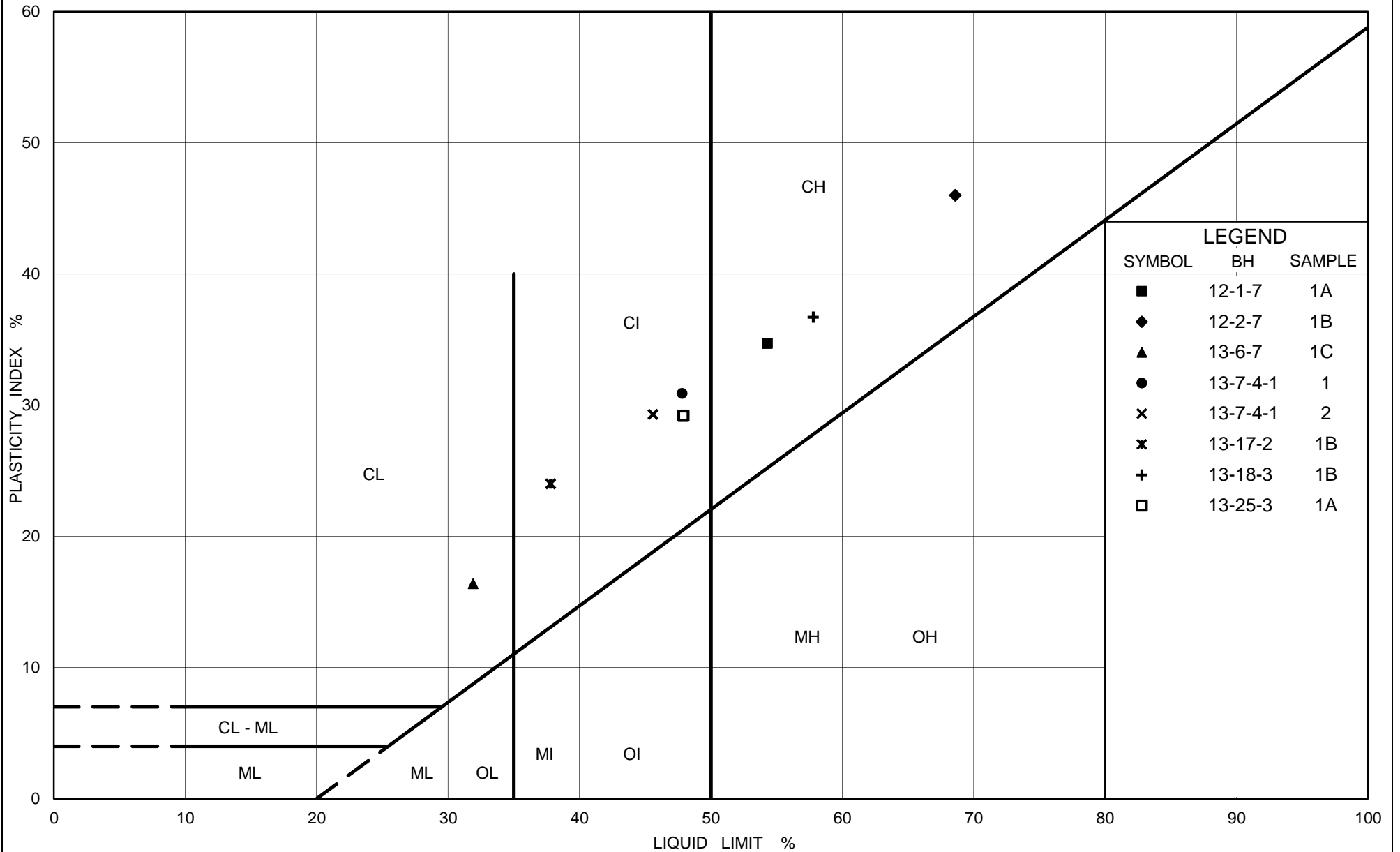
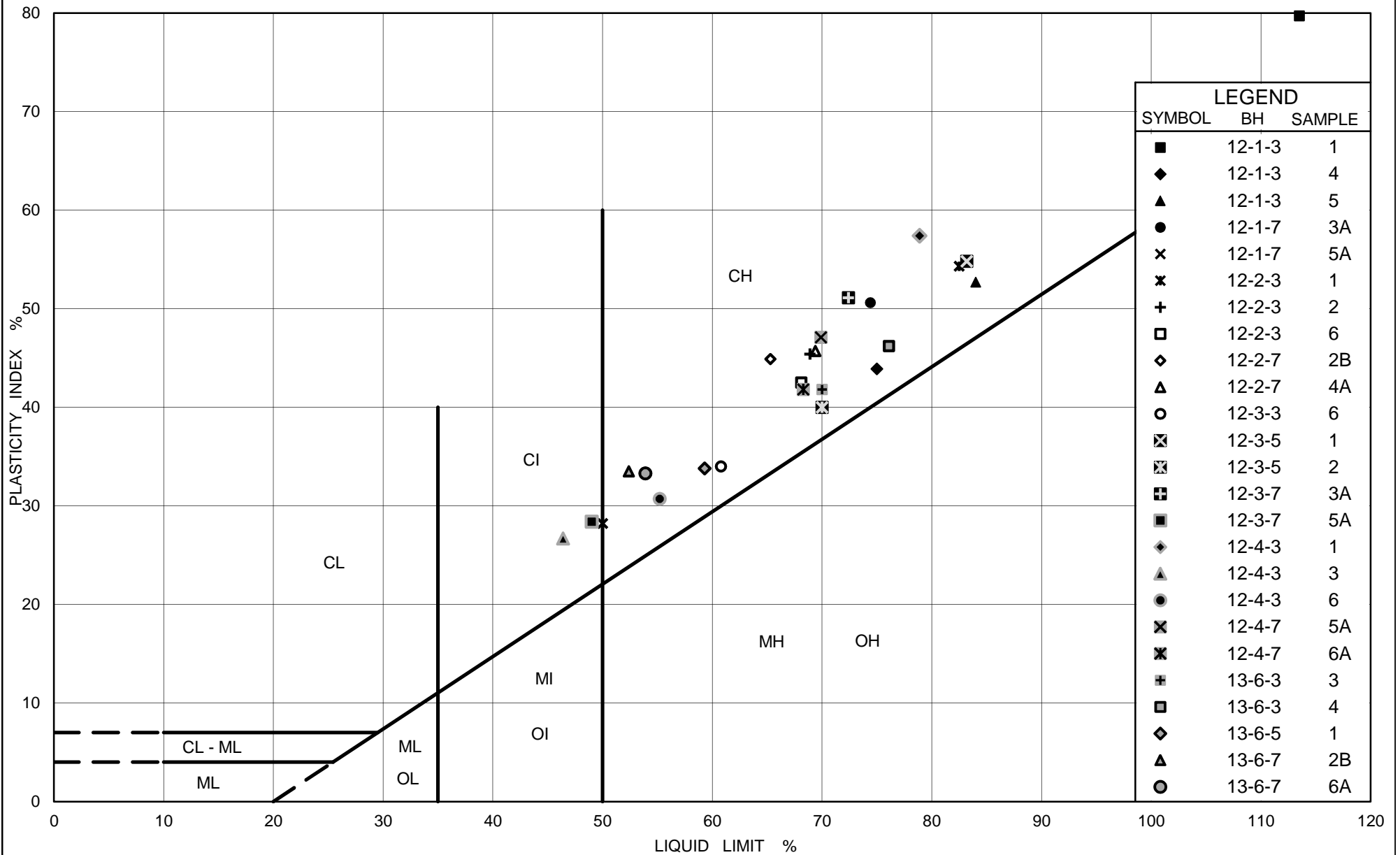


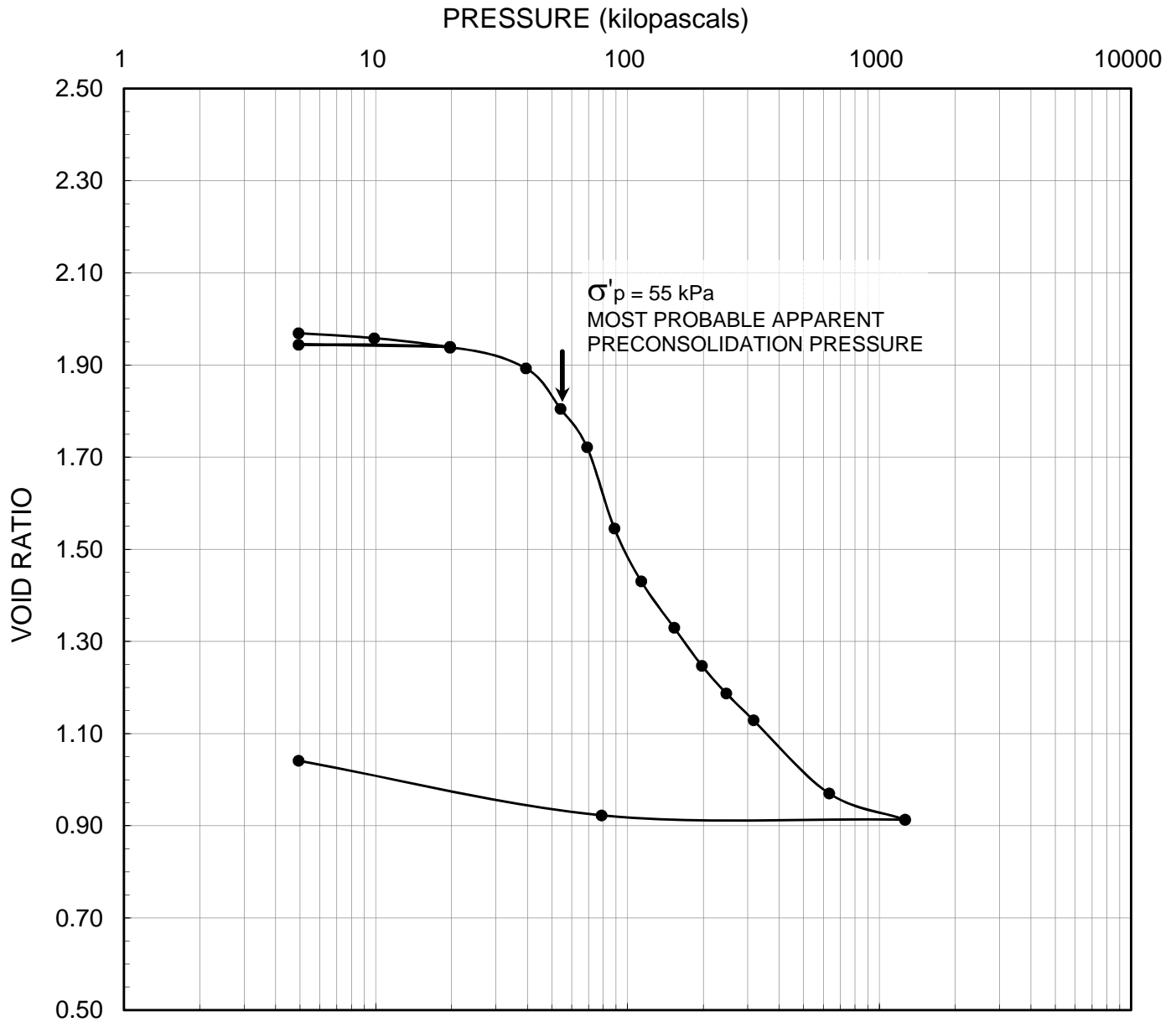


# APPENDIX F

## Plasticity Charts, Consolidation Test Results and Secondary Compression Test Results







**LEGEND**

Borehole: 12-1-3	$w_i = 71\%$	$S_o = 100\%$	$\gamma = 15.7 \text{ kN/m}^3$
Sample: 1	$w_f = 37\%$	$e_o = 1.98$	$G_s = 2.78$
Depth (m): 2.5	$w_l = 114\%$	$C_c = 1.59$	
Elevation (m): 73.5	$w_p = 34\%$	$C_r = 0.010$	

