



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO. 75-89	SOUNDING NO. CD #1	SHEET 1 OF 4
BRIDGE STA. 2+972.328	PROJ. NO. K-6681-01	BRIDGE NO. 75-89-20.89(264) SB 75-89-20.90(265) NB
SITE NAME U.S.-75 over 35 th Street	HOLE STA. 3+000.828, 378	LT &
GEOLOGIST Billinger/Law	SCALE: 1:100 (10mm = 1 Meter)	DATE 11-15-99
DRILLER Vervynck	RIG TYPE Mobile B-b1	TOP HOLE ELEV. 239.29
GROUNDWATER ELEV —	TOTAL DEPTH 23.75 meters	M/B ELEV. 273.85

GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION kPa	STANDARD PENETRATION OR CASING DRIVE	
						BLOWS	ELEV
		0°	293.29				
				Silty clay, red-brown			
		22°	291.99		1040.2	Shelby 1	291.87
			290				
				Silty clay, orangish, some thin lenses of fine sandy silt.			
					128.3	Shelby 2	288.25
			285				
					56.9	Shelby 3	283.82
			280				
					86.6	Shelby 4	279.24
			278				

DATE 11-15-99		SOUNDING NO. CD#1		PROJECT NO. K-6681-01		SHEET 2 OF 4	
RTE./CO. 75-89		TOTAL DEPTH 2375		THE 23929			
BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION KPa	STANDARD PENETRATION OR CASING DRNE
							BLOWS
				278			
				275	Silty clay with some fine sandy silt. orange.		
			1944	27385			
			1987	27342	Shale, dark gray, firm.		
			2080	27249	Limestone, light gray, massive, fossiliferous.		
			2181	27228	Shale, very dark gray, limy.	38448.7	Sample 1
			2212	27117	Limestone, light to medium gray. Two thin shale breaks (271.78-271.87) & (271.58-271.71)		
			2281	27048	Shale, dark gray, firm.		
			2375	26954	Limestone, massive bedded, light gray, fossiliferous.		
				265			

75-89 K-6681-01 US-75 over 35th Street Core Hole #1

CD #1	293.29	0°-0° ⁸²	Silty clay, red-brown.
Sta 31000.828	292.47	0° ⁸² -1° ⁴²	Shelby #1 pushed 0.60 Recov. 0.51
32.8 m Lt ϕ			Silty clay, red-brown
	291 ⁸⁷	1° ⁴² -4° ⁴⁴	Silty clay, orangish
	288 ⁸⁵	4° ⁴⁴ -5° ⁰⁴	Shelby #2 pushed 0.60 Recov. 0.60
			Silty clay, orangish
	288 ²⁵	5° ⁰⁴ -8° ⁹⁷	Silty clay, orangish.
	284 ³²	8° ⁹⁷ -9° ⁴⁷	Shelby #3 pushed 0.50 Recov. 0.50
			Silty clay wet light orange-brown
	283 ⁸²	9° ⁴⁷ -13° ⁵⁵	Silty clay, wet light orange-brown.
	279 ⁷⁴	13° ⁵⁵ -14° ⁰⁵	Shelby #4 pushed 0.50 Recov. 0.56
			Silty clay to sandy silt, wet orangish
	279 ²⁴	14° ⁰⁵ -19° ⁴⁴	Silty clay with sandy silt, wet, orange.
	273 ⁸⁵	19° ⁴⁴ -19° ⁶⁰	Shale, grayish
	273 ⁶⁹	19° ⁶⁰	start coring

Core #1	273 ⁶⁹	19° ⁶⁰ -19° ⁸⁷	Shale, dark gray, very firm.
19° ⁶⁰ -20° ⁷⁷	273 ⁴²	19° ⁸⁷ -20° ⁰⁷	Limestone, dark gray, blocky,
Cut 1° ¹²	273 ²²	20° ⁰⁷ -20° ⁷⁷	Limestone, light gray, massive bedded, ^{abundant} fossils.
Recov. 1° ¹²	272 ⁵²	20° ⁷⁷	End core #1
RQD = 81%			

Sample 1 20°²⁸-20°⁵⁰ Limestone

Core #2	272 ⁵²	20° ⁷⁷ -20° ⁸⁰	Limestone, light gray, massive, fossiliferous.
20° ⁷⁷ -21° ³²	272 ⁴⁹	20° ⁸⁰ -21° ⁰¹	Shale, very dark gray, limy.
Cut 0° ⁶⁰	272 ²⁸	21° ⁰¹ -21° ³³	Limestone, light gray, blocky, thin shaly break @ 21° ¹² . Shaly near bottom.
Recov. 0° ⁵³			lost
RQD = 88%	271 ⁹⁶	21° ³³ -21° ³⁷	End Core #2
	271 ⁹²	21° ³⁷	

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US-75 over 35th Street

CD #1

Core #3

21³⁷ - 22³⁰Cut 0⁹²Recov. 0⁹²

RQD = 100%

271⁹²271⁸⁷271⁷⁸271⁷¹271⁵⁸271¹⁷270⁹⁹21³⁷ - 21⁴²21⁴² - 21⁵¹21⁵¹ - 21⁵⁸21⁵⁸ - 21⁷¹21⁷¹ - 22¹²22¹² - 22³⁰22³⁰

Limestone, light to medium gray, fossiliferous.

