

EXHIBIT B-16

Stratigraphic Nomenclature for Michigan, MDEQ

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STRATIGRAPHIC NOMENCLATURE FOR MICHIGAN

Michigan Dept. of Environmental Quality
Geological Survey Division
Harold Fitch, State Geologist
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This work is the product of the combined efforts of the geological communities of Michigan and the surrounding states and provinces. Below are given just a representative few of the contributors:

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A complete listing of all contributors will be found in the Stratigraphic Lexicon for Michigan, of which this column is an integral part.

RELATED TERM CORRELATION

STRATIGRAPHIC POSITION	RELATED TERMS
Ionia Fm	Jurassic Red Beds
Michigan Fm	Clare Dolomite, Brown Lime, Stray Dolomite, Stray Sandstone, Stray-Stray Sandstone, Triple Gyp
Coldwater Sh	Coldwater Red Rock, Speckled Dolomite, Wier Sand
Antrim Sh	Charlton Black Shale Member, Eltrim, Chester Black Shale Member, Upper Black Shale, Light Antrim, Lower Black, Lower Antrim, Middle Antrim, Middle Gray Antrim, Dark Antrim, Middle Gray Shale, Unit 1A, Unit 1B, Unit 1C, Crappo Creek Grey Shale Member
Dundee Ls	Reed City Member/Dolomite/Anhydrite
Lucas Fm	Freer Sandstone, Homer Member, Iutzi Member, Massive Salt/Anhydrite, Sour Zone, Big Anhydrite, Richfield Zone/Member/Sandstone, Big Salt
Amherstburg Fm	Filer Sandstone, Meldrum Member, Black Lime
St. Ignace Dolomite	Salina H Unit
Salina B Unit	Big Salt, B Salt
Ruff Formation	Salina A-1 Carbonate, Rabbit Ears Anhydrite
Cain Fm	Salina A-0 Carbonate
Guelph Dolomite	Brown Niagara, Niagaran Reef, Pinnacle Reef, Engadine Dolomite
Lockport Dolomite	Gray Niagara, White Niagara
Burnt Bluff Gr	Clinton Formation
Trenton Fm	Cap Dolomite
Black River Fm	Van Wert Zone, Sneaky Peek, Black River Shale
Glenwood Fm	Goodwell Unit, Zone of Unconformity
St. Peter Sandstone	Bruggers Sandstone, Jordan Sandstone, Knox Sandstone, Massive Sand
Prairie du Chien Gr	Foster Formation, New Richmond Sandstone, Lower Knox Carbonate, St. Lawrence Formation, T-PDC, Oneida Dolomite, Brazos Shale
Trempealeau Fm	Lodi Formation
Galesville Ss	Dresbach Sandstone
Pre-Mt. Simon Clastics	Precambrian "Red Beds"

LEGEND

Sandstone	Limestone
Limey	Shaley
Shaley	Sandy
Dolomitic	Dolomite
Conglomeritic	Sandy
Siltstone	Shaley
Shale	Glacial Drift
Sandy	Anhydrite/Gypsum
Limey	Reefs/Bioherms
Dolomitic	Basement Rocks
Salt	Coal Bed

GEOLOGIC TIME				OUTCROP NOMENCLATURE			DOMINANT LITHOLOGY		SUBSURFACE NOMENCLATURE		
ERA	PERIOD	EPOCH	NORTH AMERICAN STAGES	GROUP	FORMATION	MEMBER			FORMATION	GROUP	
Cenozoic	Quaternary	Pleistocene	Wisconsinan		Glacial Drift				Glacial Drift		
Mesozoic	Jurassic	Middle	Oxfordian		Ionia Fm				Ionia Fm		
		Late	Conemaugh		Grand River Fm				Grand River Fm		
Paleozoic	Pennsylvanian	Early	Pottsville		Saginaw Fm				Saginaw Fm		
					Parma Ss				Parma Ss		
					Bayport Ls				Bayport Ls		
		Mississippian	Late	Meramecian		Michigan Fm				Michigan Fm	
						Marshall Ss				Marshall Ss	
	Early		Osagian		Coldwater Sh				Coldwater Sh		
	Devonian	Late	Chautauquan		Sunbury Sh				Sunbury Sh		
					Ellsworth Sh (western)	Berea Ss (eastern)		Ellsworth Sh (western)	Berea Ss (eastern)		
		Middle	Erian	Traverse Gr		Antrim Sh				Antrim Sh	
Paleozoic	Silurian	Late	Cayugan	Salina Gr		Pte. aux Chenes Fm					
		Middle	Niagaran	Engadine Gr		Bush Bay Fm				Guelph Dol	
						Rapson Creek Fm					
						Rockview Fm					
						Cordell Fm					
						Schooldcraft Fm					
	Early	Ulsterian	Detroit River Gr		Hendricks Fm				Lockport Dol		
					Byron Fm						
					Lime Island Fm						
					Cabot Head Sh						
					Manitoulin Dol						
Ordovician	Late	Cincinnatian	Richmond Gr		Big Hill Fm						
					Stonington Fm						
					Bay de Noc Mbr						
					Bill's Creek Sh						
					Collingwood Sh						
	Middle	Mohawkian			Trenton Fm				Trenton Fm		
					Groes Quarry Mbr						
					Chandler Falls Mbr						
					Black River Fm						
					Glenwood Fm						
Early	Canadian			<unconformity>				St.Peter Ss			
Cambrian	Late	Dresbachian			Au Train Fm			Foster Fm			
Precambrian	Middle Proterozoic Eon	Oronite Gr			Miner's Castle Mbr			Franconia Fm			
					Chapel Rock Mbr						
					Basal Cgl						
					Jacobsville Ss						
					Freda Ss						
Precambrian	Archean to Middle Proterozoic Eons				Nonesuch Sh			Eau Claire Fm			
					Copper Harbor Cgl						