

MICROFILMED
DEC 11 1964

LOG OF BORING
Date Started 7-23-68 Sampler Type SS Dia 1 3/8"
Date Completed 7-23-68 Casing Length 5' Dia 3 1/2"
Boring No B-33 Station B Offset 1033+63, 88' Rt. Surface Elev 663.5'

Elev	Depth	Std Pen (N)	Rec ft	Loss ft	Description	Sample No	Physical Characteristics										SMTL Class	
							% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	Moist.	Shrink.		
663.5	0																	
658.5	5	12/10			Brownish-Gray Sandy Gravelly Clay	1	33	12	13	15	27	34	15	16	A-6a			
653.5	10				TOP OF WEATHERED ROCK													
648.5	12	50* (0.4')	0.7	4.3	Brown Weathered Shale	2	8	6	11	38	37	26	8	13	Visual			
643.5	16	50* (0.4')	0.6	4.4	Brownish-Gray Weathered Shale	3	16	5	2	28	49	41	16	11	Visual			
633.5	20	50* (0.2')	4.7	0.1	Gray Weathered Shale TOP OF FIRM ROCK	4	20	6	3	35	36	-	-	13	Visual			
	22				Shale, gray, medium-firm, slightly carbonaceous, fissile, broken and jointed. Core Loss 3%.													
	28		4.8	0.2														
633.5	30				*Refusal													

LOG OF BORING
Date Started 7-24-68 Sampler Type SS Dia 1 3/8"
Date Completed 7-25-68 Casing Length 10' Dia 3 1/2"
Boring No B-34 Station B Offset 1033+83, 102' Lt. Surface Elev 687.1'

Elev	Depth	Std Pen (N)	Rec ft	Loss ft	Description	Sample No	Physical Characteristics										SMTL Class
							% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	Moist.	Shrink.	
687.1	0																
682.1	6	6/6			Brown Sandy Silt with Stone Fragments	1	24	8	14	21	33	29	10	18	A-4a		
678.0	8				TOP OF ROCK												
677.1	10				Gray weathered shale, (Driller's Description)												
	12		4.8	0.2													
	14																
	16		4.2	0.8													
	18																
	20		4.9	0.1	Shale, gray and dark-gray, firm and hard, carbonaceous in part, fissile. Core Loss 5%.												
	22																
	24																
	26																
	28																
	30		0.2	0.8													
	32																
	34																
	36																
	38		9.9	0.1													
	40																
	42																
	44																
	46																
	48																
	50		9.6	0.4													
	52																
	54																
	56																
	58		5.0	0.0													
627.1	60				*BOTTOM OF BORING												

LOG OF BORING
Date Started 7-31-68 Sampler Type SS Dia 1 3/8"
Date Completed 7-31-68 Casing Length 5' Dia 3 1/2"
Boring No B-36 Station B Offset 1035+75, 65' Lt. Surface Elev 737.9'

Elev	Depth	Std Pen (N)	Rec ft	Loss ft	Description	Sample No	Physical Characteristics										SMTL Class
							% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	Moist.	Shrink.	
737.9	0																
	2				Gray Clay												
733.9	4		1.0	0.0	TOP OF ROCK												
	6																
	8		5.0	0.0	Shale, black, hard, fissile, uniform throughout. Core Loss 5%.												
	10																
	12																
	14		4.5	0.5													
	16																
	18		4.5	0.1													
717.9	20				*BOTTOM OF BORING												

LOG OF BORING
Date Started 7-30-68 Sampler Type SS Dia 1 3/8"
Date Completed 7-31-68 Casing Length 5' Dia 3 1/2"
Boring No B-37 Station B Offset 1035+38, 92' Rt. Surface Elev 724.6'

Elev	Depth	Std Pen (N)	Rec ft	Loss ft	Description	Sample No	Physical Characteristics										SMTL Class
							% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	Moist.	Shrink.	
724.6	0																
	2				Gray Clay												
720.6	4		1.0	0.0	TOP OF ROCK												
	6																
	8		4.2	0.8													
	10																
	12		4.2	0.1													
	14																
	16				Shale, black, fissile, hard, clayey in part, smooth on fresh break tiny flakes of mica, grades to medium-gray in color toward bottom, texture fairly uniform throughout. Core Loss 14%.												
	18																
	20		8.6	1.4													
699.6	24				*BOTTOM OF BORING												

LOG OF BORING
Date Started 7-25-68 Sampler Type SS Dia 1 3/8"
Date Completed 7-26-68 Casing Length 15' Dia 3 1/2"
Boring No B-40 Station B Offset 1036+70, 14' Rt. Surface Elev 775.0'

Elev	Depth	Std Pen (N)	Rec ft	Loss ft	Description	Sample No	Physical Characteristics										SMTL Class
							% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	Moist.	Shrink.	
775.0	0																
	2																
	4																
770.0	6	7/7			Brown Gravelly Sandy Clay	1	17	10	23	17	33	25	11	16	A-6a		
	8																
765.0	10	10/14			Brown Silt and Stone Fragments	2	64	5	9	10	12	16	PL	13	A-1-b		
	12																
760.5	14		0.5	0.5	TOP OF ROCK												
	16																
	18		5.0	0.0	Sandstone, brown, medium-grained, hard, fairly dense, grading to light-gray toward bottom, few horizontal ferruginous staining. No Core Loss.												
	20																
	22																
750.0	24		4.4	0.6	*BOTTOM OF BORING												

LOG OF BORING
Date Started 7-29-68 Sampler Type SS Dia 1 3/8"
Date Completed 7-30-68 Casing Length 10' Dia 3 1/2"
Boring No B-41 Station B Offset 1037+36, 105' Rt. Surface Elev 776.4'

Elev	Depth	Std Pen (N)	Rec ft	Loss ft	Description	Sample No	Physical Characteristics										SMTL Class
							% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	Moist.	Shrink.	
776.4	0																
	2																
	4																
771.4	6	4/5			Brown Clayey Gravelly Sand	1	19	31	13	11	26	29	11	16	A-6a		
	8																
766.4	10	18/32			Brownish-Gray Gravelly Clay	2	33	9	4	15	39	40	18	10	A-6b		
763.9	12																
	14		2.5	1.5	TOP OF ROCK												
	16																
	18		4.9	0.1	Sandstone, light-gray, fine-grained, 3" clay seam at 13', a 6" vertical fracture iron stained, at 18.5 feet, grading into light-brown toward bottom, calcareous in part. Core Loss 4%.												
	20																
	22																
751.4	24		4.9	0.1	*BOTTOM OF BORING												

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. CUY-IR 80-1843 L/R
OVER CUYAHOGA RIVER VALLEY
SEC. CUY-IR 80-1843

BORING DATA

TYPED BY S.A.J.	CHECKED BY R.C.	REVIEWED BY R.D.R.	DATE 8/23/68
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