

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, 37 ⁸ L+E
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

BILLI LILIE

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			
		2 ²⁰	291 ⁰⁹		1040.2	Shelby 1	291 ⁸⁷
			290				
				Silty clay, orangish, some thin lenses of fine sandy silt.			
			285		128.3	Shelby 2	288 ²⁵
			280		56.9	Shelby 3	283 ⁸²
			278		86.6	Shelby 4	279 ²⁴

SOUNDING NO. CD #1

PROJECT NO. K-6681-01

SHEET 2 OF 4

DATE 11-15-99

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	STANDARD PENETRATION OR CASING DRIVE	
							BLows	ELEV
				278		KPa		
				275	Silty clay with some fine sandy silt. orange.			
			19 ⁴⁴	273 ⁸⁵				
			19 ⁸⁷	273 ⁴²	Shale, dark gray, firm.			
			20 ⁸⁰	272 ⁷⁹	Limestone, light gray, massive, fossils.			
			21 ⁸¹	272 ²⁸	Shale, very dark gray, limy.	38448,7	Sample 1	272 ⁷⁹
			22 ¹²	271 ¹⁷	Limestone, light to medium gray. Two thin shale breaks (271.78-271.87) & (271.58-271.71)			
			22 ⁸¹	270 ⁴⁸	Shale, dark gray, firm.			
			23 ⁷⁵	269 ⁵⁴	Limestone, massive bedded, light gray, fossils.			
				265				

White Cloud Mbr.
Utopia Mbr.
Winzeler Mbr.
Church Mbr.

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

CD #1	293.29	0 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 20²⁸ - 20⁵⁰ 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 - 22³⁰

Cut 0⁹²

Recov. 0⁹²

RQD = 100%

271⁹²

271⁸⁷

271⁷⁸

271⁷¹

271⁵⁸

271¹⁷

270⁹⁹

21³⁷ - 21⁴²

21⁴² - 21⁵¹

21⁵¹ - 21⁵⁸

21⁵⁸ - 21⁷¹

21⁷¹ - 22¹²

22¹² - 22³⁰

22³⁰

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 - 23⁷⁵

Cut 1⁴⁵

Recov. 1⁴⁵

RQD = 100%

270⁹⁹

270⁴⁸

269⁵⁴

22³⁰ - 22⁸¹

22⁸¹ - 23⁷⁵

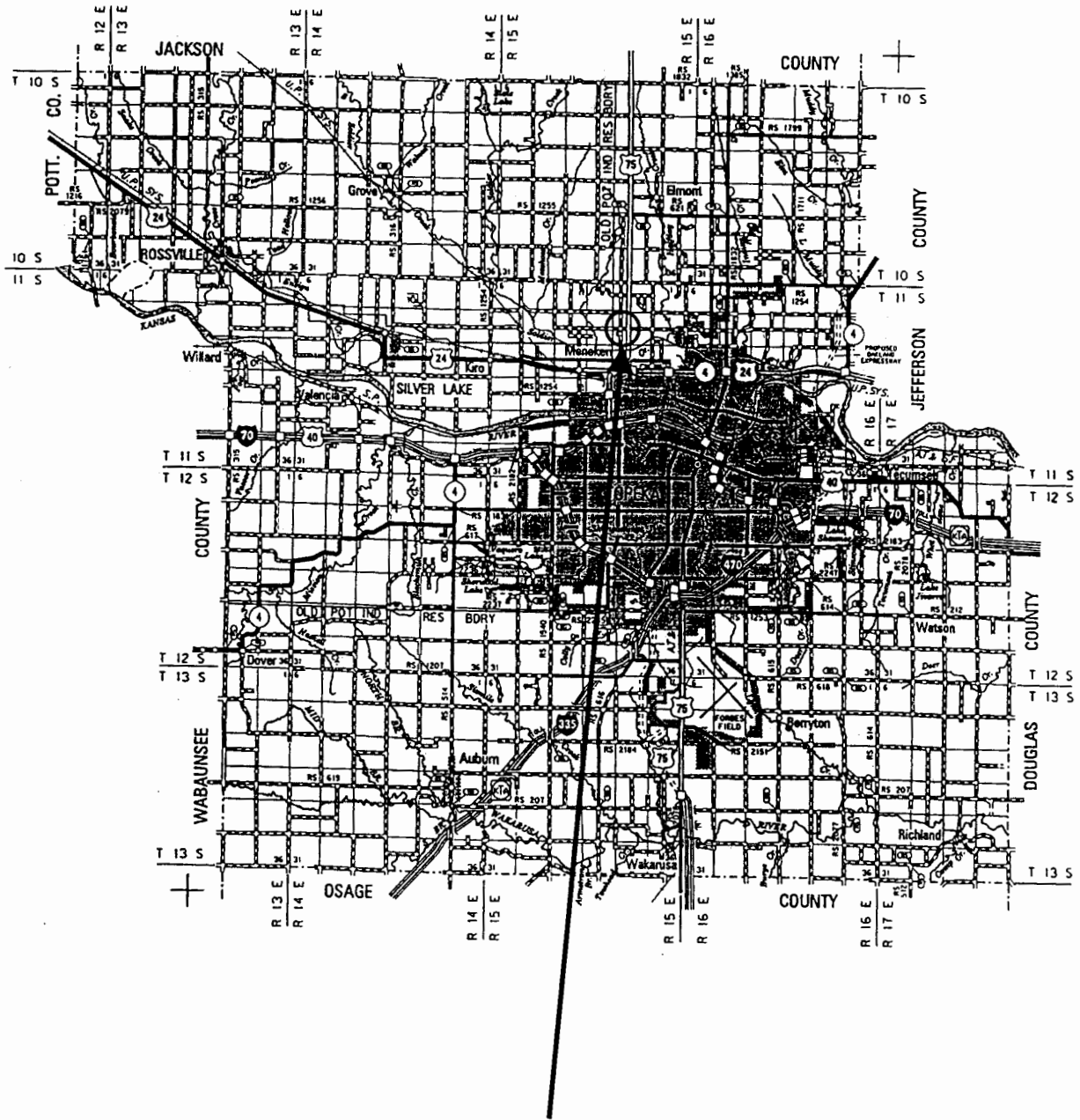
23⁷⁵

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