

SYMBOL	MEMBER	DESCRIPTION	THICKNESS
<b>PERMIAN SYSTEM</b>			
	SOIL		
	MANTLE	1C Soil Mantle-top soil, clay, silt and alluvium. Sandy in spots and some gravel.	0 to 150"
	MORRILL LIMESTONE	2D Limestone-grey, weathers buff, shaly, irregular.	1.7'
	FLORENA SHALE	3D Shale-grey-green, platy, limy.*	3.9'
	COTTONWOOD LIMESTONE	4D Limestone-grey, weathers buff, dense, blocky, contains a few chert nodules. 5D Same as *4.	2.6' 3.0'
	ESKRIDGE	6D Shale-light-green, weathers tan-grey, blocky.*	2.0'
		7D Shale-light-green, weathers dark-green, blocky.*	1.3'
		8D Shale-mottled maroon and green, platy.*	4.4'
		9D Shale-light-green, weathers light-grey, very platy.*	3.6'
		10D Shale-grey, limy, hard.*	0.6'
		11D Shale-green, blocky, limy.*	6.0'
		12D Limestone-lithographic, porcellaneous glaze.	0.4'
		13D Shale-green, blocky.*	1.6'
		14D Shale-maroon, blocky.*	2.5'
		15D Shale-green, blocky, limy.*	0.7'
	16D Shale-dark maroon, blocky.*	1.4'	
	17D Shale-maroon and green banded, contains several thin limy zones.*	7.6'	
	18D Shale-green, blocky, limy.*	1.7'	
	NEVA	19D Limestone-buff, massive, solution channeled	9.2'
	LIMESTONE	20D Shale-green, limy, blocky.*	6.9'
		21D Limestone-buff, blocky, algal.	1.4'
		SALEM POINT SHALE	22D Shale-green, limy, blocky.*
	BURR LIMESTONE	23D Limestone-buff, platy, iron stained, upper 0.1' is an ostracod zone.	3.2'
		24D Shale-black, fissile.*	1.4'
		25D Limestone-buff, blocky, fossiliferous.	1.7'
	LEGION SHALE	26D Shale-green, blocky, contains an impure solution pitted limestone.*	0.8'
	SALLYARDS LIMESTONE	27D Limestone-buff, blocky.	1.7'
	ROCA	28D Shale-green, blocky, limy, platy.*	4.1'
	SHALE	29D Shale-green, calcareous.*	0.8'

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SYMBOL	MEMBER	DESCRIPTION	THICKNESS
	ROCA	30D Shale-grey to green, platy to blocky.*	1.6'
		31D Shale-light bluish-green, limy.*	4.8'
	SHALE	32D Shale-green with maroon mottling, platy.*	0.7'
		33D Limestone-buff, argillaceous, fissile.*	0.6'
		34D Shale-maroon and green, blocky.*	0.9'
		35D Limestone-buff, argillaceous, impure, blocky.	1.0'
		36D Shale-green with 0.6' maroon zone, calcareous, platy to blocky.*	6.8'
	HOWE LIMESTONE	37D Limestone-buff, massive, fossiliferous.	1.6'
		38D Shale-brown, calcareous, locally contains limestone.*	0.8'
		39D Limestone-buff	1.1'
		40D Shale-green.*	1.0'
<b>PENNSYLVANIAN SYSTEM</b>			
	BROWNSVILLE LIMESTONE	41D Limestone-light brown, blocky 42D Shale-blue-grey, weathers tan.* 43D Limestone-grey, weathers light brown, platy.	2.2' 0.3' 1.5'
	PONY	44D Shale-grey-green, blocky.*	4.8'
		45D Limestone-brown, shaly, nodular.	0.9'
	CREEK	46D Shale-maroon mottled with green, sandy.*	4.9'
		47D Sandstone lenses.*	0.1'
		48D Shale-blue-grey, platy.*	0.2'
		49D Limestone-brown, upper portion impure.	2.2'
		50D Shale-maroon and green, blocky.*	6.2'
	NEBRASKA CITY LS.	51D Limestone-light-grey, slightly sandy.	0.6'
		52D Shale-green, platy, sandy.*	4.5'
	FRENCH	53D Limestone-light brown, platy.	1.8'
	CREEK	54D Shale-green, platy, contains thin sandstone stringers.*	0.4'
		55D Lignite-black irregular	0.6'
		56D Shale-grey-green, contains very thin sandstone stringers, platy.*	4.0'
		57C Lignite-block	0.2'
	JIM CREEK LIMESTONE	61D Limestone-grey, blocky, lower portion impure.	1.2'
	FRIEDRICH	62D Shale-green, blocky, slightly sandy.*	2.8'
		63D Sandstone-light brown, lenticular.*	0.4'
	SHALE	64D Sandstone-light grey, shaly.*	1.3'
		65D Sandstone-light brown, micaceous.*	0.8'

