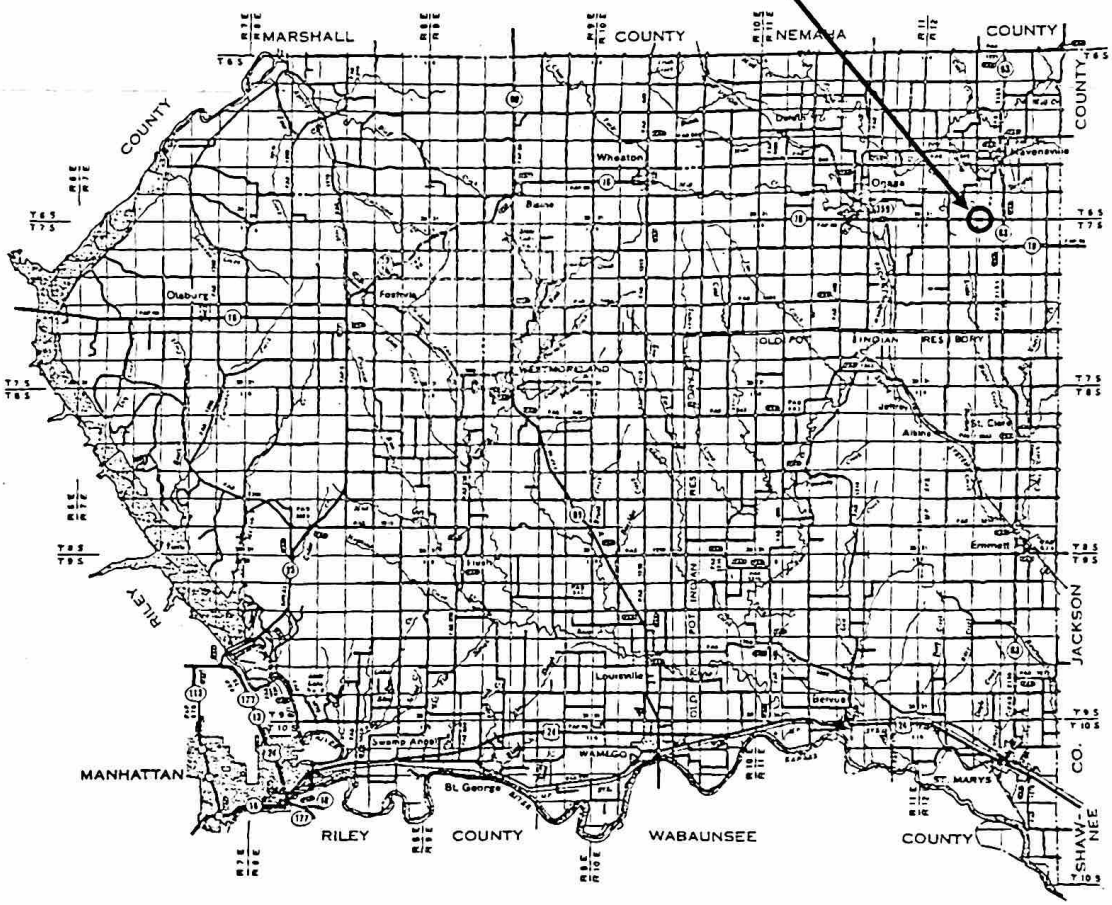
16-75 K-7428-01
K-16 over Spring Creek
Bridge No. 16-75-37.34(058)



Pottawatomie County

gaw 5-8-06

KANSAS DEPARTMENT OF TRANSPORTATION

RTE/CO. 16/75	SOUNDING NO. CD 2	SHEET OF 1 of 1
BRIDGE STA	PROJ. NO. K-7428-01	BRIDGE NO.
SITE NAME K-16 Bridge over Spring Creek		HOLE STA 10+609.15, 19m Lt
GEOLOGIST David Schmidt	SCALE: 1:100 (10mm = 1 Meter)	DATE 1/28/04
DRILLER Rob Vervynck	RIG TYPE	TOP HOLE ELEV. 371.859
GROUNDWATER ELEV	TOTAL DEPTH 9.81 m	M/B ELEV. 366.07

