

GEOTECHNICAL UNIT
GEOLOGY SECTION

BRIDGE FOUNDATION GEOLOGY REPORT

116-3K-5081-02
Br. No. 06.30

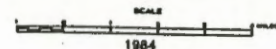
C-52 - 24 - 75 - 17E

K-116 over Coal Creek

ATCHISON COUNTY

GENERAL HIGHWAY MAP
ATCHISON COUNTY
KANSAS

PREPARED BY THE
KANSAS DEPARTMENT OF TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



K 5081

99.2

Core Description

Core # 1 38⁷ - 42³, Cut 3.6, Recov. 3⁶38⁷ - 40⁷ Limestone, H gray, mud lm, shaly
numerous Fossil Fragments40⁷ - 42³ Shale, dark gray, clayey - high
RQD = $1.0 / 3.6 = 28\%$ Core # 2 42³ - 47², Cut 5.0, Recov. 5.042³ - 42⁹ - Shale, light gray, slightly limy42⁹ - 46⁰ Shale, dark gray, clayey, high in46⁰ - 47³ - Limestone, hard, denseRQD = $4.6 / 5.0 = 92\%$ Core # 3 47² - 52³ Cut 5.0 Recov. 5.047² - 48³⁵ Limestone, hard, dense48³⁵ - 49⁶ Shale, dark gray to black, Firm49⁶ - 50⁵ Sh, black? clayey50⁵ - 50⁸⁵ Coal50⁸⁵ - 52³ Shale, dark gray to blackRQD = $4.0 / 5.0 = 90\%$ Core # 4 52³ - 57³ Cut 5.0 Recov. 5.052³ - 53⁶ Shale, dark gray, sandy53⁶ - 57³ Sandstone, dark gray, highRQD = $2.6 / 5.0 = 52\%$

in organics + Plant Fossil

organics, - lower ³⁵ limy

In organics, some x-bedding

K5081

Core # 5, 57³-62³, Cut 5°, Recov. 5°

Sandstone, dark gray, massive, few shale
partings minor x-bedding

$$RQD = 4.4 / 5.0 = 88\%$$

Core # 6 62³-67³ - Same as above, more

organic material

$$RQD = 4.8 / 5.0 = 96\%$$