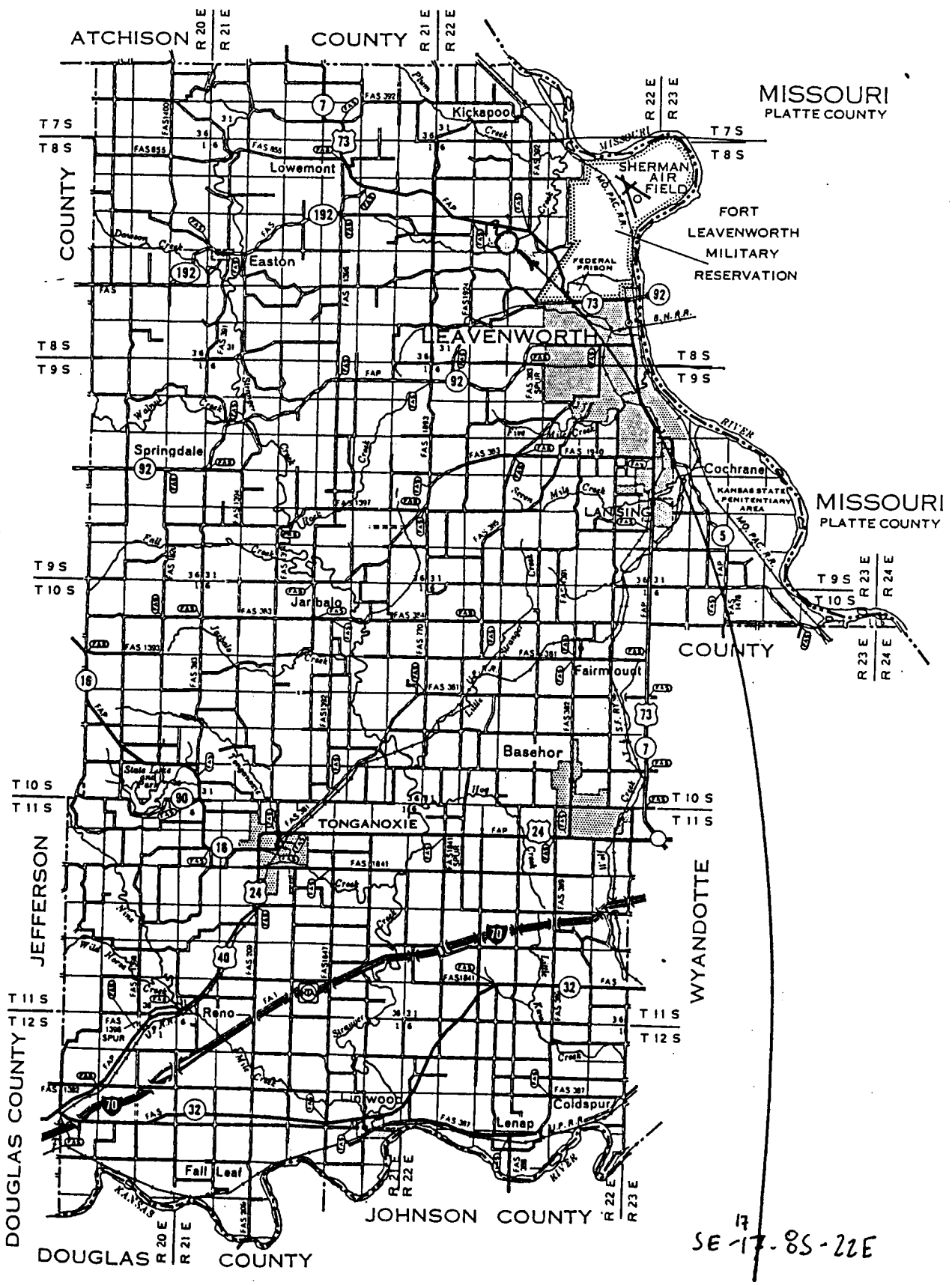

BRIDGE FOUNDATION GEOLOGY REPORT
73-52 K 1875-01
US-73 over Salt Creek
Br. No. 12.61

Leavenworth County

1972

ROUTE NO. 73 SOUNDING NO. 1 SHEET 1 OF 4

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Leavenworth PROJECT NO. 73-52-K-1875-01 BRIDGE NO. 12.61

DESCRIPTION U.S. 73 over Salt Crk. STA. 151+46

GEOLOGIST D. L. Thompson VERTICAL SCALE 1" = 5' DATE 5-21-87

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS CD# 1 Sta. 150+30 ℄ (Standard Penetration)	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
				0'	812.5				
					810				
					805				
				10'		Start Test	802.5		
				11.5'		#1 10°-10.5° 1 blow 10.5°-11° 3 blows 11°-11.5° 4 blows Clay, silty, tan, much organic material	801.0	#1	
					806		797.5		
				15'					
				16.5'		#2 15°-15.5° 1 blow 15.5°-16° 2 blows 16°-16.5° 2 blows Clay, silty, brown	796.0	#2	
					795		792.5		
				20'					
				21.5'		#3 20°-20.5° 1 blow 20.5°-21° 2 blows 21°-21.5° 2 blows Clay, silty, brown	791.0	#3	
	Soil Mantle				790		787.5		
				25'					
				26.5'		#4 25°-25.5° 1 blow 25.5°-26° 1 blow 26°-26.5° 1 blow Very soft, silt, gray, some clay	786.0	#4	
					785		782.5		
				30'					
				31.5'		#5 30°-35.5° 1 blow 35.5°-31° 1 blow 31°-31.5° 1 blow Silt & sugar sand, very soft	781	#5	
					780		777.5		
				35'					
				36.5'			776.0	#6	

