



COUNTY <b>Butler</b>		PROJECT NO. <b>54-8-RE038-4(26)</b>				BRIDGE NO. <b>15.07</b>			
2 STA. <b>297+38.20-50+00</b>		NAME <b>Haverhill Road</b>				STA. <b>48+61.50</b>		SOURD. NO. <b>5</b>	
GROUNDWATER EL.		VERTICAL SCALE <b>1"=10'</b>				DATE <b>June 1980</b>			
B.M. NO. <b>30</b>		B.M. EL. <b>1339.80</b>		SUBMITTED BY <b>Albert Stout</b>					
POINT	B.S.	H.I.	F.S.	ELEV.	POINT	B.S.	H.I.	F.S.	ELEV.
See attached Sheet									

FORM	BIT	EL.	LOG	ACC. DEP.	GEOLOGIC DESCRIPTION AND REMARKS	CASING DRIVE REC.	
						DEPTH	BL/10
ALL UVI UM	5 1/2" Hawthorne	1338	4" Casing	1.5	THE 1338.0		
				2.5	Clay, brown, Silty 1336.5		
Towan Mbr	5 1/2" Hawthorne	1338	4" Casing	6.3	Clay, red-brown 1335.5		
				7.8	Limestone, weathered, numerous solution cavities yellow brown with calcite in 1331.7	Base Towanda	
Holmes- ville Shale Mbr	5 1/2" Hawthorne	1338	4" Casing	8.7	Limestone, gray green, clay and silt 1330.2	1329.3	
				11.5	Set Casing to 82, 20 blows/tenth, 350lb. hammer 30" drop 1329.3	Base Casing	
Fort Riley Limestone Mbr.	5 1/2" Hawthorne	1330	4" Casing	12.6	Shale, gray green and yellow green clay, slightly silty 1326.5	1325.1	Top
				12.9	Shale, red, slightly silty 1325.4		Fort Riley
				14.1	Shale, green clay 1325.1		
				14.7	Limestone, yellow brown some thin green clay shale zones 1323.9		
				17.1	Limestone, firmer, gray green & gray, some calcite, clayey 1320.9		
				17.8	Shale, limy, green 1320.2		
				19.5	Limestone, firmer, gray-green, shaly 1318.5		
				22.4	Limestone, green-gray firmer, fine grained, gray below 20' 1315.6		
				22.8	Shale, green silty clay 1315.2		
				24.0	Limestone, gray, fine grained 1314.0		
				24.4	Shale, dark gray 1313.6		
				33.2	Limestone, gray, fine grained 1304.8		
				35.8	Limestone, tan, fine grained 1302.2		
				39.4	Limestone, gray, fine grained 1298.6		
				45.8	Limestone, tan and brown much softer, medium grained possibly porous some what firmer 42' 1292.2		
51.7	Limestone, gray, less firm, medium grain 1286.3						
76.4	Limestone, gray much firmer, heavy chatter, fossil fragments (brachs) (crinoidal) 1261.6						
80.2	Limestone, gray, heavy chatter, possible chert fragments, firmer zone 79' quartz 257.8 or chert						
				80.2	T.D. = 80.2 (Elev. 1257.8)		