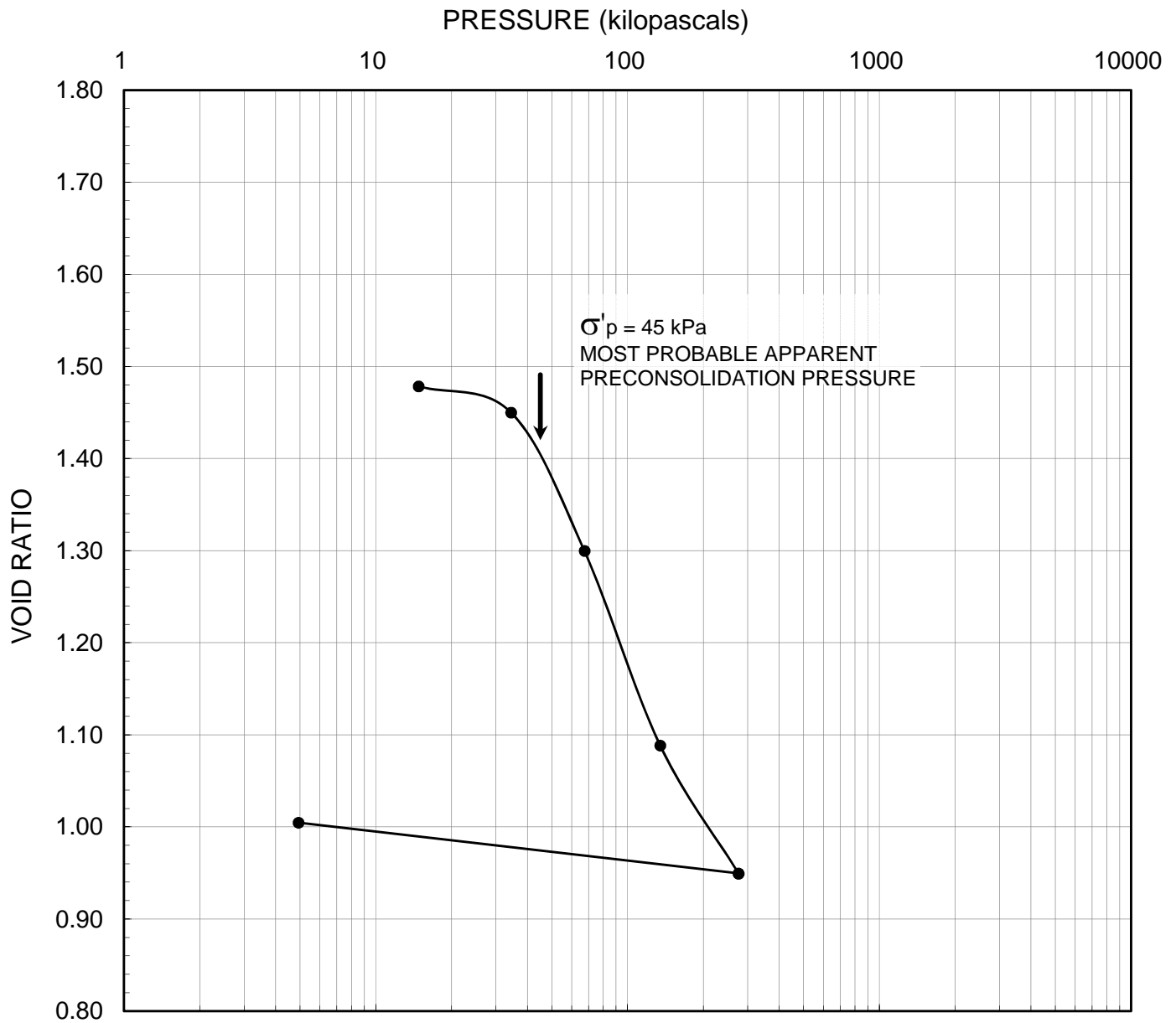


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REV.	3
		REVIEW	MIC


FIGURE	<b>F3</b>
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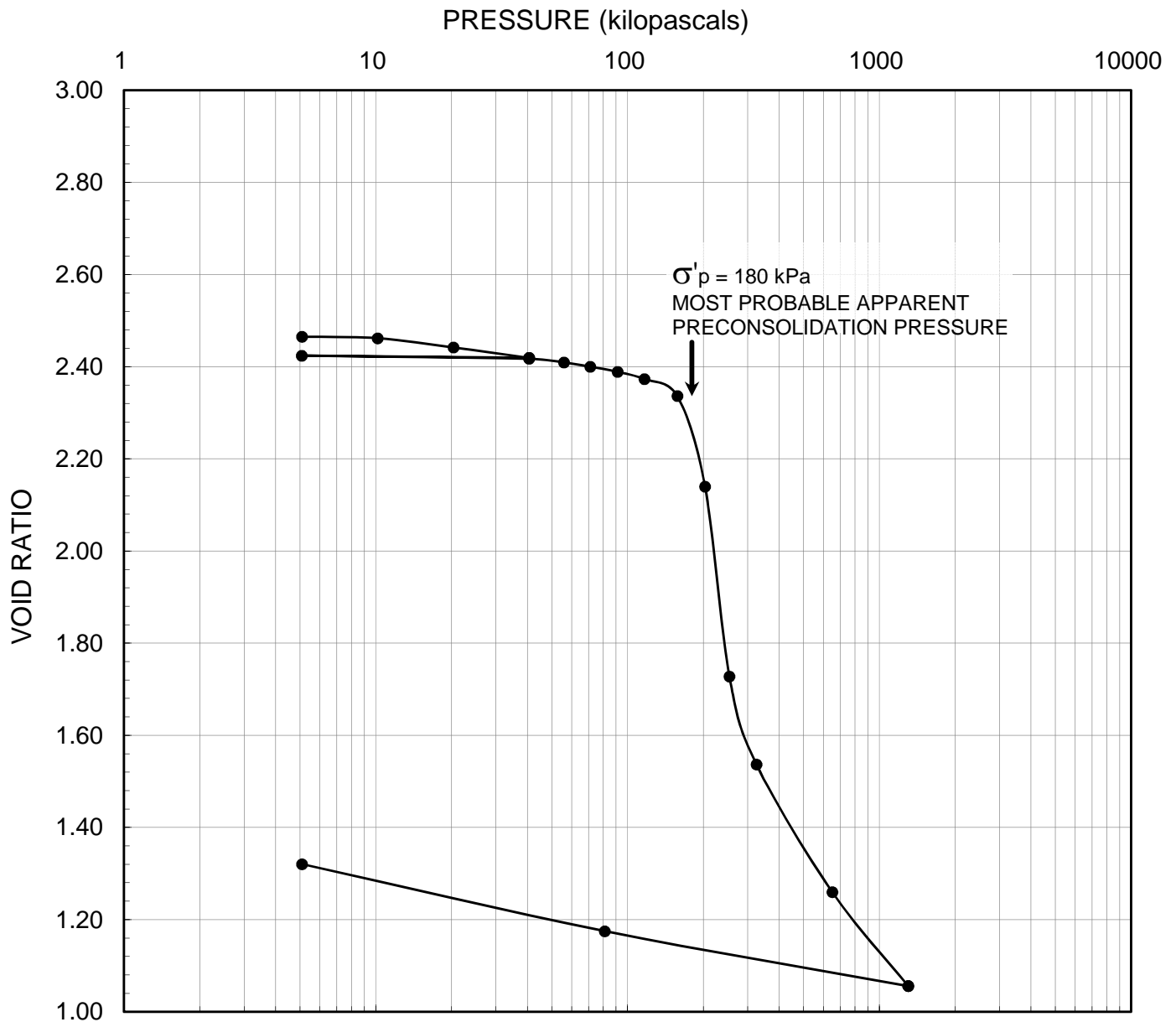


**LEGEND**

Borehole: 12-1-3	$w_i = 54\%$	$S_o = 99\%$	$\gamma = 16.6 \text{ kN/m}^3$
Sample: 2	$w_f = 37\%$	$e_o = 1.50$	$G_s = 2.76$
Depth (m): 6.4	$w_l = 23\% *$	$C_c = 0.69$	
Elevation (m): 69.6	$w_p = \text{NP} *$	$C_r = \text{N/A}$	

\* : Limit specimen at 6.3m depth - Layered deposit

	SCALE	AS SHOWN	<b>CONSOLIDATION TEST RESULTS</b>	
	DATE	11/29/13		
	CADD	N/A		
	DESIGN	MI		
FILE No.	Consolidation summary	CHECK	CNM	
PROJECT No.	12-1125-0045	REV.	3	
		REVIEW	MIC	
			FIGURE	<b>F4</b>



**LEGEND**

Borehole: 12-1-3	$w_i = 84\%$	$S_o = 98\%$	$\gamma = 15 \text{ kN/m}^3$
Sample: 4	$w_f = 48\%$	$e_o = 2.47$	$G_s = 2.88$
Depth (m): 13.3	$w_l = 75\%$	$C_c = 4.23$	
Elevation (m): 62.7	$w_p = 31\%$	$C_r = 0.008$	

