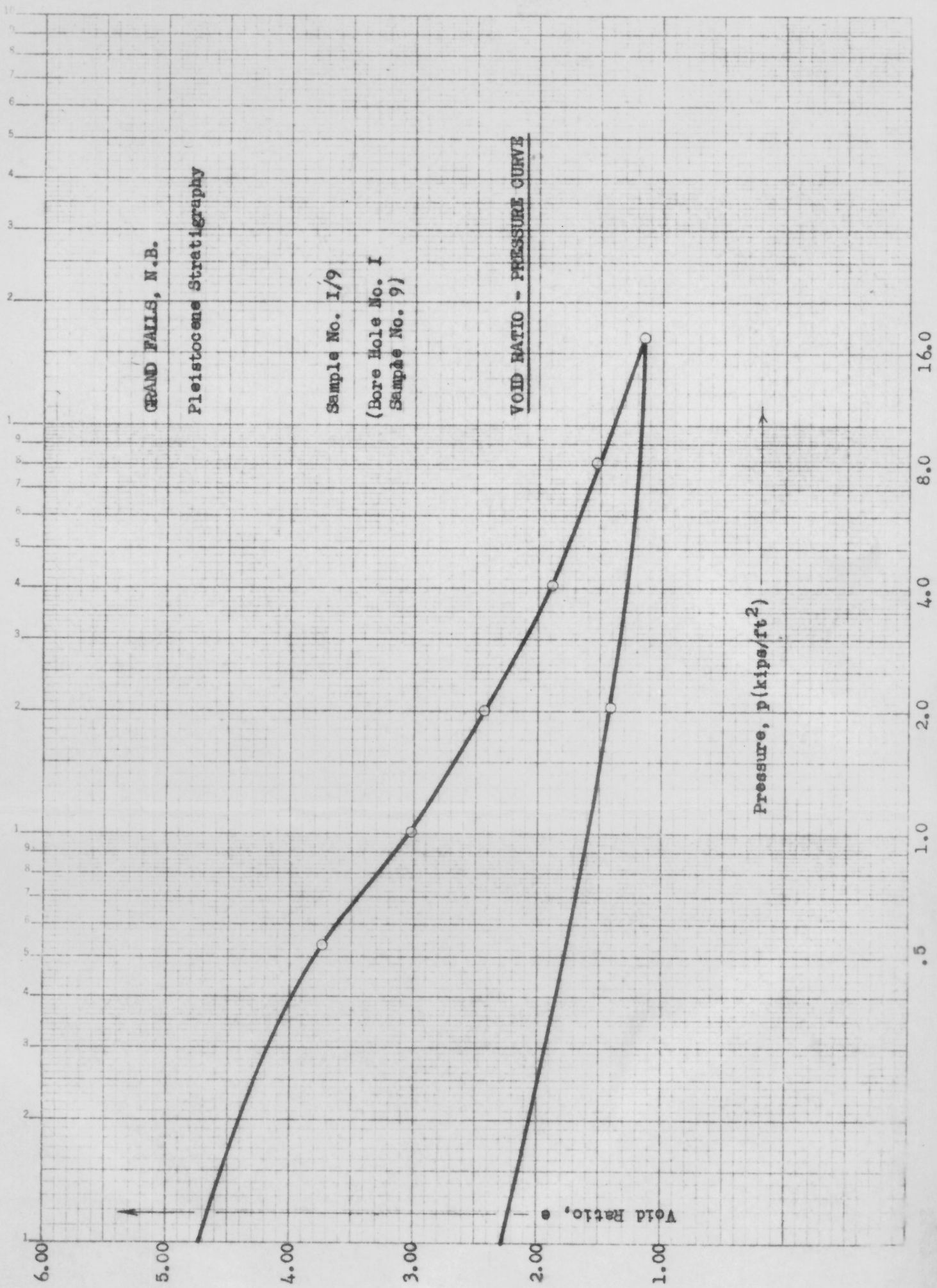
