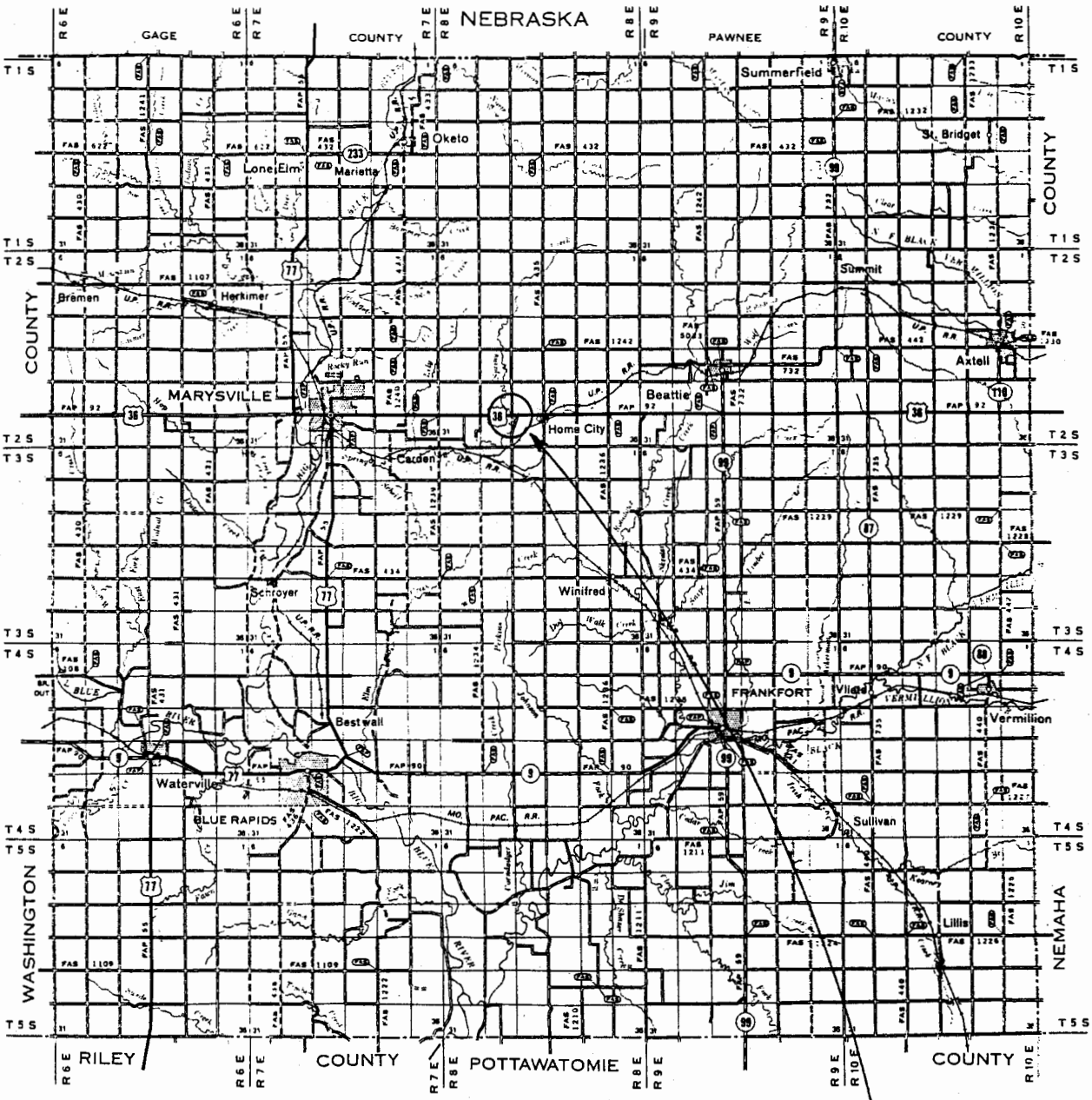

Proj. No. 36-58 K-2066-01
Br.No. 36-58-14.17
Spring Creek
Sta.283+23
Marshall County

KANSAS DEPARTMENT OF TRANSPORTATION
PLANNING AND DEVELOPMENT DEPARTMENT
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

1979

LEGEND

ROADS AND ROADWAY FEATURES

- PRIMITIVE ROAD
- UNIMPROVED ROAD
- GRADED AND DRAINED ROAD
- SOIL SURFACED ROAD
- GRAVEL OR STONE ROAD—NOT GRADED OR DRAINED
- GRAVEL OR STONE ROAD—GRADED AND DRAINED
- GRAVEL OR STONE ROAD WITH STABILIZED SURFACE
- BITUMINOUS ROAD—LOW TYPE
- PAVED ROAD
- DIVIDED HIGHWAY
- HIGHWAY WITH FULL CONTROL OF ACCESS AND INTERCHANGE

ROAD SYSTEM DESIGNATION

- FEDERAL-AID INTERSTATE HIGHWAY SYSTEM
- FEDERAL-AID PRIMARY HIGHWAY SYSTEM
- FEDERAL-AID SECONDARY HIGHWAY SYSTEM
- INTERSTATE NUMBERED HIGHWAY
- U S NUMBERED HIGHWAY
- STATE HIGHWAY SYSTEM OR STATE NUMBERED HIGHWAY
- END OF DESIGNATED SYSTEM OR MARKED ROUTE