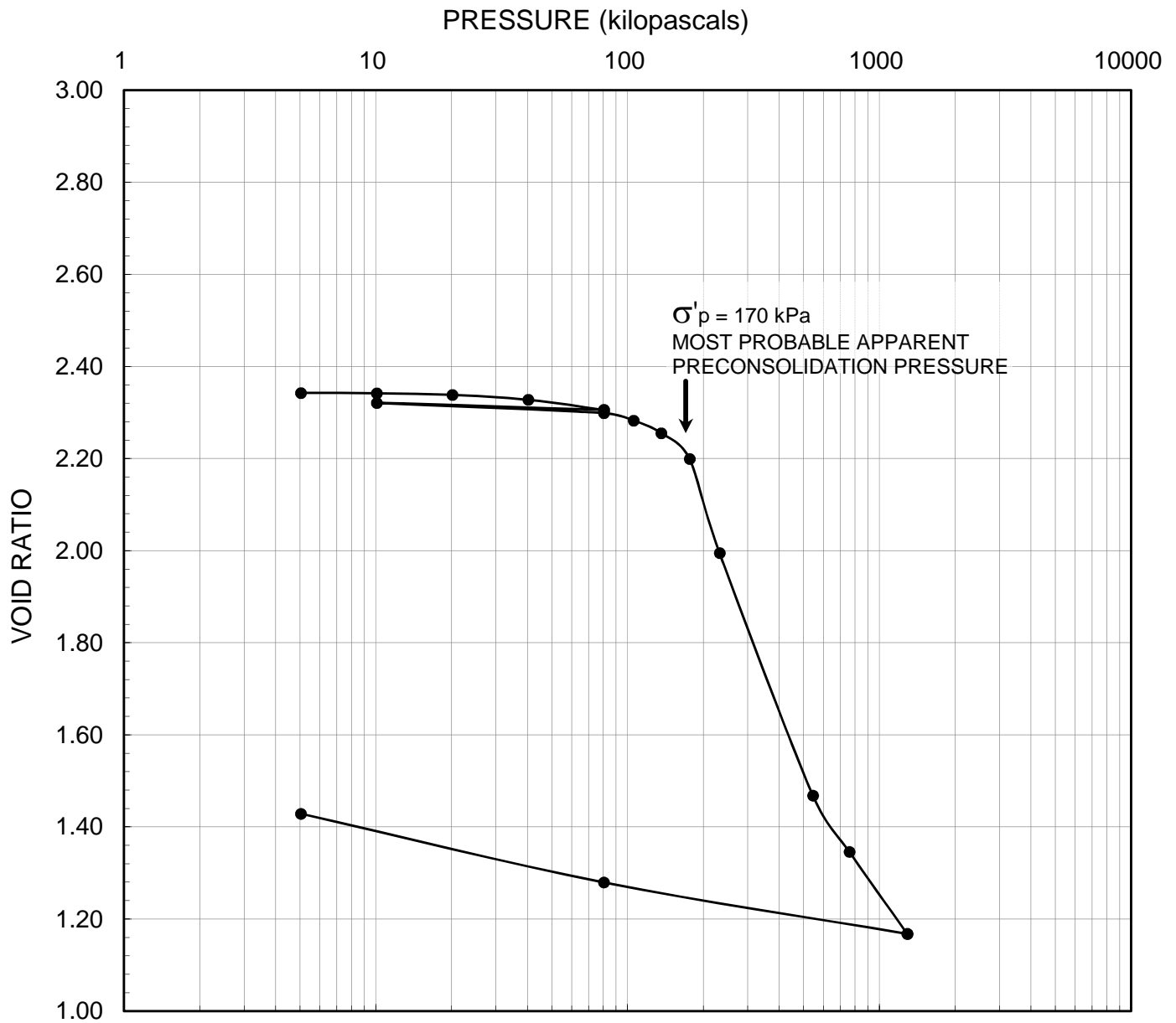


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REV.	3
		REVIEW	MIC

FIGURE **F5**



**LEGEND**

Borehole: 12-1-3	$w_i = 82\%$	$S_o = 100\%$	$\gamma = 15.3 \text{ kN/m}^3$
Sample: 5	$w_f = 50\%$	$e_o = 2.35$	$G_s = 2.87$
Depth (m): 18.7	$w_l = 84\%$	$C_c = 1.70$	
Elevation (m): 57.3	$w_p = 31\%$	$C_r = 0.024$	



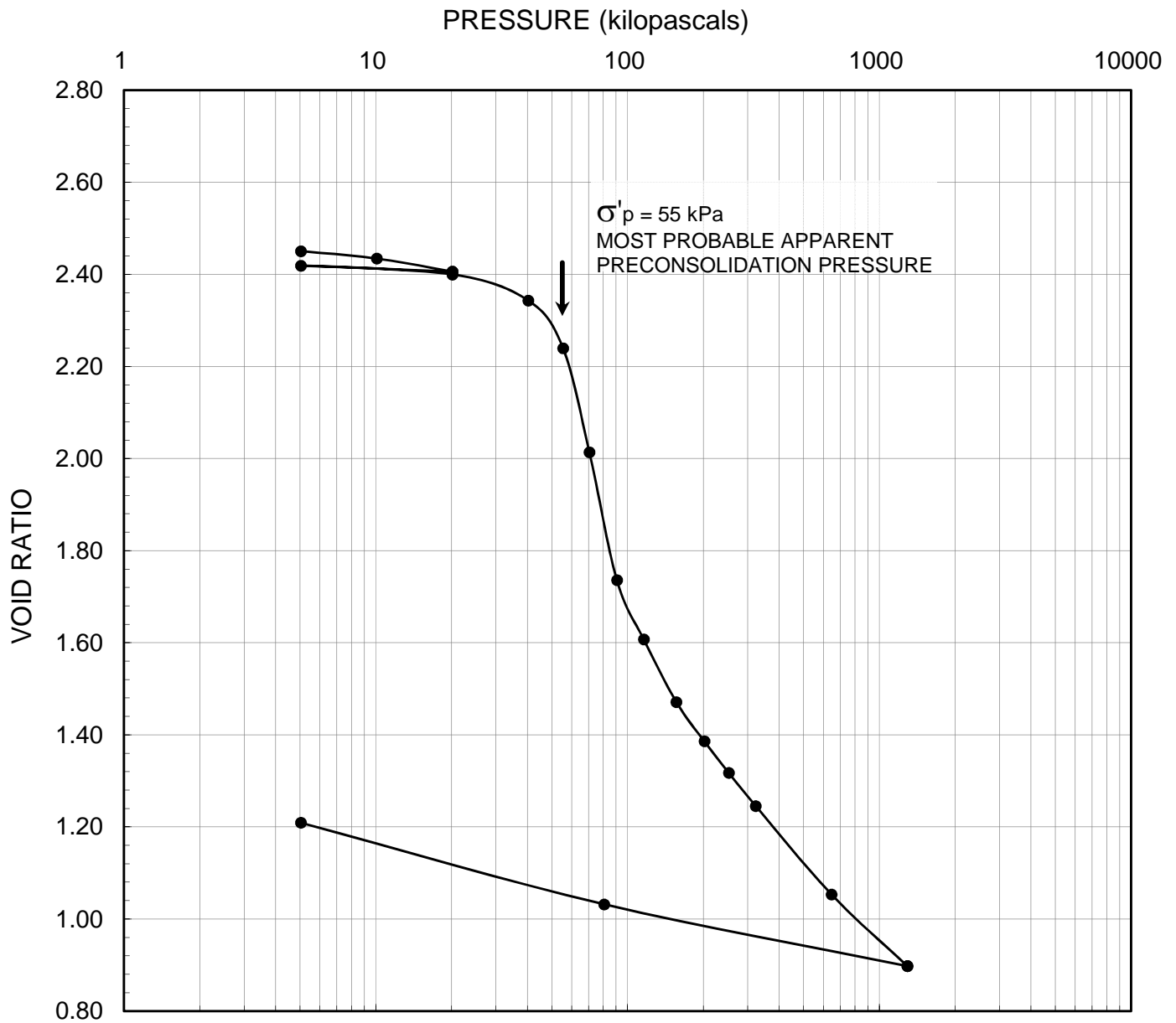
SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE

**CONSOLIDATION TEST RESULTS**

FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC
REV.	3		

FIGURE **F6**



**LEGEND**

Borehole: 12-2-3	$w_i = 89\%$	$S_o = 100\%$	$\gamma = 14.7 \text{ kN/m}^3$
Sample: 1	$w_f = 45\%$	$e_o = 2.47$	$G_s = 2.75$
Depth (m): 4.5	$w_l = 83\%$	$C_c = 2.57$	
Elevation (m): 72.4	$w_p = 28\%$	$C_r = 0.032$	



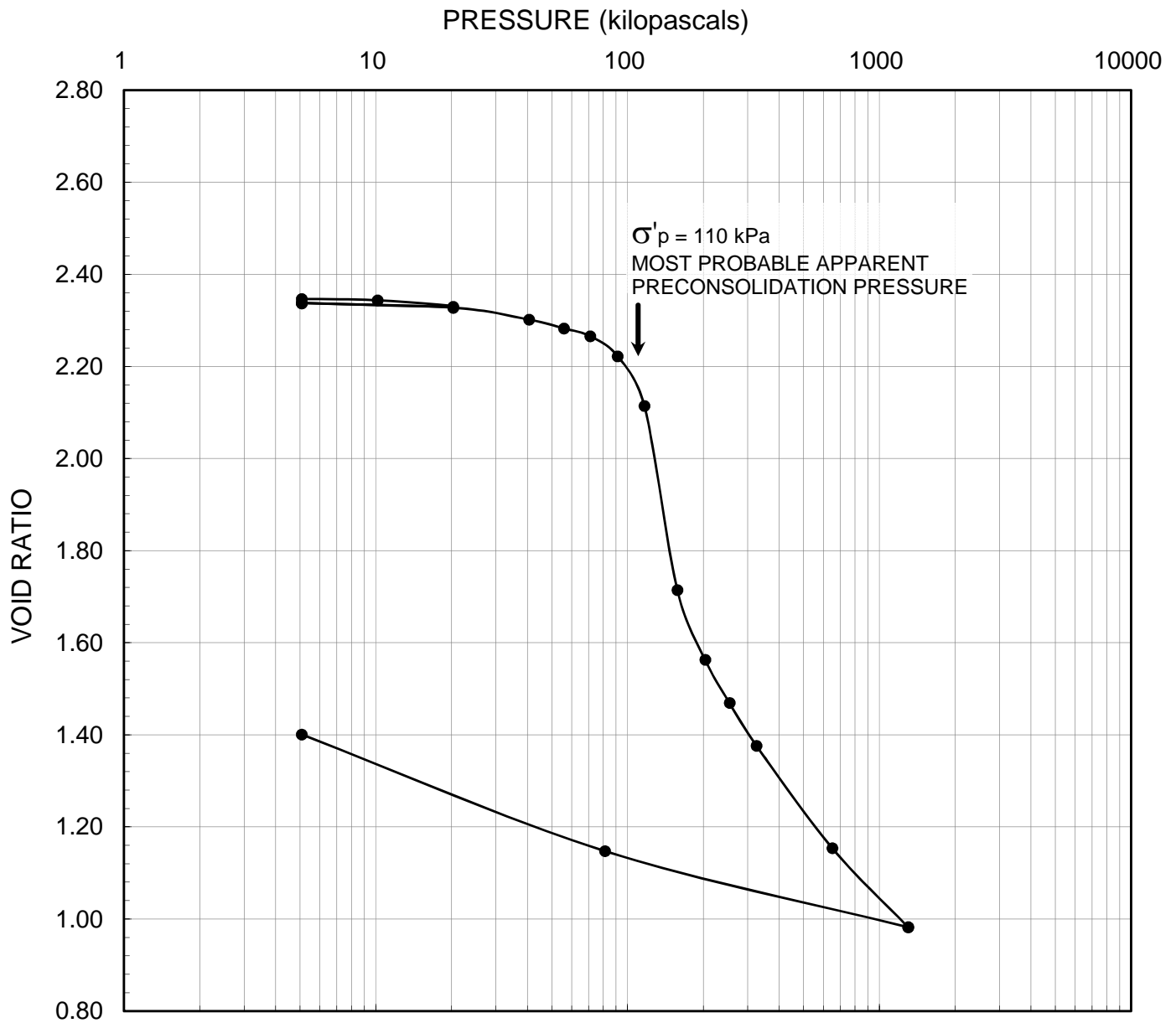
SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE  
**CONSOLIDATION TEST RESULTS**

FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE **F7**





**LEGEND**

Borehole: 12-2-3	$w_i = 85\%$	$S_o = 100\%$	$\gamma = 15 \text{ kN/m}^3$
Sample: 2	$w_f = 51\%$	$e_o = 2.35$	$G_s = 2.76$
Depth (m): 8.5	$w_l = 69\%$	$C_c = 3.06$	
Elevation (m): 68.4	$w_p = 23\%$	$C_r = 0.017$	