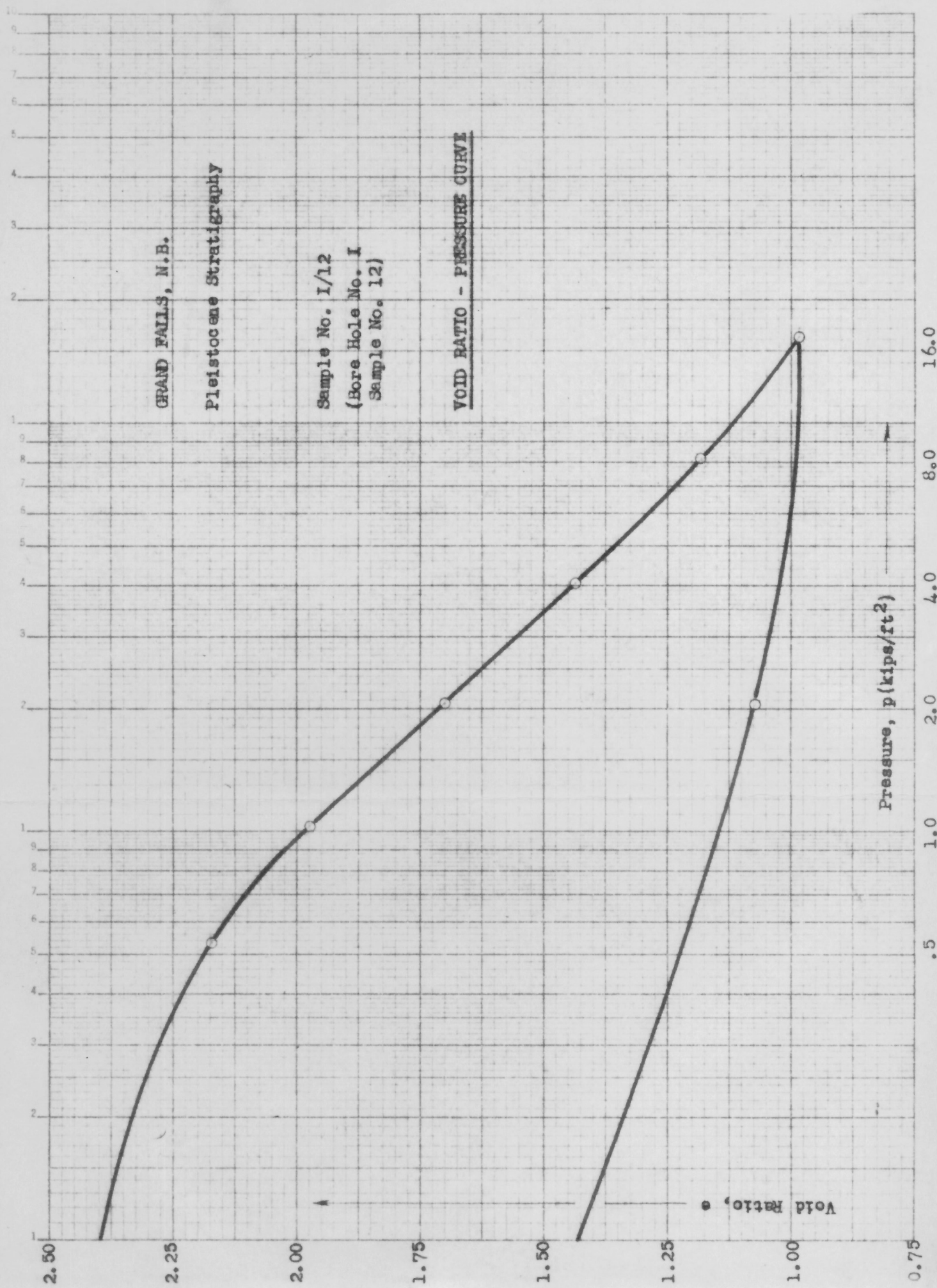
