



KANSAS DEPARTMENT OF TRANSPORTATION

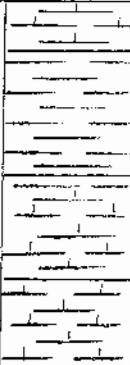
gaw 5-3-06

RTE/CO. 16-75	SOUNDING NO. 01	SHEET OF 1 of 2
BRIDGE STA. 10+606.381	PROJ. NO. K-7428-01	BRIDGE NO. 16-75-37.34 ^(WSS)
SITE NAME K-16 over Spring Creek		HOLE STA. 10+614.85, 2m L + 2 16.
GEOLOGIST Thompson/L.M.M.	SCALE: 1:100 (10mm = 1 Meter)	DATE 2/23/04
DRILLER Jim Burris	RIG TYPE	TOP HOLE ELEV. 373.554
GROUNDWATER ELEV	TOTAL DEPTH 20.45	M/B ELEV. 366.54

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
				373.554				
				373	Mantle, silty clay, brown.			373
				372				372
				371				371
				370				370
				369				369
				368				368
				367				367
			7.01	366.54				
				366	Shale, olive grey.			366
				365				365
			9.20	364.35				
				364	Limestone, light grey, firm, few shale seams, plant debris.	12750 kPa		364
			10.42	363				363
				363.13				
			10.97	362.58	Shale, dark grey to almost black, slightly wavy bedded.	180 kPa		
				362	Limestone, grey, argillaceous, fossil clasts.	31370 kPa		362
			11.80	361.75				
				361	Shale, dark grey at top grading to grey at base, swelling, argillaceous.	550 kPa		361
			12.80	360.75				
			13.20	360.35	Limestone, grey			
				360	Shale, blue-grey, swelling, argillaceous, limy.	22120 kPa 466 kPa 476 kPa		360
				359				359
			14.81	358.74				
				358	Shale, grey, limy, firm.			358

Salem Point Shale Mem.
Burl Limestone Mem.
Burl Limestone Mem.
Roca Shale Formation

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16-75		SOUNDING NO. 1		PROJECT NO. K-7428-01		SHEET OF 2 of 2		
DATE 2/23/04		RTE/CO. 16-75		TOTAL DEPTH 20.45		THE 373.554		
BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
Roca Shale Formation.		16.18	357.37	Shale, olive grey and maroons, argillaceous.	6870 kPa		357	
			357		700 kPa			
			356		1100 kPa		356	
		17.83	355.72	Shale, olive grey to grey to dark grey. Two small limestone stringers. Both less than 0.10 m, limy			355	
			355		13420 kPa			
		19.23	354.32	Shale, olive grey. Slightly wavy bedded, thinly bedded. Thin alternating dark + light olive grey layers. SIS			354	
			354		720 kPa			
		20.45	353.10				353	
			353					
			352				352	



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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, 19mL	
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		50 kPa		370
				369				369
				368				368
				367		78 kPa		367
			5.79	366	366.07			366
			6.37		Shale, grey-dark grey, slightly wavy-bedded			
				365	Limestone, bluish-grey, wavy bedded, argillaceous especially at top, fossil clasts.	24795 kPa (258.9+sf)		365
			7.14					
				364	Limey shale, grey, calcareous, swelling, argillaceous, soft.			364
			8.32					
			8.81		Limestone, light grey, wavy-bedded, pebbly, broken large <i>Favosites</i> at the base.			
					Shale, blue-green, crumbly, limey, pebbly, sand.	385 kPa (4.0+sf)		
			9.81	362	362.05 SIS			362
				361				361
				360				360
				359				359
				358				358
				357				357
				356				356