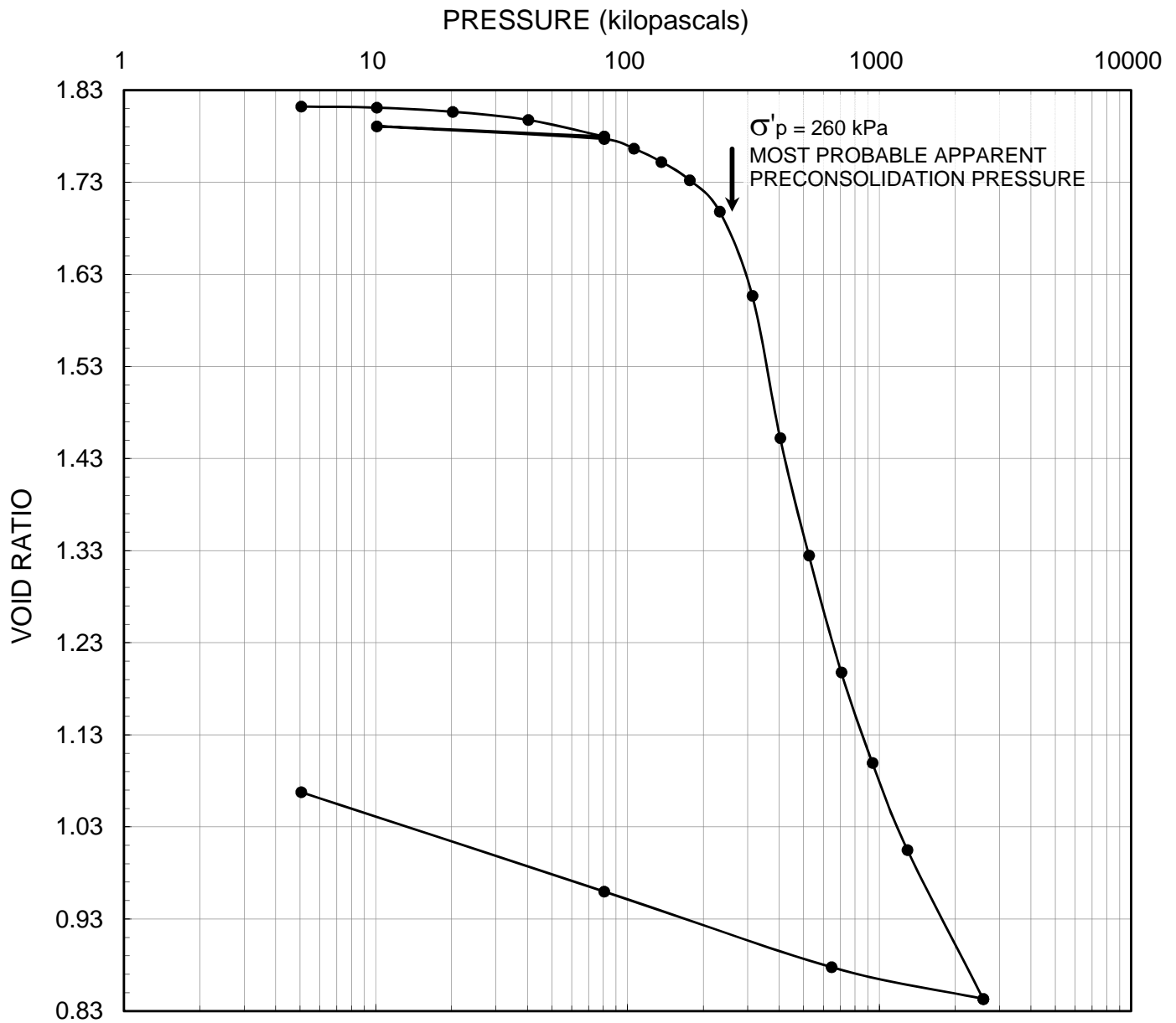


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE  
**CONSOLIDATION TEST RESULTS**

FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE **F8**



**LEGEND**

Borehole: 12-2-3	$w_i = 65\%$	$S_o = 101\%$	$\gamma = 16.1 \text{ kN/m}^3$
Sample: 6	$w_f = 39\%$	$e_o = 1.81$	$G_s = 2.79$
Depth (m): 24.0	$w_l = 68\%$	$C_c = 1.40$	
Elevation (m): 52.9	$w_p = 26\%$	$C_r = 0.015$	

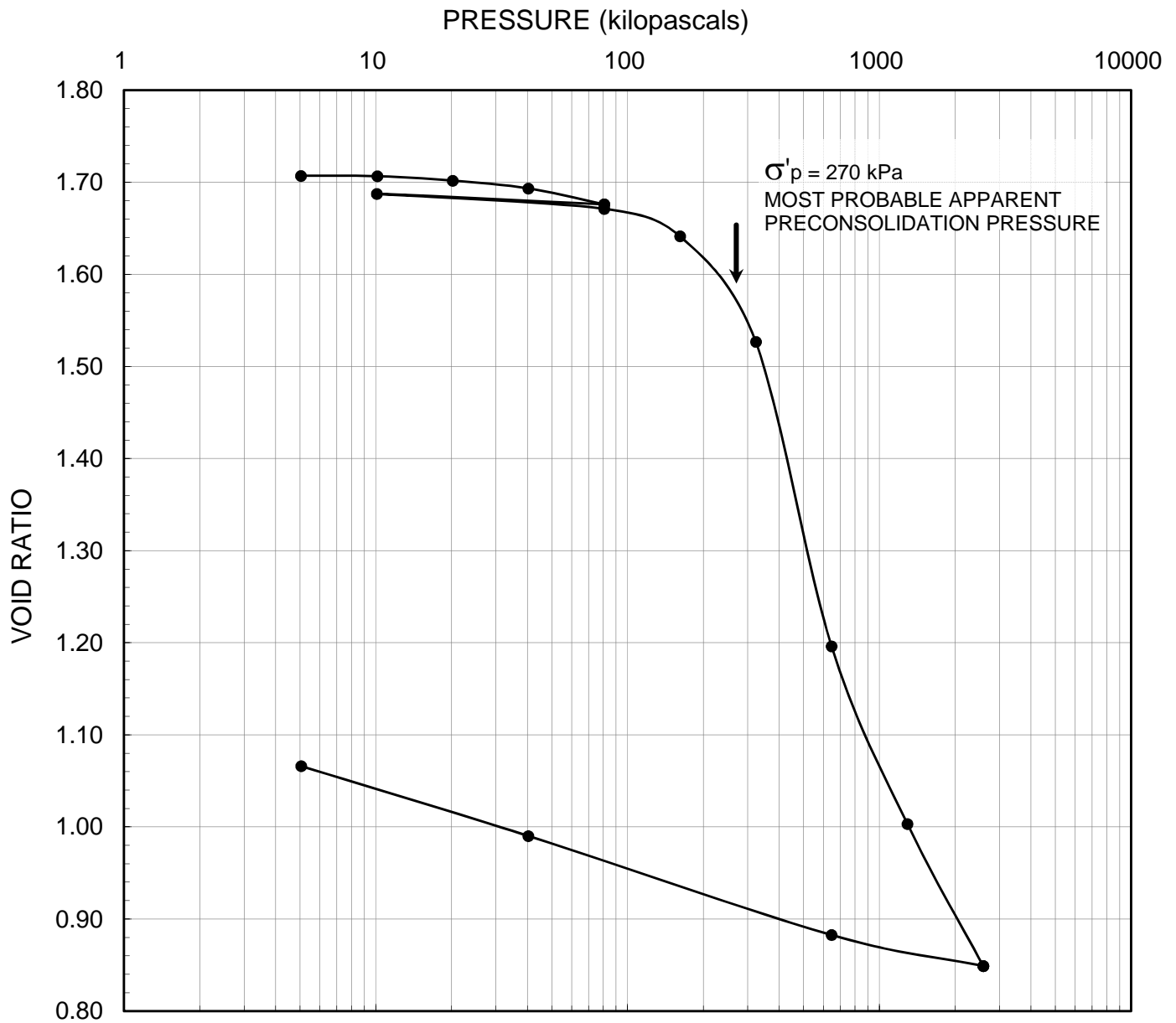


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE  
**CONSOLIDATION TEST RESULTS**

FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE **F9**



**LEGEND**

Borehole: 12-3-3	$w_i = 61\%$	$S_o = 100\%$	$\gamma = 16.3 \text{ kN/m}^3$
Sample: 6	$w_f = 39\%$	$e_o = 1.71$	$G_s = 2.79$
Depth (m): 29.4	$w_l = 61\%$	$C_c = 1.10$	
Elevation (m): 46.8	$w_p = 27\%$	$C_r = 0.018$	

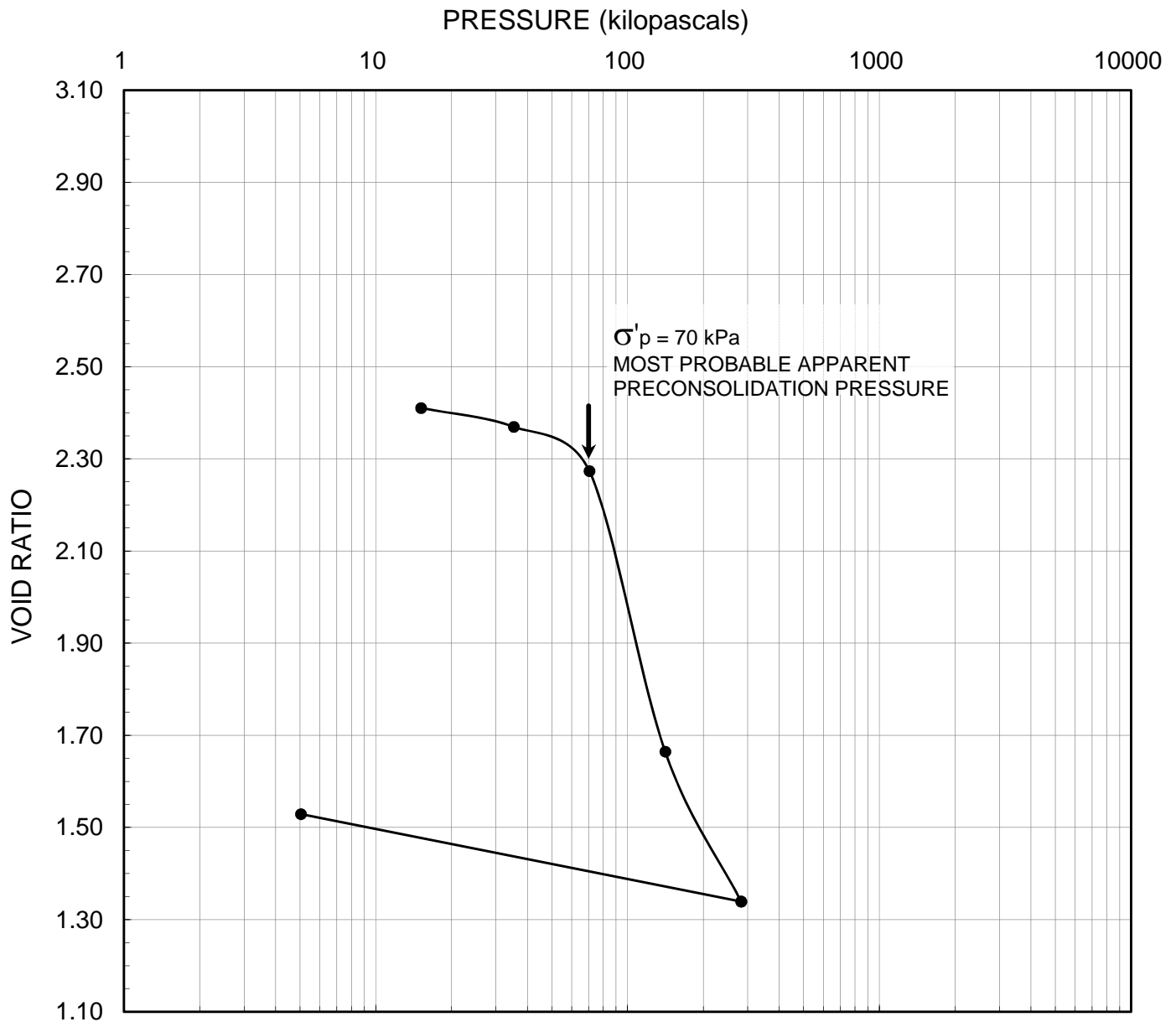


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI
CHECK	CNM
REVIEW	MIC

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
FIGURE	

FILE No.	Consolidation summary
PROJECT No.	12-1125-0045

REV. 3



**LEGEND**

Borehole: 12-3-5	$w_i = 88\%$	$S_o = 100\%$	$\gamma = 14.9 \text{ kN/m}^3$
Sample: 1	$w_f = 57\%$	$e_o = 2.44$	$G_s = 2.79$
Depth (m): 5.6	$w_l = 83\%$	$C_c = 2.04$	
Elevation (m): 70.6	$w_p = 28\%$	$C_r = \text{N/A}$	