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SYMBOL	MEMBER	DESCRIPTION	THICKNESS
	FRIEDRICH	66D Sandstone-light grey-green, very shaly, contains lensing pure sandstone.*	2.8'
		67D Shale-green and maroon, sandy.*	15.2'
		68D Limestone-light grey, blocky.	0.6'
		69D Shale-light grey, platy.*	0.4'
		70D Limestone-light grey, blocky.	1.2'
		71D Shale-light green, platy.*	0.9'
		72D Limestone-light grey, nodular.	2.3'
		73D Shale-green, blocky.*	2.7'
		74D Shale-maroon, blocky.*	2.9'
		75D Shale-green, blocky.*	23.8'
	DOVER LIMESTONE	76D Limestone-grey, weathers buff, blocky.	2.7'
	LANGDON	77D Shale-fissile, lignitic, blocky.*	3.0'
		78D Sandstone-argillaceous.*	3.7'
		79D Shale-platy, blocky, lignitic.*	2.8'
		80D Limestone-argillaceous, lower portion impure.	0.9'
		81D Shale-green, blocky, calcareous.*	1.7'
		82D Limestone-parting in center, slightly argillaceous.	2.5'
		83D Shale-blue-grey, blocky.*	3.0'
		84D Shale-light grey-brown, slightly arenaceous.*	0.9'
		85D Sandstone-light greyish brown, argillaceous, micaceous.*	2.1'
		86D Alternating bands of grey shale and sandstone with a very few thin zones of lignite.*	2.8'
		87D Sandstone-brown, impure.*	0.8'
		88D Alternating bands of grey shale and sandstone with a few very thin lignites.*	0.8'
		89D Sandstone-light greyish brown, with laminations of grey shale, very micaceous.*	2.4'
		90D Shale-blue-grey, blocky, very sandy, micaceous, ferruginous. Lower 2.0' is a blue-black platy shale, argillaceous.*	34.9'
	MAPLE	91D Limestone-grey, weathers brownish-grey.	2.0'
		92D Shale-blue-grey, platy.*	2.8'
		93D Limestone-blue-grey, weathers brown, nodular.	0.5'
	HILL	94D Shale-blue weathering to brown, clayey, platy.*	8.2'
	LIMESTONE	95D Limestone-blue-grey, blocky.	1.6'
		96D Shale-bluish-grey to green, platy.*	3.8'

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SYMBOL	MEMBER	DESCRIPTION	THICKNESS	
	MAPLE	97D Limestone-grey, weathers buff, blocky, argillaceous, contains 3 partings.	2.0'	
	HILL	98D Shale-blue-grey, weathers buff, platy.*	1.9'	
	LIMESTONE	99D Limestone-blue-grey, weathers buff.	0.5'	
		100D Shale-same as *98.	2.2'	
		101D Limestone-grey, weathers tan, dense, blocky, contains 4 partings.	2.5'	
	PIERSON	102D Shale-blue-grey, platy.*	0.8'	
		103D Sandstone.*	0.2'	
		104D Shale-blue-black, platy.*	0.4'	
		105D Limestone-blue, dense, lithographic.	0.6'	
		106D Shale-blue-grey, platy, somewhat clayey.*	5.7'	
		107D Limestone-blue-grey, weathers buff, variable calcareous shale center, fossiliferous.	1.0'	
		108-R Shale, blue, black, blocky.*	0.5'	
		109-R Shale, grey, blocky, slightly calcareous to very calcareous.*	4.5'	
		POINT		
		SHALE	110-R Shale blue-grey, blocky.*	14.0'
		111-R Limestone brown, weathers buff, dense.	0.4'	
		112-R Shale, brown, arenaceous.*	0.4'	
		113-R Limestone, brown, weathers buff, arenaceous.	0.3'	
		114-R Shale, blue-black, platy.*	0.5'	
		115-R Limestone, brown, slightly impure.	0.7'	
		116-R Shale, grey-green, blocky, clayey.	2.3'	
		117-R Limestone, blue-grey, blocky, fossiliferous.	0.8'	
		118-R Shale, green, blocky.*	0.6'	
		119-R Shale, maroon, blocky.*	1.0'	

**GEOLOGICAL COLUMNAR SECTION**  
Scale 1" = 5 ft.

\* Common where weathered (See Cross Sections)

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

STATE HIGHWAY COMMISSION OF KANSAS

**PLAN AND PROFILE**  
**POTTAWATOMIE CO.**

PROJ. 63-75- S 145 (5)

SHEET NO.	OF	SCALE	APP'D
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.