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KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

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Q: NE NE SE SE

RTE./CO.	K-15 / Washington	SOUNDING NO.	CH 1	SHEET 1 of 3	
BRIDGE STA.	77+68: ℄	PROJ. NO.	KA-3959-01	BRIDGE NO.	16.94 (055)
SITE NAME	K-15 over Ash Creek			HOLE STA.	78+26.5, 60.0' Rt CL
GEOLOGIST	T. LeSage, G.T.	SCALE 1 inch = 5.0 feet		DATE	July 13, 2016
DRILLER	R. Hinderliter	RIG TYPE	CME 75	TOP HOLE ELEV.	1309.8
GW ELEV.	N/A	TOTAL DEPTH	63.9	M/B ELEV.	1279.4
GPS COORDINATES	39.7812644, -97.0492477				

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	SPT BLOW COUNT Hammer Cor. Factor: N60	ELEVATION
8" Hollow Augers	Alluvium		1.0	1309.8	SANDY CLAY, dark brown, topsoil				
				1308.8	SILTY SAND, light brown, dry, fill				
				1305		1.3	76900		1303.2
			7.0	1302.8	CLAYEY SAND, dark brown to gray, moist, soft				
				1300					
				1295					
				1290					
				1285					
			27.3	1282.5	CLAYEY GRAVEL, silty				
				1280					

BOREHOLE REPORT - KANSAS DOT 01-09-17.GDT - 9/28/20 14:26 - Q:\GEOLOGY\GINT\15-101 KA-3959-01 ASH CK WASHINGTON.GPJ

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO. K-15 / Washington	SOUNDING NO. CH 1	SHEET 2 of 3	
BRIDGE STA. 77+68: ℄	PROJ. NO. KA-3959-01	BRIDGE NO. 16.94 (055)	
SITE NAME K-15 over Ash Creek		HOLE STA. 78+26.5, 60.0' Rt CL	

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	SPT BLOW COUNT Hammer Cor. Factor: N60	ELEVATION
NQ2 Diamond	Wellington Fm	1	30.4	1279.4	SHALE				
			34.2	1275.6	CLAYEY SHALE, dark gray, medium hard				
			34.8	1275.0	CLAYEY SHALE, maroon, firm				
			36.0	1273.8	CLAYEY SHALE, firm, Slightly limy from 37.2 to 38	18.7	4030000		1272.9
		2	38.9	1270.9	CLAYEY SHALE, maroon and gray, firm, mottled, sparse limy concretions.	44.0	4030000		1269.9
			40.4	1269.4	CLAYEY SHALE, gray to dark gray, firm				
			41.8	1268.0	CLAY, gray, soft				
			41.9	1267.9	GYPSUM, very light white to blue- gray, medium hard, Dark gray shale seams	168.0	7.73E+07		1266.6
		3	43.7	1266.1	SANDY SHALE, laminated, horizontal, dark gray, sandstone seams	93.0	2.32E+07		1265.2
			43.9	1265.9					
			44.7	1265.1	SANDY SHALE, laminated, dark gray, very firm				
			44.9	1264.9	GYPSUM, white				
			45.1	1264.7	SANDY SHALE, laminated, dark gray, firm				
					SILTY CLAYEY SHALE, white to yellow, firm, mottled with gypsum				
			47.3	1262.5	SHALE, light olive- green, medium hard, abundant gypsum	142.0	4.66E+07		1261.7
		4	48.9	1260.9	SHALE, dark olive- maroon, medium hard, gypsum veins angled across bedding between 49.2 to 49.6	58.0	1.03E+07		1259.5
			50.1	1259.7	SHALE, maroon, medium hard				
			50.4	1259.4	SHALE, dark olive- green to gray, medium hard, dark gray shale laminations.	90.0	1.7E+07		1257.4
			53.9	1255.9	SHALE, gray to olive- green, medium hard, gypsum vein 54.8	107.0	1.93E+07		1255.4
		5	55.3	1254.5	GYPSUM, yellow to white	101.0	4.09E+07		1252.5
			57.4	1252.4	SHALE, olive- green, medium hard, some gypsum				
			58.9	1250.9	SHALE, olive- green, medium hard				
			59.2	1250.6	GYPSUM				
	Herington LS Mbr		59.3	1250.5	SHALE, black, medium hard	227.0	1.19E+08		1249.4
		6	60.0	1249.8	DOLOMITE, blue- gray, hard, mostly gypsum between 61.3 and 61.9	187.0	1.52E+08		1246.3
			63.9	1245.9	T.D. = 63.9				

BOREHOLE REPORT - KANSAS DOT 01-09-17.GDT - 9/28/20 14:26 - Q:\GEOLOGY\GINT\15-101 KA-3959-01 ASH CK WASHINGTON.GPJ

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RTE./CO. K-15 / Washington	SOUNDING NO. CH 1	SHEET 3 of 3	
BRIDGE STA. 77+68: ℄	PROJ. NO. KA-3959-01	BRIDGE NO. 16.94 (055)	
SITE NAME K-15 over Ash Creek		HOLE STA. 78+26.5, 60.0' Rt CL	

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

Core	Depth	Elev.	Cut	Rec	Rec %	RQD
1	33.9	1275.9	5.0	4.5	90	36%
2	38.9	1270.9	5.0	5.0	100	72%
3	43.9	1265.9	5.0	5.0	100	60%
4	48.9	1260.9	5.0	4.9	98	96%
5	53.9	1255.9	5.0	5.0	100	94%
6	58.9	1250.9	5.0	4.9	98	88%
Total	**63.9**	**1245.9**	**30.0**	**29.3**	**98**	**74%**

Box 1: 33.9 - 46.4

Box 2: 46.4 - 57.3

Box 3: 57.3 - 63.9

BOREHOLE REPORT - KANSAS DOT 01-09-17.GDT - 9/28/20 14:26 - Q:\GEOLOGY\GINT\15-101 KA-3959-01 ASH CK WASHINGTON.GPJ