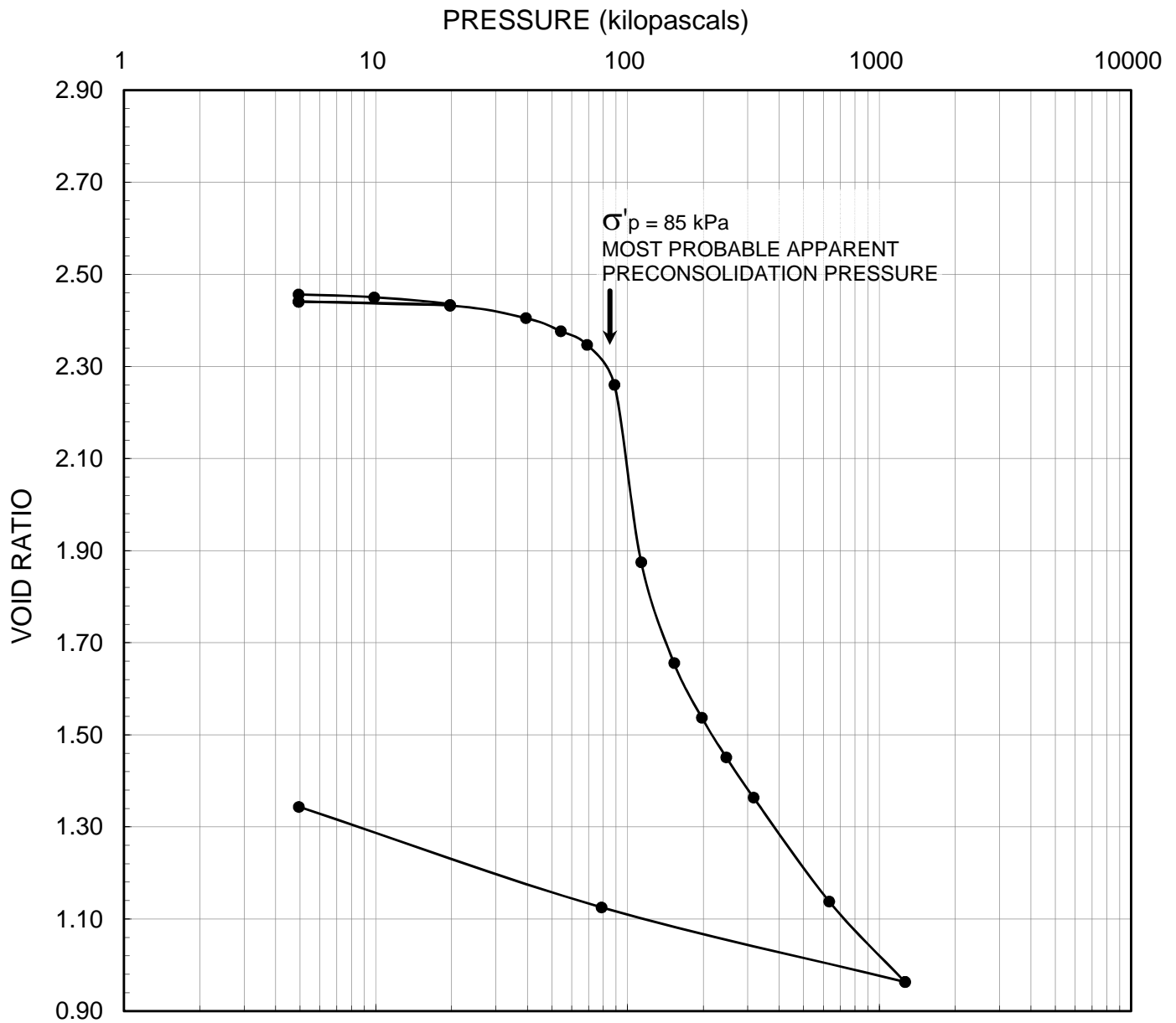


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REV.	3
		REVIEW	MIC

FIGURE **F11**



**LEGEND**

Borehole: 12-3-5	$w_i = 87\%$	$S_o = 99\%$	$\gamma = 14.8 \text{ kN/m}^3$
Sample: 1	$w_f = 48\%$	$e_o = 2.46$	$G_s = 2.79$
Depth (m): 5.7	$w_l = 83\%$	$C_c = 3.71$	
Elevation (m): 70.5	$w_p = 28\%$	$C_r = 0.015$	

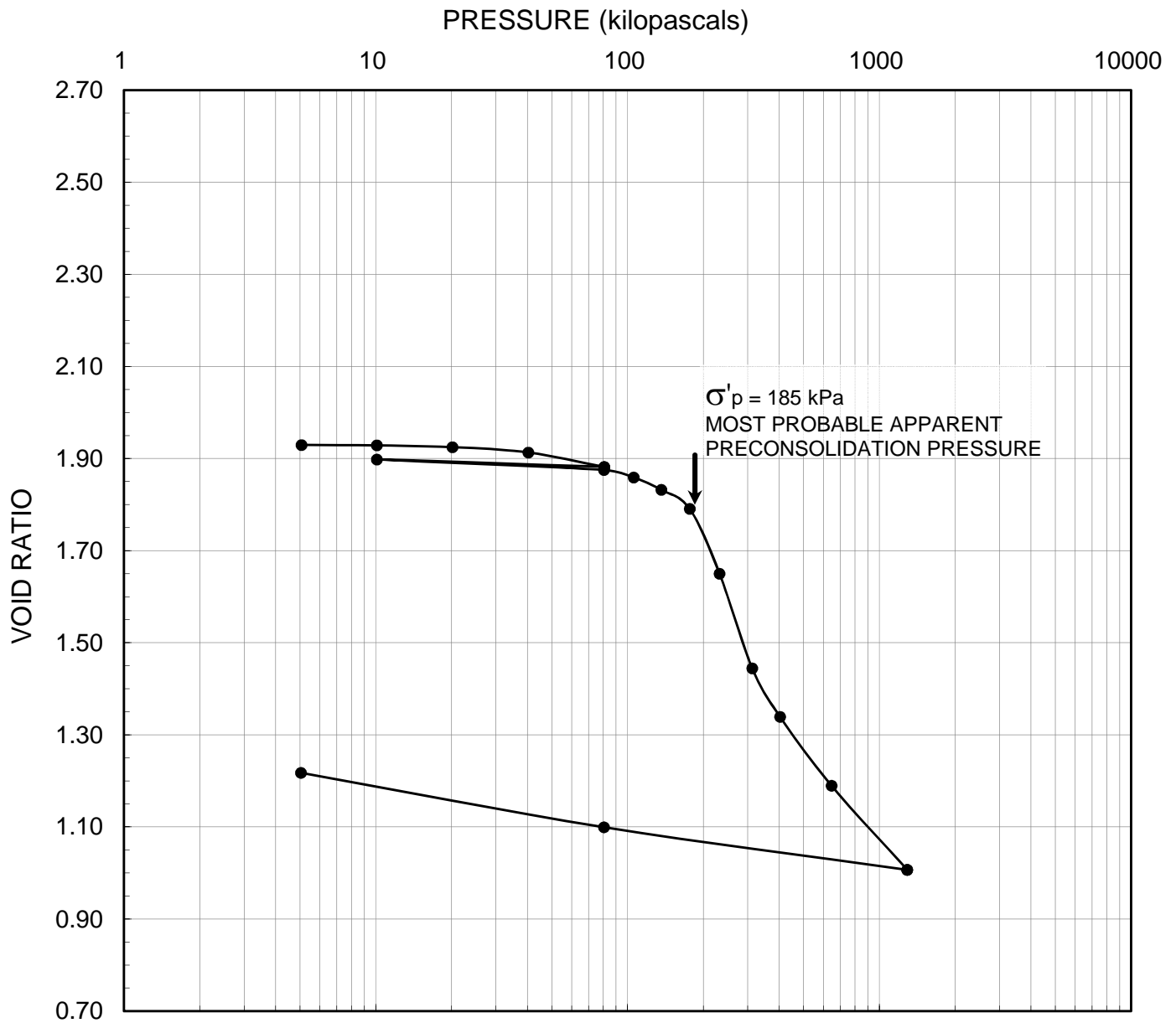


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REV.	3
		REVIEW	MIC

FIGURE **F12**



**LEGEND**

Borehole: 12-3-5	$w_i = 69\%$	$S_o = 101\%$	$\gamma = 15.9 \text{ kN/m}^3$
Sample: 2	$w_f = 45\%$	$e_o = 1.93$	$G_s = 2.81$
Depth (m): 15.7	$w_l = 70\%$	$C_c = 1.58$	
Elevation (m): 60.5	$w_p = 30\%$	$C_r = 0.025$	

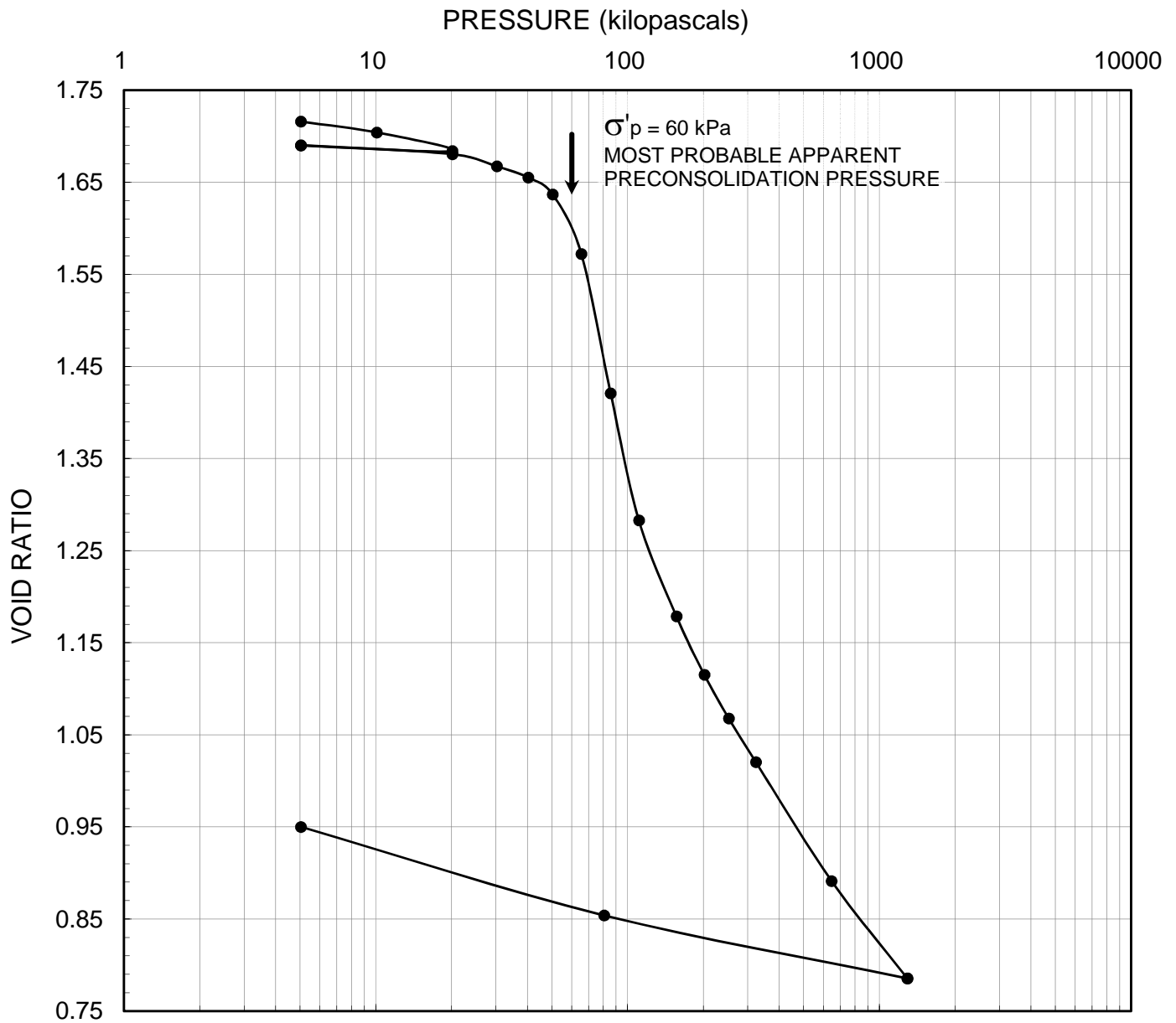


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
DESIGN	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE	<b>F13</b>
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**LEGEND**