KEY TO COUNTIES

F.A. SYSTEMS REVISED FEBRUARY 1, 1981

51

NW NW NW 33-2-8E

2CEØ V

ROUTE NO. 36 SOUNDING NO. 1 SHEET 1 OF 2

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Marshall PROJECT NO. 36-58-K-2066-01 BRIDGE NO. 14.17

DESCRIPTION U.S. 36 over Spring Crk. STA. 283+23

GEOLOGIST D.L. Thompson VERTICAL SCALE 1" = 5' DATE 6-7-91

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS Core Drill #1 Sta. 283+97, 53 Rt	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV.
				0°		1262.5			
	Soil Mantle				1260	Clay, silty, dark brown			
					1255				
					1250				
				16.4	1245	1246.1			
					1240				
				27°		1235.5			
				27.8	1235	1234.7 Rubble, heavy			
						Clay, silty to sandy			
				31.4		1231.1			
	Blue Springs Mbr.				1230	Gravel, heavy			
				36'		1226.4			
						Shale, maroon, very weathered			

ROUTE NO. 36 SOUNDING NO. 1 SHEET 2 OF 3

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Marshall PROJECT NO. 36-58-K-2066-01 BRIDGE NO. 14.17

DESCRIPTION U.S. 36 over Spring Crk. STA. 283+83

GEOLOGIST D.L. Thompson VERTICAL SCALE 1" = 5' DATE 6-7-91

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS Core Drill # 1 Sta. 283+97, 53 Rt	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV.
	Soil Mantle			36'	1226.4				
	Blue Springs Mbr.	1			1225	Shale, maroon to olive, weathered, occassional thin limy zone.			
		1			1220				
		2		48°	1215	1214.5			
						Shale, gray, firm			
		3		51'	1210.6				
				53°	1210	1209.5 Limestone, light gray, impure			
						Shale, gray, very calcarious			
		4		58'	1205	1204.4			
	Kinney Mbr.	5				Limestone, very shaly, impure			
				60'		1202.2			
					1200	Shale, gray, very firm, calcarious			
				64°		1198.2 Limestone 1198.5			
	Wymore Mbr.	6				Shale, olive to maroon calcarious, some gyp nodules and stringers			
					1195				
		7							

ROUTE NO. 36 SOUNDING NO. 1 SHEET 3 OF 4

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Marshall PROJECT NO. 36-58-K2066-01 BRIDGE NO. 14.17

DESCRIPTION U.S. 36 over Spring Crk. STA. 283+83

GEOLOGIST D. L. Thompson VERTICAL SCALE 1" = 5' DATE 6-7-91

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS Core Drill #1 Sta. 283+97, 53 Rt	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV.
	Wymore Mbr.				1190	Shale, olive to marron, calcarious, some gyp nodules and stringers noted.			
				77.2	1185	1185.2 TD			
						Core Descriptions Core #1 38.2-43.0, Cored 4.8, Recov. 4.8 38.2-38.7 Shale, brown, very weathered 38.7-42.5 - Shale, olive to brown, weathered 42.5-42.8 - Limestone, light gray Sample #1 41.4-42.0 - Shale, olive RQD = 54.2 %			
						Core #2 43.0-48.0, Cored 5.0, Recov. 3.7 43.0-44.3 - Lost Ground away 44.3-47.2 Shale, olive to gray, weathered 47.2-48.0 Shale, gray, clayey Sample #2 47.0-47.2 Shale, olive RQD = 54 %			
						Core #3 48.0-53.0, Cored 5.0, Recov. 5.0 48.0-51.9 - Shale, gray, Firm 51.9-53.0 - Limestone, light gray, impure Sample #3 50.6-51.2 - Shale, gray, Firm RQD = 92 %			

(Cont'd)

ROUTE NO. 36 SOUNDING NO. 1 SHEET 4 OF 4

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Marshall PROJECT NO. 36-58-k-2066-01 BRIDGE NO. 14.17

DESCRIPTION U.S. 36 over Spring Crk. STA. 283+83

GEOLOGIST D.L. Thompson VERTICAL SCALE NA DATE 6-7-91

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV.
						Core Descriptions (Cont'd)			
						Core # 4 53°-57⁴, Cored 4⁴, Recov. 4⁴			
						53°-57⁴ Shale, very limy			
						Sample # 4 53⁷-54² Shale, gray			
						Sample # 5 56⁴-57² Shale, gray, limy			
						RQD = 99%			
						Core # 5 57⁴-62⁴, Cored 5°, Recov. 4⁹			
						57⁴-58¹ Shale, very limy, dark gray			
						58¹-60³, Limestone, shaly to impure			
						60³-62³ Shale, gray			
						Sample # 6 58°-58⁷ - Limestone			
						Sample # 7 61⁷-62³ - Shale, gray			
						RQD = 92%			
						Core # 6, 62⁴-67³, Cored 4⁹, Recov. 4⁹			
						62⁴-63⁸ - Shale, gray			
						63⁸-64° Limestone			
						64°-67³ Shale, olive, limy			
						Sample # 8 - 64°-64⁵ - Shale, olive			
						RQD = 77.6%			
						Core # 7, 67³-72³, Cored 5° Recov. 4⁶			
						67³-70⁷ - Shale, olive to marron, limy			
						70⁷-71⁹ - Shale, olive, limy, with gyp nodules			
						Sample # 9 69°-69⁵ - Shale, olive			
						RQD = 80%			
						Core # 8 - 72³-77³, Cored 5° Recov. 5°			
						72³-73⁶ - Shale, olive, limy, with gyp nodules			
						73⁶-77³ - Shale, marron			
						- No sample - Core too chewed up			
						RQD = NA			