

SYMBOL	MEMBER	DESCRIPTION	THICKNESS	
	SOIL MANTLE	1C Black topsoil and reddish-brown clay.	0'-2.5'	0'-50'
		2C Alluvium; silty in upper part, sand and gravel in lower.	0'-50'	
		3C Kansas Till; olive-drab fill, weathers red-brown, silt and sand lenses, locally contains pebbles and boulders	0'-29.8'	
	TOWANDA LIMESTONE	4R Limestone; light gray, platy.	8.0'-16.3'	20.0'±
		5R Shale; gray-brown, limy.*	0-4'-3.1'	
		6R Limestone; light-gray, platy.	1.8'-8.7'	
	HOLMESVILLE SHALE	7R Shale; green, blocky, contains a lensing maroon band.*	11.5'	24.9'±
		8R Limestone; gray, impure, cellular lensing.	0.2'-0.5'	
		9R Siltstone; green, blocky, contains lensing limestone at base. Maybe absent.*	3.1'	
		10R Shale; light gray, blocky, chalky.*	6.2'	
		11R Limestone; light gray, blocky.	0.2'	
		12R Shale; light green, limy.*	3.1'	
	FORT RILEY LIMESTONE	13R Limestone; light gray, shaly, platy.	7.2'	22.9'±
		14R Limestone; light gray, blocky, dense, cellular.	0.6'	
		15R Limestone; light gray, platy, shaly.	2.6'	
		16R Limestone; light gray to buff, blocky, a variable zone, sometimes massive with no horizontal partings, but generally contains several horizontal partings.	5.1'	
		17R Limestone; very light gray, blocky, "rimrock", varies in thickness.	3.4'	
		18R Limestone; buff, shaly, contains a lensing limestone up to 1.9' thick.	4.0'	
	OKETO SHALE	19R Shale; blue-gray, limy.*	3.4'-8.5'	14.3'±
		20R Limestone; gray, shaly, contains scattered chert nodules.	1.6'	
		21R Shale; blue-gray, limy.*	2.9'-4.2'	
	FLORENCE LIMESTONE	22R Limestone; blue-gray, locally contains scattered chert nodules.	2.6'	27.6'±
		23R Shale; light gray, limy, platy.*	0.7'	
		24R Shale; blue-gray, limy, platy.*	0.6'	
		25R Shale; blue-gray, limy, platy.*	0.9'	
		26R Limestone; blue-gray, chert bands.	19.5'	
		27R Shale; green, limy, platy.*	0.5'	
28R Limestone; blue-gray, weathers buff, and platy, locally consists of 3 cherty limestones separated by limy shales.	2.8'			