Shale, dark gray, limy.

Limestone, medium gray, fossils.

Shale, dark gray, limy.

Limestone, light/medium gray, fossiliferous.

Shale, dark gray.

End Core 3

Core #4

22³⁰ - 23⁷⁵Cut 1⁴⁵Recov. 1⁴⁵

RQD = 100%

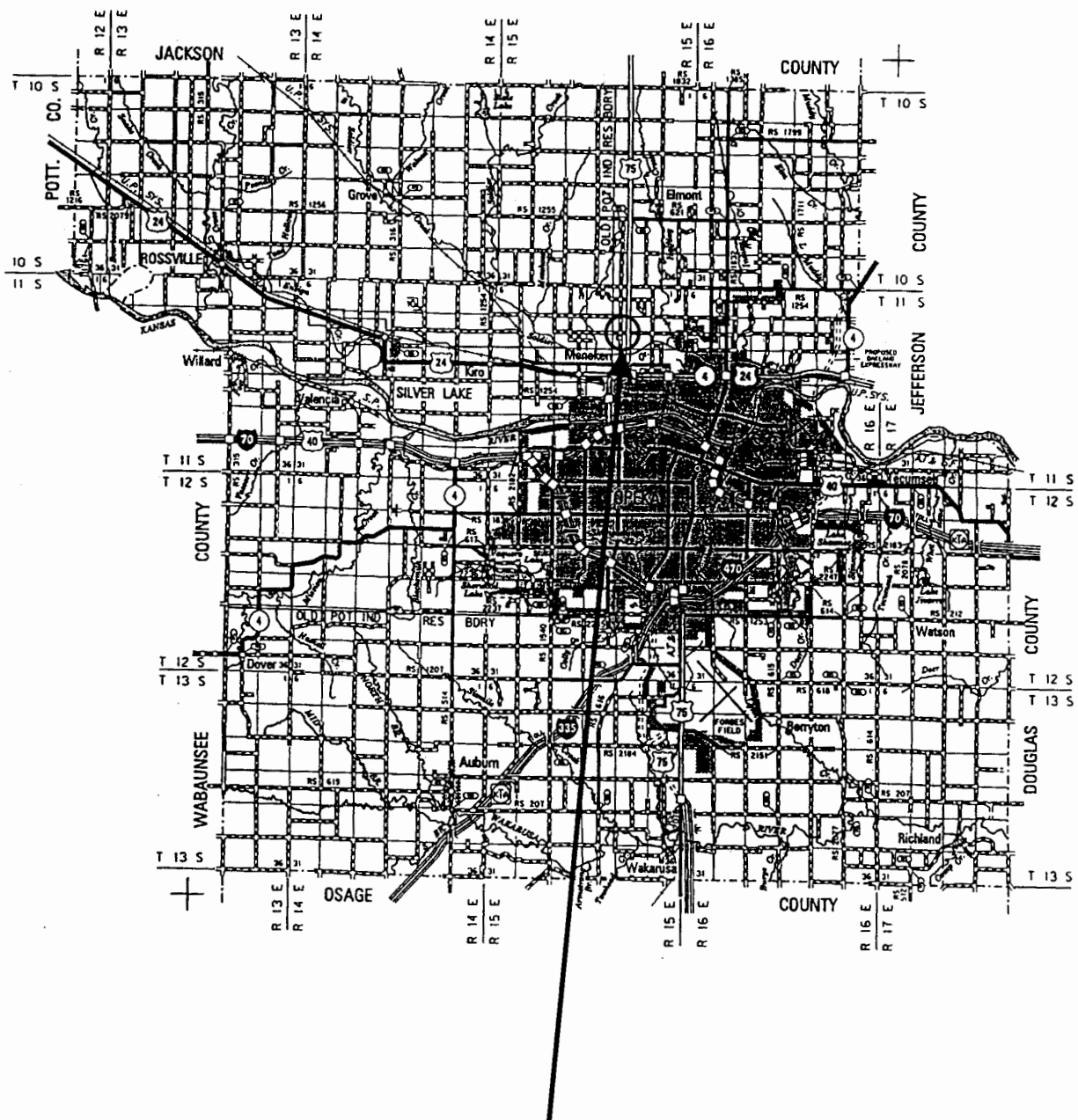
270⁹⁹270⁴⁸269⁵⁴22³⁰ - 22⁸¹22⁸¹ - 23⁷⁵23⁷⁵

Shale, dark gray.

Limestone, unit bedded, light gray, fossiliferous

End Core 4

Total Depth



Project No. 75-89 K-6681-01
U.S.-75 over 35th Street

Shawnee County

T11S R15E

Sec. 11 NW