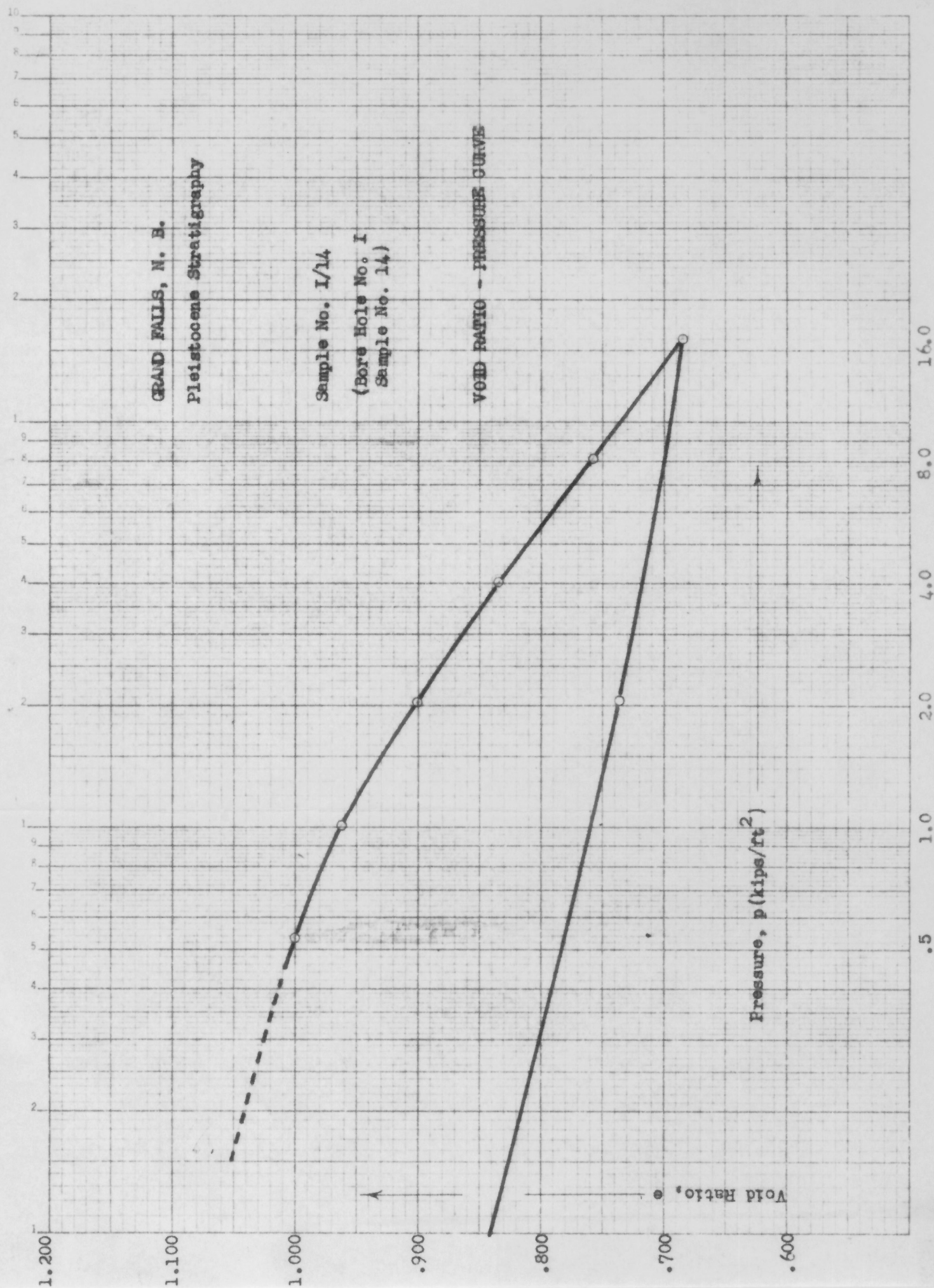


