberg fault zone

Pryor Mountains Uplift [5]

Powder River Basin [6]

Black Hills Uplift [7]

MT | WY | WY | SD

GENERALIZED LITHOSTRATIGRAPHIC COLUMN OF NORTHERN TOBACCO ROOT MOUNTAINS, MONTANA

VERTICAL SCALE

EXPLANATION

Cross-bedded sandstone
Ripple-laminated sandstone
Sandstone
Siltstone
Shale
Silty shale
Limestone
Dolomite
Chert nodules
Coal seam
Volcanic ash/bentonite or other deposits
Volcanic flow rock

PERIOD	EPOCH	FORMATION	MEMBER
CRETACEOUS	LOWER	Ellis Group	Morrison Formation
			Kootenai Fm.
			Cutbank Ss. Mbr.
			Sawtooth Mtn. Mbr.
			Moulton Ss. Mbr.
			Rierdon Fm.
JURASSIC	UPPER	Swift Fm.	
		Sawtooth Fm.	
		Rierdon Fm.	
	MIDDLE	Piper Fm.	
		Phosphoria Fm.	
	LOWER	Quadrant Fm.	
TRIASSIC	UPPER	Amsden Fm.	
		Woodhurst Mbr.	
		Kevin Sunburst Mbr.	
		Basal Sandstone Mbr.	
PENNSYLVANIAN		Quadrant Fm.	
MISSISSIPPIAN	UPPER	Amsden Fm.	
		Big Snowy Group	Otter Fm.
			Kibbey Ss. Mbr.
			Kibbey Fm.
			Lombard Ls. Mbr.
			Castle Reef Dolomite Mbr.
		Madison Group	Mission Canyon Fm.
			Lodgepole Fm.
			Upper Paine Mbr.
			Middle Paine Mbr.
			Lower Paine Mbr.
			Sappington Mbr.
			Three Forks Fm.
DEVONIAN		Jefferson Fm.	
		Beaverhead Fm.	
		Maywood Fm.	
		Threeforks Fm.	
		Jefferson Fm.	
		Three For