ROUTE NO. 73 SOUNDING NO. 1 SHEET 2 OF 4

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Leavenworth PROJECT NO. 73-52-K-1875-01 BRIDGE NO. 12.61

DESCRIPTION US 73 over Salt Crk STA. 151+46

GEOLOGIST D. L. Thompson VERTICAL SCALE 1" = 5' DATE 5-21-87

BIT TYPE & NO. | GEOLOGIC NAME | GEOLOGIC COLUMN | GROUNDWATER ELEVATION | DEPTH | ELEVATION | GEOLOGIC DESCRIPTION AND REMARKS

CD #1 Sta. 150+30 E

(Standard Penetration)

UNCONFINED COMPRESSION | STANDARD PENETRATION OR CASING DRIVE: BLOWS | ELEV.

35

36.5

775

#6 35°-35.5 1 blow
35.5-36° 2 blows
36°-36.5 3 blows
Clay, brown-gray, silty

771.5

776.0

#6

40.0

41.5

770

#7 40°-40.5 1
40.5-41° 1
41°-41.5 1
very soft, silt, Fine sand to light gravel

772.5

771.0

#7

45.0

46.5

765

#8 45°-45.5 2 blows
45.5-46° 3 blows
46°-46.5 4 blows
Clay, gray, silty, few erratics

767.5

766.0

#8

50.0

51.5

760

#9 50°-50.5 2 blows
50.5-51° 3 blows
51°-51.5 4 blows
Clay, gray, silty

762.5

761.0

#9

55.0

56.5

755

#10 55°-55.5 1 blow
55.5-56° 3 blows
56°-56.5 6 blows

757.5

756.0

#10

57.4

754.9 Sand, med. to Fine to gravel, some clay

Shale, gray, clayey, weathered

Soil Mantle

Vinland Mbr.

1

2

3

61.3

751.2

Shale, gray, Firm

750

67.0

745.5

745

Shale, gray, Firm, occasional thin siltstone nodule, sandy

70.3

742.2

Sandstone, gray

741.3

Shale, dark gray

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Leavenworth PROJECT NO. 73-52-K-1875-01 BRIDGE NO. 12.61

DESCRIPTION US 73 over Salt Crk. STA. 151+46

GEOLOGIST D.L. Thompson VERTICAL SCALE 1" = 5' DATE 05-21-87

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS CD# 1 Sta. 150+30 ℄	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
	Vinland Mbr.	1, 2, 3		70^3		Shale, gray, Firm, with occasional thin siltstone nodule.			
					742.2 ✓	Sandstone gray			
				71^9	740.6 ✓	Shale, dark gray			
	Iatan Member	4		75^0	740	Limestone, light gray, impure			
					737.5 ✓				
				76^2	736.3 ✓	Shale, gray, clayey to limy			
		5			735	Limestone, light gray, earthy to impure			
		6			730				
				86^2	726.3 ✓				
					725	Core Descriptions			

Core# 1 59^2-62° Cut 2^8 Recov. 2^8

59^2-61^3 - Shale, gray, clayey

61^3-62° - Shale, gray, Firm

RQD = 86%

Sample # 1 60'-60^7

Sample # 2 61^3-62°

Core# 2 62°-67° Cut 5° Recov. 5°

62°-67° - Shale, gray, Firm

RQD = 64%

Sample # 3 63^2-63^{65}

Core # 3 67°-71^9 Cut 4^9 Recov. 4^9

67°-67' Siltstone

67'-70^3 Shale, gray, sandy with occasional siltstone nodule.

70^3-71^2 Sandstone, gray

71^2-71^9 Shale, dark gray

RQD = 88%

Sample # 4 68°-68^7 Sample #5 70^9-71^2

ROUTE NO. 73 SOUNDING NO. 1 SHEET 4 OF 4

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Leavenworth PROJECT NO. 73-52-k-1875-01 BRIDGE NO. 12.61

DESCRIPTION US 73 over Salt Crk. STA. 151+46

GEOLOGIST D.L. Thompson VERTICAL SCALE NA DATE 5-21-87

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS CD#1 Stn. 150+30 ℄ Core Descriptions	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
						Core # 4 71^9 - 76^7 Cut 4^8 Recov. 4^7 71^9 - 75^0 Limestone, light gray, impure 75^0 - 76^2 Shale, gray, clayey to limy 76^2 - 76^6 Limestone, earthy RQD = 82% Sample # 6 73^4 - 74^{35}			
						Core # 5 76^7 - 81^6 Cut 4^9 Recov. 4^9 76^7 - 81^6 Limestone, light gray, earthy to impure RQD = 84% Sample # 7 77^7 - 78^{75}			
						Core # 6 81^6 - 86^2 Cut 4^6 Recov. 4^6 81^6 - 86^2 Limestone, light gray, earthy, some thine shale breaks RQD = 85% Sample # 8 82^8 - 83^3			