KA-2100-01 Roe Ave. over I-435

Overland Park, Johnson County

CD 03

N: 38.933160 E: -94.639336 (Approximate)

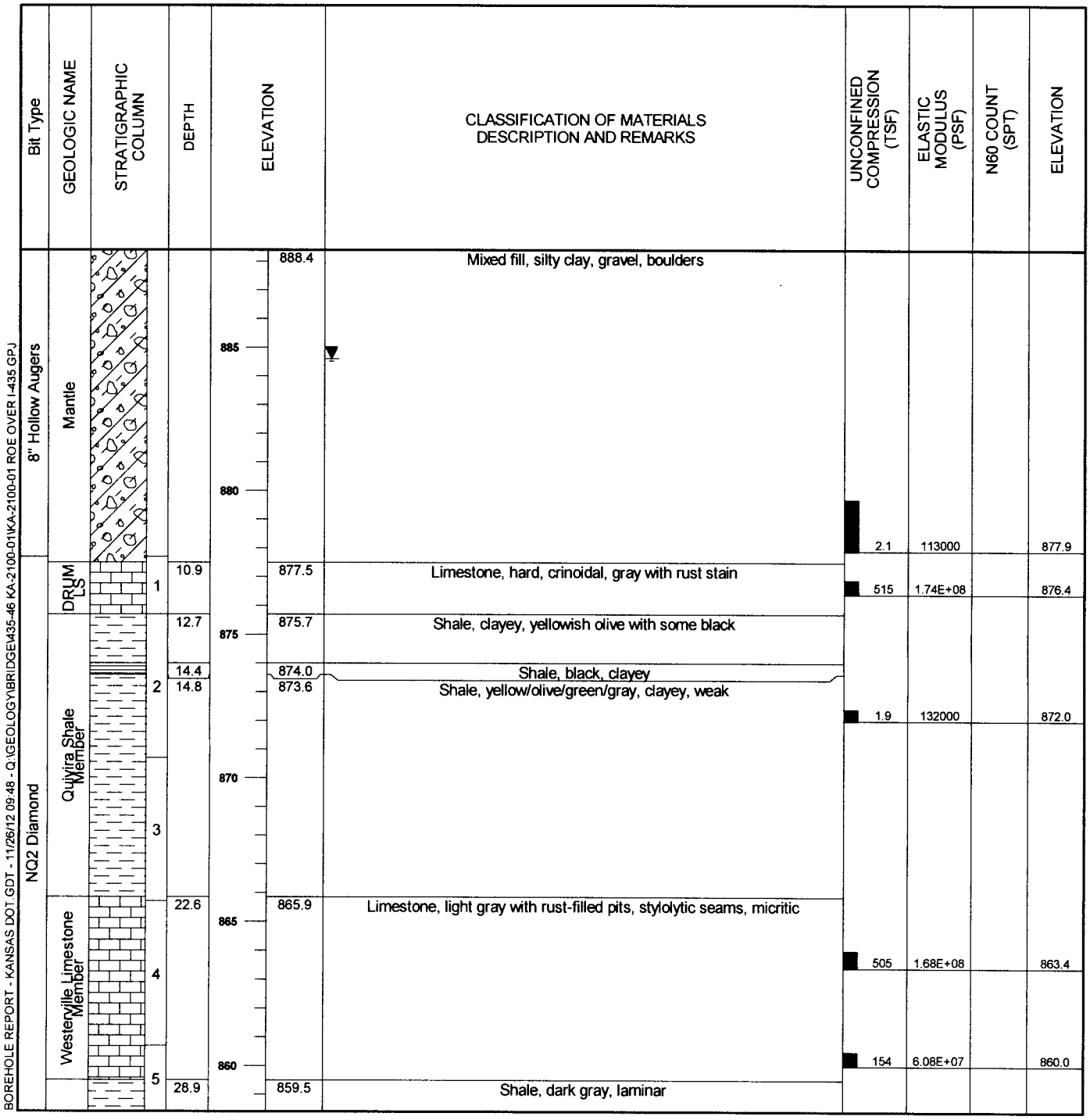
NE ¼, SW ¼, Section 9, T13S, R25E

10/21/2012

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 03	SHEET 1 of 3	
BRIDGE STA.	370+83.49	PROJ. NO.	435-46 KA-2100-01	BRIDGE NO.	NB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA.	220+38, 68.0' Rt CL
GEOLOGIST	R. Crow, P.G.	SCALE 1 inch = 5.0 feet		DATE	August 23, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	888.4
GW ELEV.	884.6	TOTAL DEPTH	64.8	M/B ELEV.	884.8



BOREHOLE REPORT - KANSAS DOT.GDT - 11/26/12 09:48 - Q:\GEOLOGY\BRIDGE\435-46 KA-2100-01\KA-2100-01 ROE OVER I-435.GPJ

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO. I-435 / Johnson	SOUNDING NO. CD 03	SHEET 2 of 3	
BRIDGE STA. 370+83.49	PROJ. NO. 435-46 KA-2100-01	BRIDGE NO NB1.75(415)&SB1.74(418)	
SITE NAME NB & SB Roe over I-435		HOLE STA. 220+38, 68.0' Rt CL	

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION		CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
NQ2 Diamond	Wea Shale Member	5		855		Shale, dark gray, laminar	16.1	1300000		855.7
		6								
		7		850			37	5080000		850.4
			40.7		847.7	Shale, dark gray, laminar, limy				
		8		845			35	5810000		844.8
		9		840			40	3220000		839.9
		10		835			29	2880000		836.4
			54.8		833.6	Shale, dark gray with small white shell fossils, gradual transition				
		11		830			25	2610000		830.9
	Block Ls		60.6		827.8	Limestone, fine, hard, gray, crinoidal, gradual transition				
		12	61.7		826.7	Shale, gray, fossiliferous (shells), limy				
	Fontana Shale		63.1	825	825.3	Shale, very dark gray, laminar, very firm				
			64.8		823.6	T.D. = 64.8				

BOREHOLE REPORT - KANSAS DOT.GDT - 11/26/12 09:48 - Q:\GEOLOGY\BRIDGE\435-46 KA-2100-01\KA-2100-01 ROE OVER I-435.GPJ

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 03	SHEET 3 of 3	
BRIDGE STA.	370+83.49	PROJ. NO.	435-46 KA-2100-01	BRIDGE NO	NB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA.	220+38, 68.0' Rt CL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION

Core	Depth	Elev.	Cut	Rec	Rec %	RQD
1	10.7	877.7	2.0	1.7	85	25%
2	12.7	875.7	5.0	5.0	100	88%
3	17.7	870.7	5.0	5.0	100	20%
4	22.7	865.7	5.0	5.0	100	90%
5	27.7	860.7	5.0	5.0	100	78%
6	32.7	855.7	3.0	2.9	97	60%
7	35.7	852.7	5.0	5.0	100	100%
8	40.7	847.7	5.0	5.0	100	100%
9	45.7	842.7	5.2	4.2	81	65%
10	50.9	837.5	3.9	5.2	133	100%
11	54.8	833.6	5.0	5.0	100	98%
12	59.8	828.6	5.0	5.0	100	98%
Total	**64.8**	**823.6**	**54.1**	**54.0**	**100**	**80%**