K₀Σ SEMI LOGARITHMIC 359H-71
 KLOPFEL & BESSER CO. MADE IN U.S.A.
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TESTING LABORATORIES
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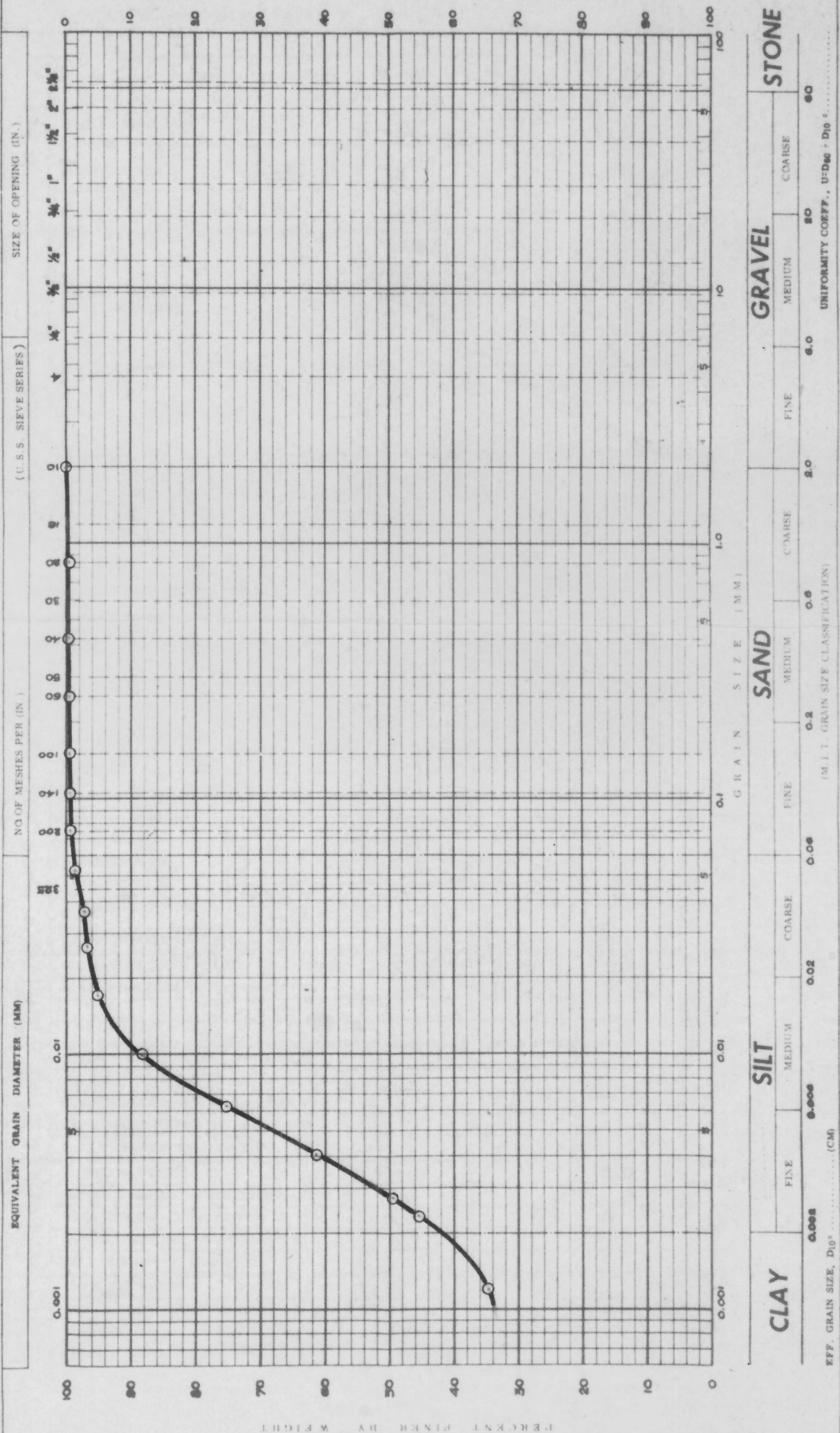
LAB NO. 9777/K
PLACE GRAND FALLS, NB.
PROJECT Pleistocene Stratigraphy
BORE - HOLE NO. I SAMPLE NO. 14
TESTED BY GAD DATE 13-4-61
CHECKED BY SAI DATE 1/9/61