Borehole: 12-4-3	$w_i = 64\%$	$S_o = 101\%$	$\gamma = 16 \text{ kN/m}^3$
Sample: 1	$w_f = 35\%$	$e_o = 1.73$	$G_s = 2.72$
Depth (m): 3.3	$w_l = 79\%$	$C_c = 1.31$	
Elevation (m): 72.6	$w_p = 22\%$	$C_r = 0.015$	

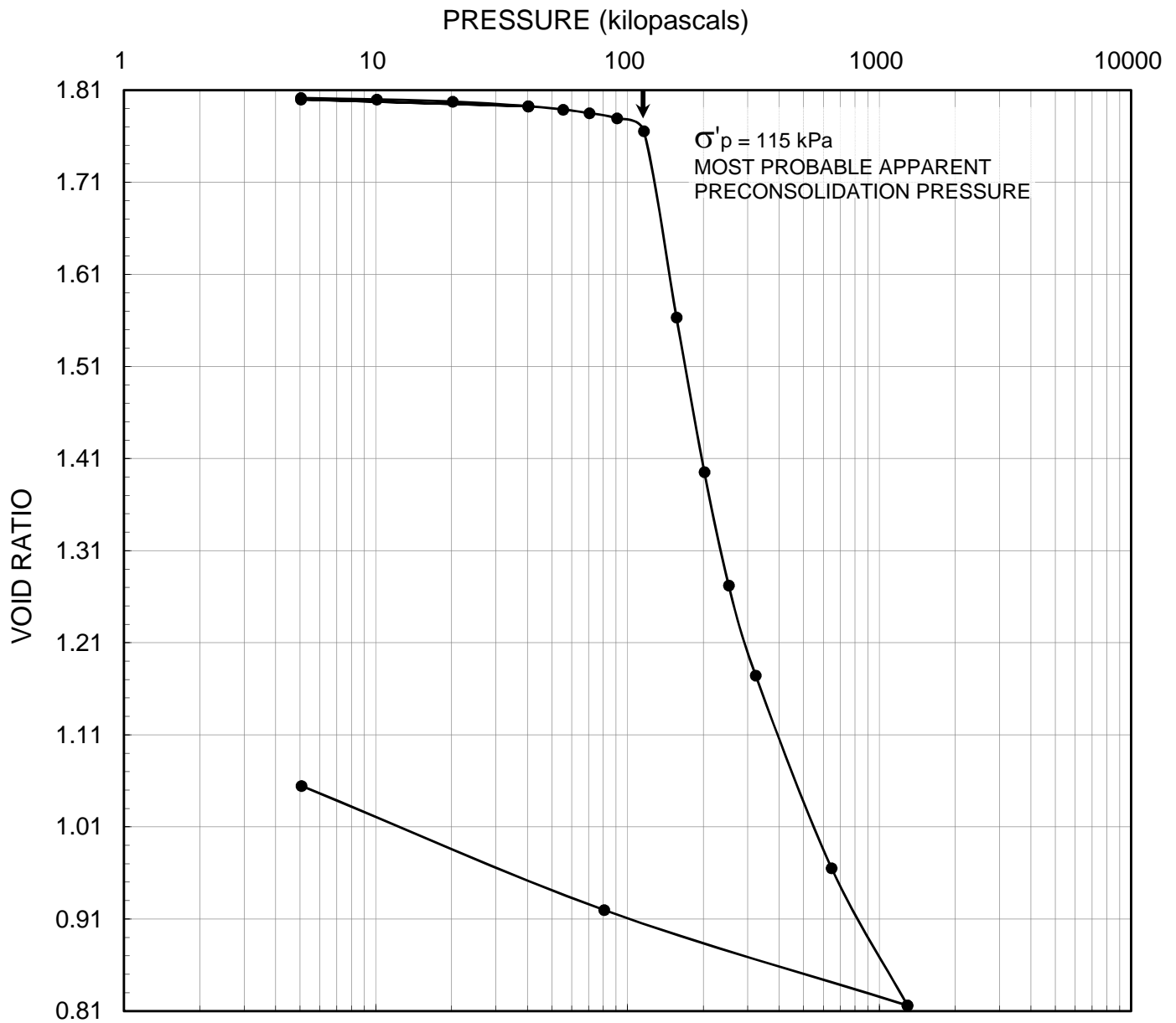


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI
CHECK	CNM
REVIEW	MIC

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
FIGURE	

FILE No.	Consolidation summary
PROJECT No.	12-1125-0045

REV.	3
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**LEGEND**

Borehole: 12-4-3	$w_i = 66\%$	$S_o = 100\%$	$\gamma = 16 \text{ kN/m}^3$
Sample: 3	$w_f = 39\%$	$e_o = 1.80$	$G_s = 2.76$
Depth (m): 11.1	$w_l = 46\%$	$C_c = 1.58$	
Elevation (m): 64.8	$w_p = 20\%$	$C_r = 0.009$	



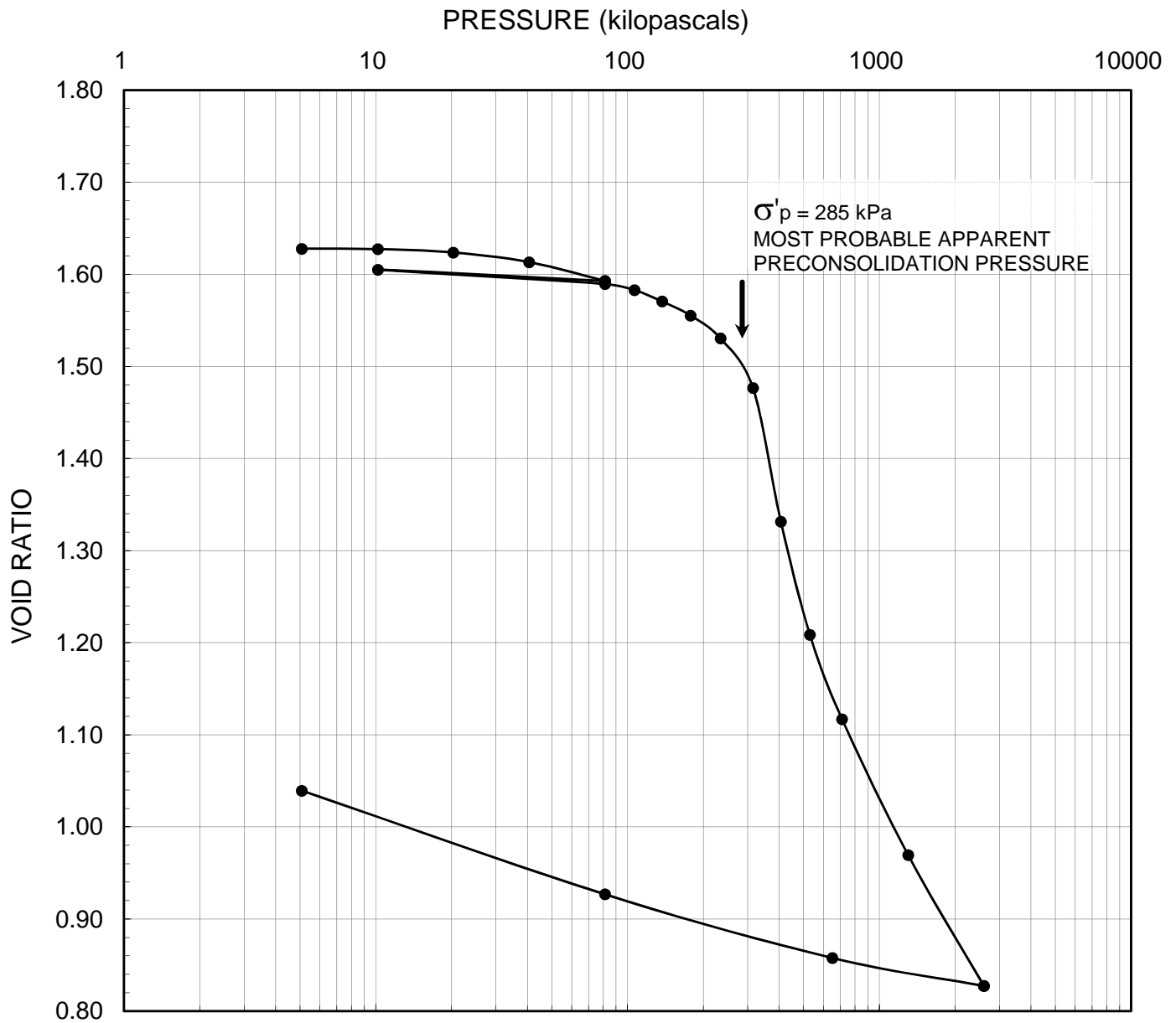
SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE	<b>F15</b>
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**LEGEND**

Borehole: 12-4-3	$w_i = 60\%$	$S_o = 101\%$	$\gamma = 16.4 \text{ kN/m}^3$
Sample: 6	$w_f = 39\%$	$e_o = 1.63$	$G_s = 2.75$
Depth (m): 26.2	$w_l = 55\%$	$C_c = 1.32$	
Elevation (m): 49.7	$w_p = 25\%$	$C_r = 0.017$	