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV
				371.859				
				371	Mantle			371
				370		506 kPa		370
				369				369
				368				368
				367		78 kPa		367
			5.79	366	366.07			366
			6.37		Shale, grey-darkgrey. Slightly wavy-bedded 365.49			
			7.14	365	Limestone, bluish-grey, wavy bedded, argillaceous especially at top, fossil clasts. 364.72	24795 kPa (258.9 tsf)		365
			8.32	364	Limey shale, grey, calcareous, swelling, argillaceous, soft. 363.54			364
			8.81		Limestone, light grey, wavy-bedded, pebbly, broken 363.05 Large fusulinids at the base.			
			9.81	362	Shale, blue-green, crumbly, limey, pebbly, sand. 362.05 SIS	385 kPa (4.0 tsf)		362
				361				361
				360				360
				359				359
				358				358
				357				357
				356				356

SYMBOL	MEMBER	FM.		DESCRIPTION	THICKNESS (m)	
			1	Soil Mantle, silty-clay residual and alluvial		0-3.4
	Eiss Ls	Bader Ls	2	Limestone, shaly		0.5
		Shearns Shale	3	Shale, limy		6.9
	Morrill Ls		4	Limestone	0.2	
	Florena Shale	Beattie Limestone	5	Shale, olive, limy	2.5	
	Cottonwood Limestone		6	Limestone, massive, cherty	1.8	4.5
		Estridge Shale	7	Shale, varicolored with gray and gray-green and maroon colors. Numerous thin limestones occur throughout the unit A persistant limestone bed 0.5-0.6 m thick is found near the base		7.5+

SYMBOL	MEMBER	FM.		DESCRIPTION	THICKNESS (m)	
	Neva Limestone	Grenola Limestone	8	Two limestones separated by a limy shale containing thin, discontinuous limestone beds	4.1-5.0	
	Salem Point Shale		9	Shale, olive gray	2.56	
	Burr Limestone		10	Two limestones separated by a shale layer	2.6	
	Legion Shale		11	Shale, dark gray to gray	1.0	
	Sallyards		12	Limestone, gray	0.4	10.36-11.56
		Roca Shale	13	Shale, blue-gray to green-gray, limy		7.0+

FINAL REVISION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
1	KANSAS	16-75 K-7428-01	19		

- Division between soil mantle & bedrock
- Change in type material within a unit
- Division between geologic members or formations.
- Division between rock and common material

Elevation of groundwater
Fm. - Formation
Mbr. - Member

NOTE:

Bedrock and soil mantle which occur on this project are shown with appropriate symbols on the plan profile and cross-sections for the project. A geology report is available which includes Geologic Section, Geology of the Project and additional information pertaining to the General Engineering Geology Recommendations.

ICES ROADS GEOLOGY ABBREVIATIONS

Soil Mantle	MANTLE
Common Excavation	C
Rock Excavation	R
Durable Rock Shale	D
Non-Durable Rock Shale	N
Eiss Limestone Member	EISS
Shearns Formation	SRNS
Morrill Limestone Member	MRRL
Florena Shale Member	FLRN
Cottonwood Limestone Member	CTTN
Estridge Shale Member	EKDG
Neva Limestone Member	NEVA
Salem Point Shale Member	SLMP
Burr Limestone Member	BURR
Legion Shale Member	LGON
Sallyards Limestone Member	SLRD
Roca Formation	ROCA
LIMESTONE	LS
SHALE	SH

SCALE 1:50

1 Meter

STANDARD GEOLOGIC SYMBOLS

Clay, Caliche, Weathered Shale, Limestone, Sand, Black or Fissile Shale, Siltstone, Sandy Limestone, Silty Clay, Silty Clayey Shale, Sandstone, Cherty Limestone, Gravel, Sandy Shale, Gypsum, Weathered or Broken Limestone, Silt, Limy Shale, Shaly Sandstone, Shaly Limestone, Boulders, Gypsiferous Shale, Coal

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

GENERALIZED GEOLOGIC SECTION

PROJ. NO. 16-75 K-7428-01 Pottawatomie County

SHEET NO.	BY	SCALE	LIMITS		
DESIGNED		INTERIM	QUANTITIES		TRACING
DESIGN CK.		DETAIL CK.	QUANTITIES		TRACING CK.

Plotted By : rocky
Plot File : Z:\7428c.dgn
Plot Date : 4/5/2004
Std. Base File : Rocky Crow
Server File : D:\06105\Geology\7428c.dgn
Server : wich II
View: PLOT1