SYMBOL	MEMBER	DESCRIPTION	THICKNESS	
	BLUE SPRINGS SHALE	29R Shale; green, blocky.*	6.2'	20.1'±
		30R Shale; maroon, limy, blocky.*	1.8'	
		31R Limestone; light green, shaly, variable, porous.	0.3'	
		32R Limestone; maroon, shaly, weathers to blocky shale, carries water.	2.0'	
		33R Shale; maroon with thin green bands; blocky, limy.*	2.8'	
		34R Shale; green, blocky, limy.*	0.9'	
	KINNEY LIMESTONE	35R Shale; maroon, blocky, limy.*	3.3'	20.8'±
		36R Shale; green, blocky, limy.*	2.8'	
		37R Limestone; light green, blocky, shaly, no horizontal partings where fresh.	1.6'	
	WYMORE SHALE	38R Limestone; bright brown, blocky, water carrier.	2.2'	22.1'±
		39R Shale; dark gray, blocky, weathers platy, carries water.*	14.5'	
		40R Limestone; light brown, blocky, lower 0.3' shaly.	0.6'	
		41R Shale; gray-green, blocky.*	1.3'	
	SCHROYER LIMESTONE	42R Limestone; light brown, blocky, variable.	0.6'	13.6'±
		43R Shale; light olive green, platy, blocks out where fresh.*	5.0'	
		44R Shale; buff, platy, somewhat clayey.*	1.2'	
		45R Shale; dark green, blocky.*	5.0'	
		46R Shale; maroon, blocky, limy.*	2.3'	
		47R Limestone; light gray, impure, variable.	0.6'	
	HAVENSVILLE SHALE	48R Shale; green and maroon bands, blocky, limy.*	2.6'	19.9'±
		49R Shale; light green, blocky, limy.*	5.4'	
		50R Limestone; light gray, blocky, cellular.	2.6'	
	THREEMILE LIMESTONE	51R Shale; green, platy.*	2.0'	8.2'±
		52R Limestone; buff, cherty.	1.3'	
		53R Shale; green, platy, limy.*	0.8'	
		54R Limestone; buff, contains four chert bands, the upper two bands are 0.3' and 0.6' respectively.	3.6'	
		55R Shale; green, platy, limy.*	0.2'	
		56R Limestone; light gray, blocky, contains cavities and has a weak zone in its center portion.	3.1'	
	CROUSE LIMESTONE	57R Shale; green, blocky.*	0.6'	9.8'±
		58R Limestone; buff, irregular.	0.2'	
		59R Shale; gray-green, blocky.*	0.8'	
		60R Limestone; light gray, blocky, weathers out in nodules.	1.6'	
		61R Limestone; buff, platy, somewhat shaly, wavy bedded.	2.7'	
		62R Shale; green, platy.*	2.3'	
	FUNSTON LIMESTONE	63R Siltstone; light brown.*	0.2'	17.6'±
		64R Shale; dark blue-gray, platy, clayey, weathers tan.*	11.5'	
		65R Limestone; buff, blocky, contains three chert bands.	5.9'	
		66R Shale; green, platy, limy.*	0.1'	
		67R Limestone; buff, blocky.	0.8'	
		68R Shale; green, platy, limy.*	0.4'	
	SPEISER SHALE	69R Limestone; buff, blocky, contains a chert band.	1.0'	20.1'±
		70R Shale; green, platy, contains lensing shale limestone.*	2.2'	
		71R Limestone; light gray, blocky.	0.5'	
		72R Shale; light green, blocky, limy.*	1.7'	
	BLUE RAPIDS SHALE	73R Shale; green, blocky.*	1.7'	14.8'±
		74R Shale; maroon, blocky.*	0.4'	
		75R Shale; green, blocky.*	0.9'	
		76R Shale; maroon, with three green bands, blocky, limy.*	5.2'	
		77R Limestone; light gray-green, shaly, nodular.	0.4'	
		78R Shale; green, blocky, limy.*	0.5'	
	CROUSE LIMESTONE	79R Shale; maroon, blocky, limy.*	1.6'	9.8'±
		80R Shale; green, blocky, limy, contains thin impure nodular limy zones.*	2.5'	
		81R Limestone; light green, blocky, weathers platy.	1.3'	
		82R Shale; green platy, lower 0.1' is stained brown with ground water.*	1.5'	
		83R Limestone; light gray, blocky, weathers platy.	0.6'	
		84R Shale; dark blue-gray, platy.*	2.4'	
	CROUSE LIMESTONE	85R Shale; blue-gray, platy, limy.*	0.8'	14.8'±
		86R Limestone; light gray, blocky, weathers nodular.	0.9'	
		87R Shale; green, platy.*	0.3'	
		88R Limestone; light gray, platy, irregular.	0.9'	
		89R Shale; green, platy, contains a thin lensing shaly limestone.*	1.3'	
		90R Shale; green, blocky.*	4.8'	
	CROUSE LIMESTONE	91R Shale; maroon, blocky.*	0.4'	14.8'±
		92R Shale; gray-green, blocky.*	4.0'	
		93R Limestone; light gray, blocky.	0.2'	
		94R Shale; dark and light green bands, blocky, limy.	4.1'	
		95R Limestone; buff, impure, nodular.	1.3'	
		96R Limestone; buff, blocky, weathers platy.	1.6'	
	CROUSE LIMESTONE	97R Limestone; buff, platy, shaly.	4.3'	9.8'±
		98R Limestone; buff, blocky.	1.6'	
		99R Shale; green, platy.	0.4'	
		100R Limestone; buff, blocky.	0.6'	

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	SPEISER SHALE	70R Shale; green, platy, contains lensing shale limestone.*	2.2'	20.1'±
		71R Limestone; light gray, blocky.	0.5'	
		72R Shale; light green, blocky, limy.*	1.7'	
		73R Shale; green, blocky.*	1.7'	
		74R Shale; maroon, blocky.*	0.4'	
		75R Shale; green, blocky.*	0.9'	
	BLUE RAPIDS SHALE	76R Shale; maroon, with three green bands, blocky, limy.*	5.2'	14.8'±
		77R Limestone; light gray-green, shaly, nodular.	0.4'	
		78R Shale; green, blocky, limy.*	0.5'	
		79R Shale; maroon, blocky, limy.*	1.6'	
		80R Shale; green, blocky, limy, contains thin impure nodular limy zones.*	2.5'	
		81R Limestone; light green, blocky, weathers platy.	1.3'	
	FUNSTON LIMESTONE	82R Shale; green platy, lower 0.1' is stained brown with ground water.*	1.5'	17.6'±
		83R Limestone; light gray, blocky, weathers platy.	0.6'	
		84R Shale; dark blue-gray, platy.*	2.4'	
		85R Shale; blue-gray, platy, limy.*	0.8'	
		86R Limestone; light gray, blocky, weathers nodular.	0.9'	
		87R Shale; green, platy.*	0.3'	
	BLUE RAPIDS SHALE	88R Limestone; light gray, platy, irregular.	0.9'	14.8'±
		89R Shale; green, platy, contains a thin lensing shaly limestone.*	1.3'	
		90R Shale; green, blocky.*	4.8'	
		91R Shale; maroon, blocky.*	0.4'	
		92R Shale; gray-green, blocky.*	4.0'	
		93R Limestone; light gray, blocky.	0.2'	
	CROUSE LIMESTONE	94R Shale; dark and light green bands, blocky, limy.	4.1'	9.8'±
		95R Limestone; buff, impure, nodular.	1.3'	
		96R Limestone; buff, blocky, weathers platy.	1.6'	
		97R Limestone; buff, platy, shaly.	4.3'	
		98R Limestone; buff, blocky.	1.6'	
		99R Shale; green, platy.	0.4'	
	CROUSE LIMESTONE	100R Limestone; buff, blocky.	0.6'	9.8'±