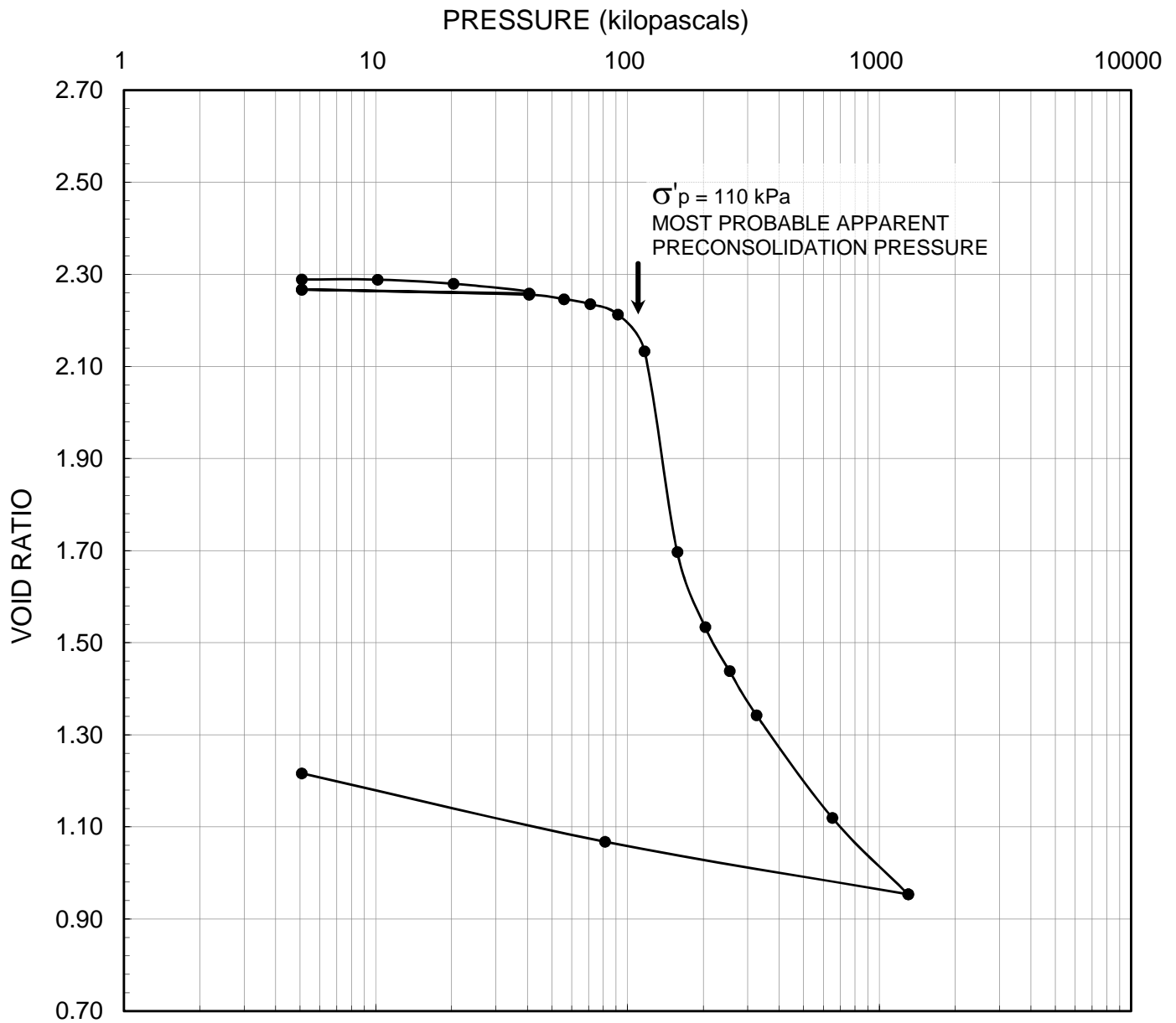


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE	<b>F16</b>
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**LEGEND**

Borehole: 13-6-3	$w_i = 83\%$	$S_o = 100\%$	$\gamma = 15.1 \text{ kN/m}^3$
Sample: 3	$w_f = 45\%$	$e_o = 2.29$	$G_s = 2.76$
Depth (m): 10.0	$w_l = 70\%$	$C_c = 3.41$	
Elevation (m): 66.7	$w_p = 28\%$	$C_r = 0.010$	

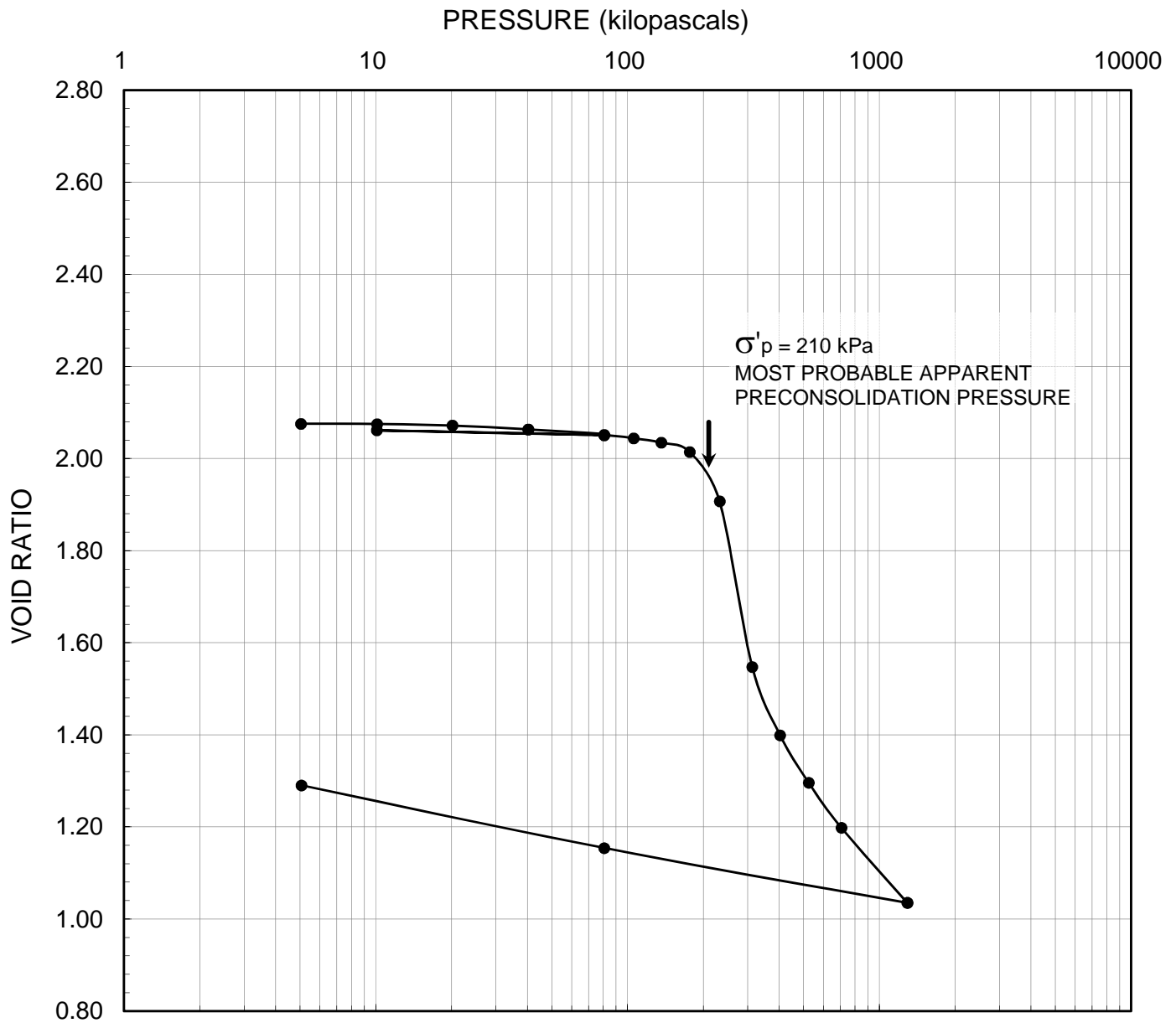


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI

TITLE  
**CONSOLIDATION TEST RESULTS**

FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE **F17**



**LEGEND**

Borehole: 13-6-3	$w_i = 76\%$	$S_o = 101\%$	$\gamma = 15.4 \text{ kN/m}^3$
Sample: 4	$w_f = 48\%$	$e_o = 2.08$	$G_s = 2.75$
Depth (m): 18.4	$w_l = 76\%$	$C_c = 2.80$	
Elevation (m): 58.3	$w_p = 30\%$	$C_r = 0.011$	

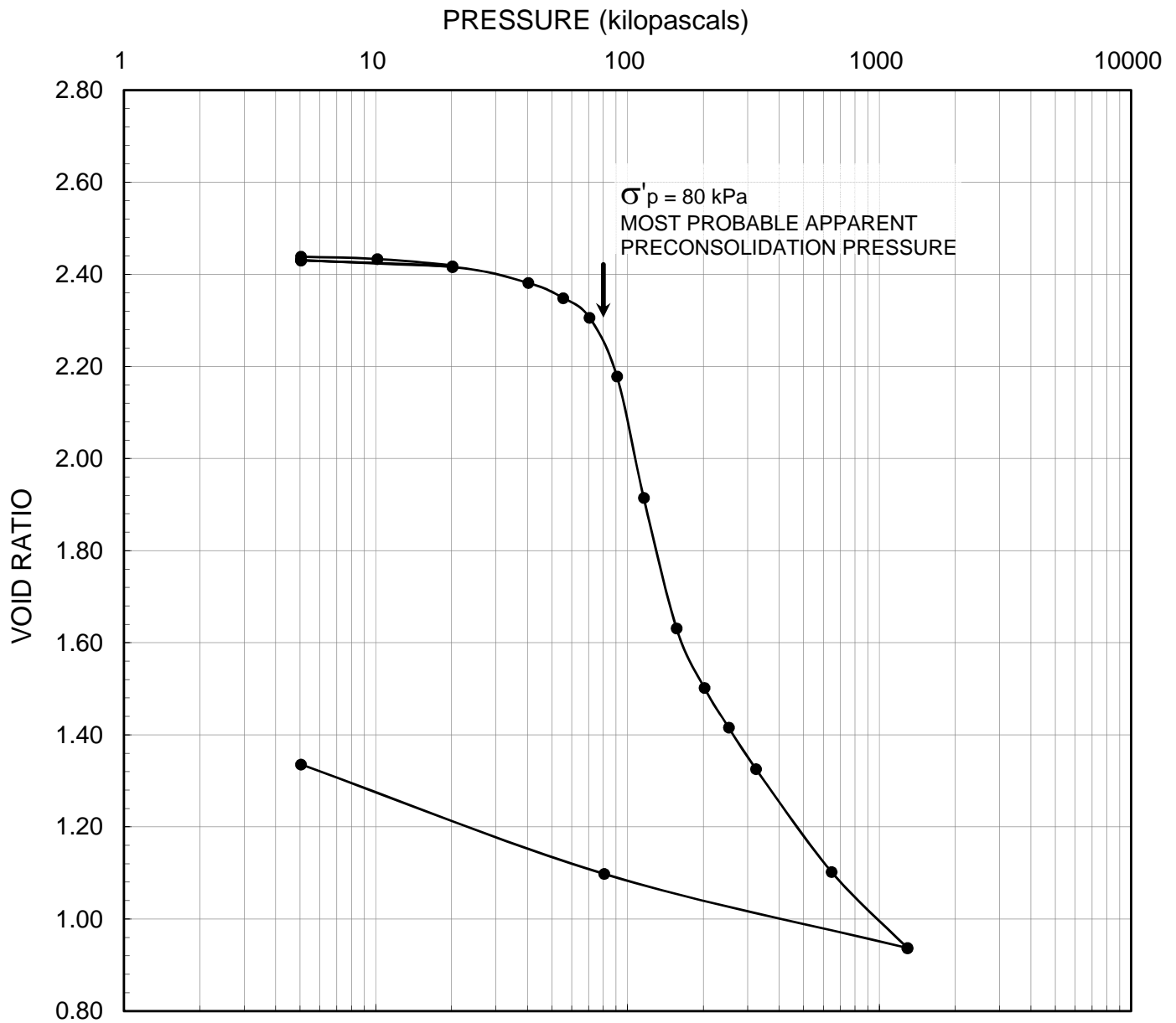


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
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FILE No.	Consolidation summary	CHECK	CNM
PROJECT No.	12-1125-0045	REVIEW	MIC

FIGURE	<b>F18</b>
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**LEGEND**

Borehole: 13-6-5	$w_i = 89\%$	$S_o = 100\%$	$\gamma = 14.8 \text{ kN/m}^3$
Sample: 1	$w_f = 51\%$	$e_o = 2.44$	$G_s = 2.74$
Depth (m): 6.4	$w_l = 59\%$	$C_c = 2.30$	
Elevation (m): 70.2	$w_p = 26\%$	$C_r = 0.025$	