MECHANICAL ANALYSIS OF SOILS

SOIL SAMPLE DESCRIPTION:

CLAYEY SILT

PERCENT COARSER BY WEIGHT



SOIL MECHANICS SECTION

TESTING LABORATORIES, DEVELOPMENT ENGINEERING BRANCH, DEPARTMENT OF PUBLIC WORKS,
OTTAWA - ONTARIO

S. # 67/61

SUMMARY OF LABORATORY TEST RESULTS

SHEET No. 1 OF 1

PLACE: GRAND FALLS, N.B.	REPORT ON SOIL SAMPLES: FINAL
PROJECT: Pleistocene Stratigraphy	DATE: September, 1961

JOB DATA	DATE SAMPLE RECEIVED		March 14/61	March 14/61	March 14/61	March 14/61	March 14/61
	BORE-HOLE No.		I	I	I	I	I
	SAMPLE No. <small>IN TUBE (T) EXTRACTED</small>		8	9	12	14(A)	14(B)
	MEAN ELEV. OF SAMPLE (FT.)		463.3	461.6	455.3	451.5	450.6
SOIL DESCRIPTION	DESCRIPTION OF SOIL TEXTURE		CLAYEY SILT, gyttja	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
	COLOUR AND ODOUR						
	DRY STRENGTH						
	ORGANIC MATTER (DESCRIPTION) (REACTION TO 30% H ₂ O ₂)						
	CALCIUM CARBONATE (%) (REACTION TO 10% HCL)						
PHYSICAL PROPERTIES	SPECIFIC GRAVITY: G (RATIO)		2.34		2.64	2.75	
	NAT. WATER CONTENT: W (%)		297	193	82	39	39
	BULK DENSITY: γ (LBS/FT ³)		72	77	91	114	116
	BUOYANT DENSITY: γ' (LBS/FT ³)						
	LIQUID LIMIT: LL (%)					34	
	PLASTIC LIMIT: PL (%)					22	
	PLASTICITY INDEX: PI (%)					12	
	MECHANICAL ANALYSIS (M.I.T. CLASSIFICATION)	CLAY (%)				42	
		SILT (%)				57	
		SAND (%)				1	
		GRAVEL (%)				0	
CONSOLIDATION	UNIFORMITY COEFF.: U (RATIO)						
	COMPRESSION INDEX: C _c (RATIO)		5.05	2.76	0.88		0.25
UNCONFINED COMPRESS.	MAX. PRECOMP.: P _o (KIPS/FT ²)		1.05	0.52	0.82		1.3
	*COMP. STRENGTH: q _u (KIPS/FT ²)						
	*SHEAR STRENGTH: S (KIPS/FT ²)						
	†COMP. STRENGTH: q _u (KIPS/FT ²)						
	†SHEAR STRENGTH: S (KIPS/FT ²)						
TRIAXIAL COMPRESS.	SENSITIVITY: S _t (RATIO)						
	TYPE OF TEST		* C-Q		C-Q	C-Q	C-Q
	*ANGLE OF INT. FRICTION: ϕ°		0		3	7	14
	*COHESION: C (KIPS/FT ²)		0.1		0.1	1.03	0.58
	†ANGLE OF INT. FRICTION: ϕ°		0				
DIRECT SHEAR	†COHESION: C (KIPS/FT ²)		0.1				
	TYPE OF TEST						
	*ANGLE OF INT. FRICTION: ϕ°						
	*COHESION: C (KIPS/FT ²)						
	†ANGLE OF INT. FRICTION: ϕ°						
MISCELL.	†COHESION: C (KIPS/FT ²)						
	ORGANIC MATTER %		26.5	4.1	4.2		1.3

*SOIL AS RECEIVED

†SOIL REMOULDED

* Consolidated Quick