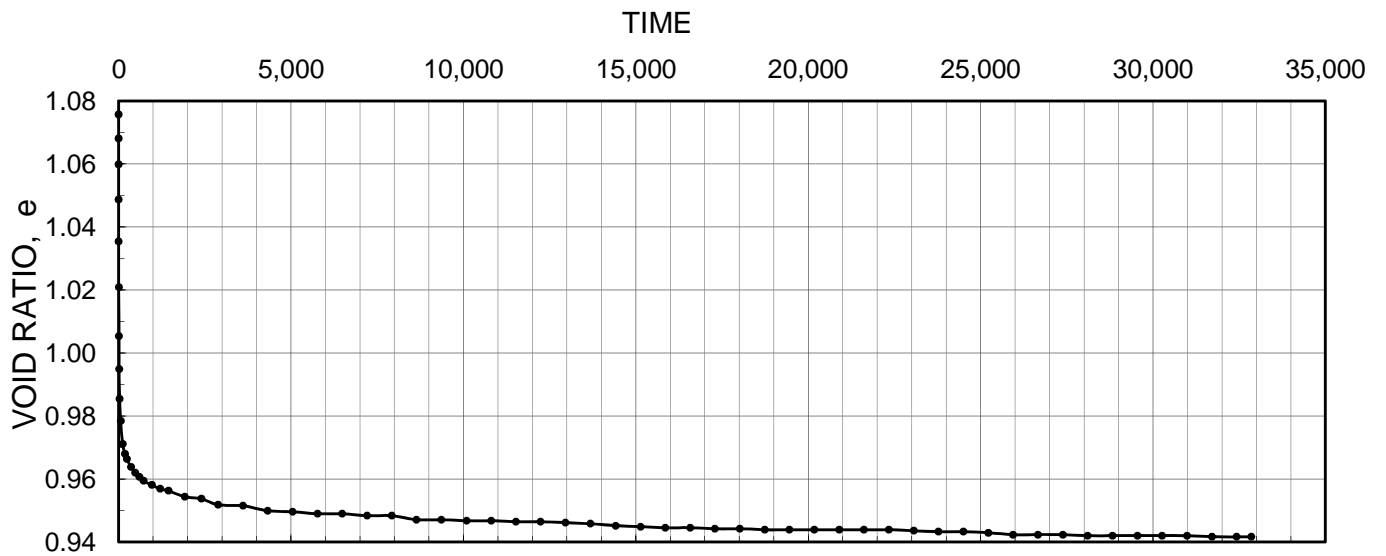
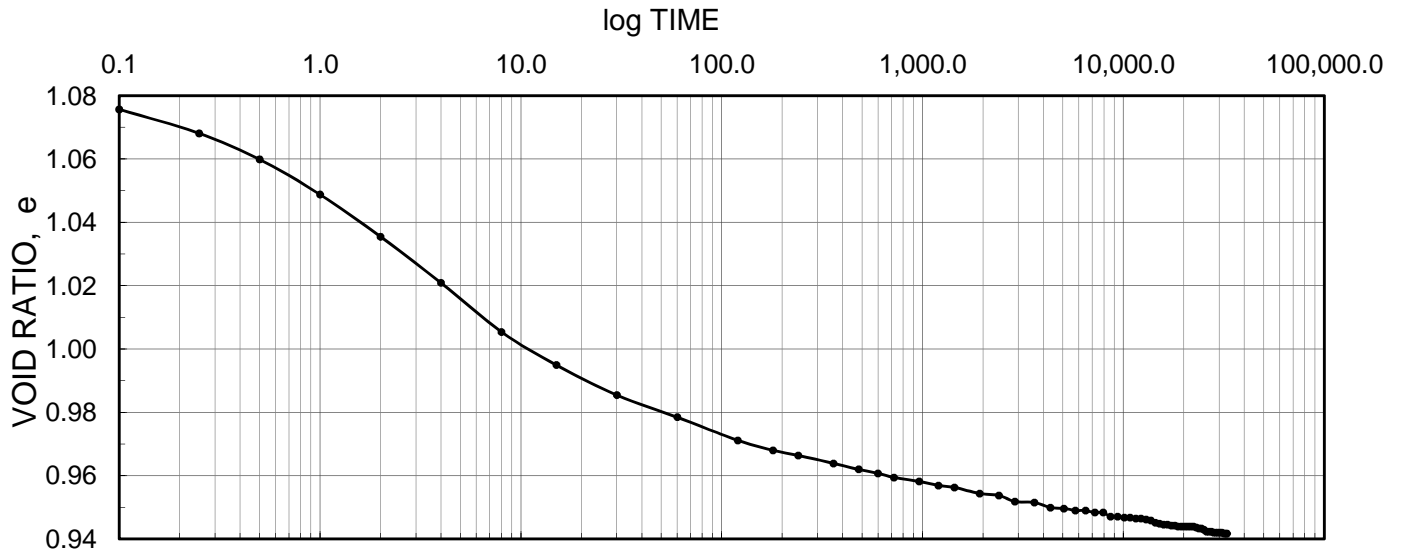


SCALE	AS SHOWN
DATE	11/29/13
CADD	N/A
ENTERED	MI
CHECK	CNM
REVIEW	MIC

TITLE	<b>CONSOLIDATION TEST RESULTS</b>
FIGURE	

FILE No.	Consolidation summary
PROJECT No.	12-1125-0045
REV.	3

**PRESSURE = 276 kPa**



**LEGEND**

Borehole: 12-1-3	$w_i = 53.9\%$	$S_o = 99\%$
Sample: 2	$w_f = 36.9\%$	$C_{\alpha} = 0.011$
Depth (m): 6.35	$w_l = 23\% *$	
	$w_p = NP *$	

\* : Limit specimen at 6.3m depth - Layered deposit

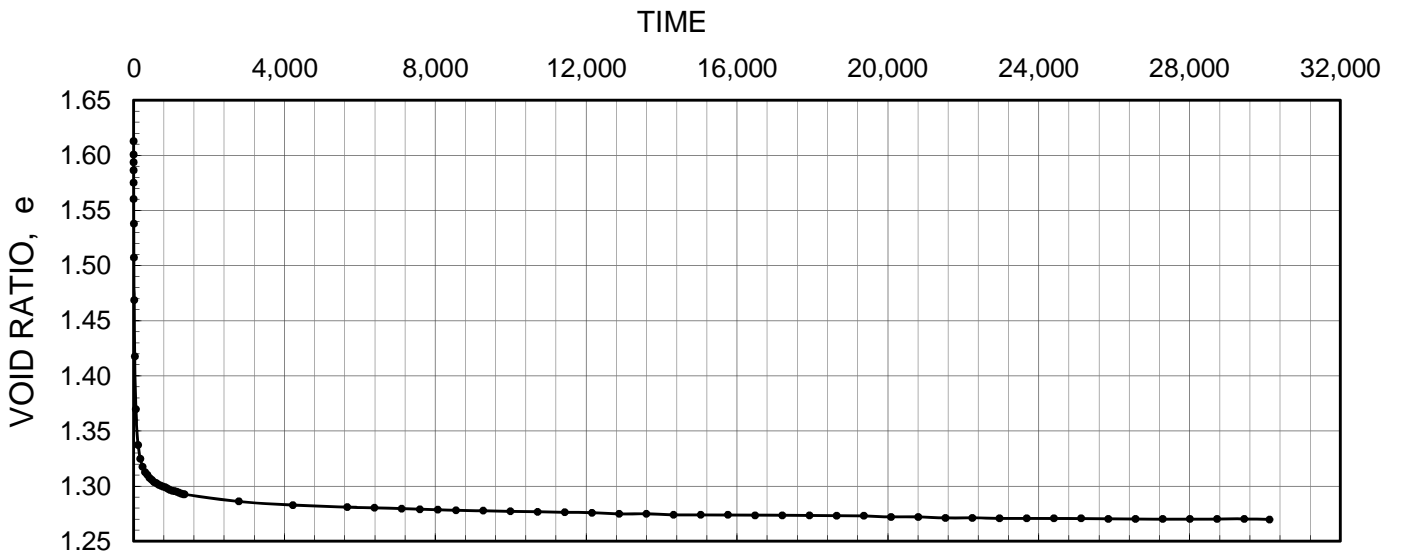
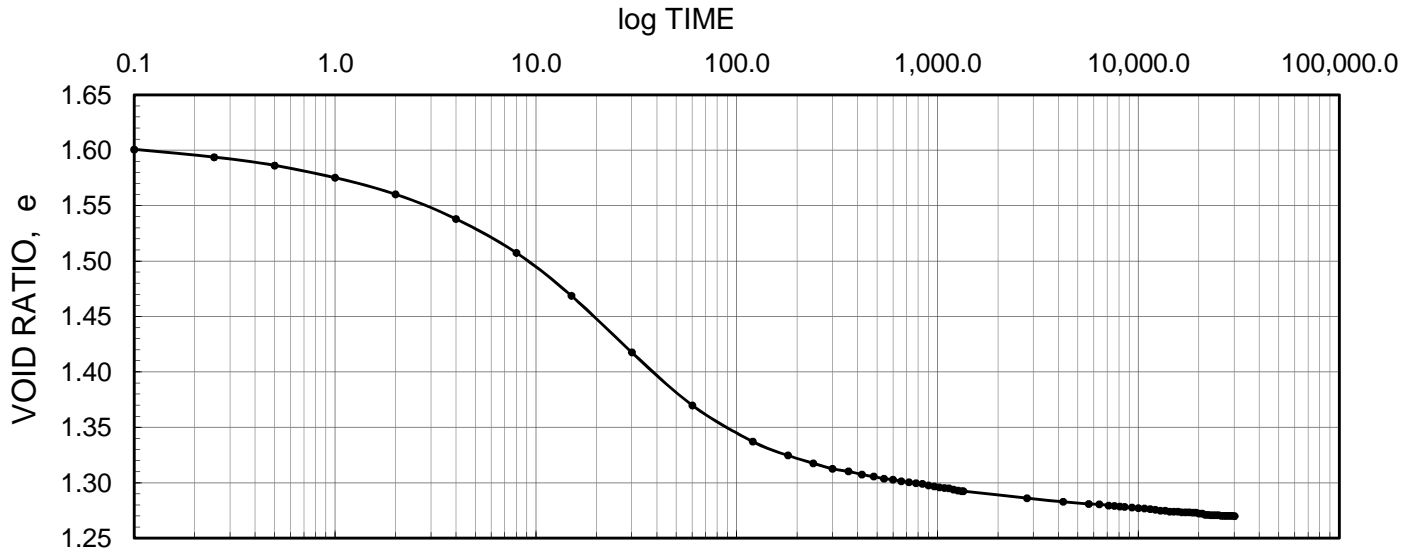


SCALE	AS SHOWN
DATE	11/29/13
DESIGN	N/A
CADD	MI
CHECK	CNM
REVIEW	MIC

TITLE	<b>SUMMARY OF SECONDARY COMPRESSION TEST</b>
FIGURE	

FILE No.	Consolidation summary
PROJECT No.	12-1125-0045
REV.	2

**PRESSURE = 280 kPa**



**LEGEND**

Borehole: 12-3-5	$w_i = 87.7\%$	$S_o = 100\%$
Sample: 1	$w_f = 57.1\%$	$C_{\alpha} = 0.019$
Depth (m): 5.60	$w_l = 83.2\%$	
	$w_p = 28.4\%$	



SCALE	AS SHOWN
DATE	11/29/13
DESIGN	N/A
CADD	MI
CHECK	CNM
REVIEW	MIC

TITLE	<b>SUMMARY OF SECONDARY COMPRESSION TEST</b>
FIGURE	<b>F21</b>

FILE No.	Consolidation summary
PROJECT No.	12-1125-0045
REV.	2