LABORATORY TESTING DATA SHEET

Project Name Portsmouth-Kittery (13678F)
Project No. 04.0024864.10
Project Manager M. Polsky

Location Portsmouth, NH
Assigned By C. Dusseault
Report Date 8/5/2011

Reviewed By
Date Reviewed 8/5/2011

Boring No.	Sample No.	Depth Ft.	Lab No.	Sample Data: Water Content %	Do in.	L in.	(1) Unit Wt. PCF	(2) Wet Density PCF	Bulk Gs.	Compression Tests: (3) Other Tests	(4) Strength KSI	(5) Strain %	(6) Conf. Stress	(7) E sec PSI EE+06	(8) Poisson's Ratio	στ KSI	Is_{50} KSI	Rock Formation or Description or Remarks
B-1	C-1	29.2-29.6	1		1.976	4.570	171.5			U	24.62	0.30		8.05	0.30			
B-1	C-2	36.4-36.8	2		1.979	4.582	173.0			U	8.29	0.19		4.63	0.33			
B-3	C-2	12.6-13.0	3		1.980	4.558	169.3			U	7.47	0.14		4.52	0.17			
B-3	C-1	6.7-7.1	4		1.976	4.572	180.2			U	7.34	0.19		4.03	0.17			
B-5	C-2	20.6-21.0	5		1.988	4.577	172.3			U	10.15	0.18		5.32	0.59			Sample has calcified joints/fractures
B-5	C-3	23.3-23.7	6		1.986	4.561	171.1			U	27.76	0.33		7.97	0.25			
B-6	C-2	30.9-31.3	7		1.986	4.565	169.0			U	6.78	0.11		5.71	0.16			
B-6	C-3	37.6-38.0	8		1.989	4.561	172.4			U	6.44	0.13		5.99	0.82			*Note: Sample cracked at 2.1 KSI stress (μ = .28)*

(1) Volume Determined By Measuring Dimensions
(2) Determined by Measuring Dimensions and Weight of Saturated Sample

(3) P=Petrographic PLD=Point Load (diametrical), PLA= Point Load (Axial) RST= Splitting Tensile U= Unconfined Compressive Strength
(4) Taken at Peak Deviator Stress

(5) Strain at Peak Deviator Stress
(6) Represents Confining Stress on Triaxial Tests
(7) Represents Secant Modulus at 50% of Total Failure Stress
(8) Represents Secant Poisson's Ratio at 50% of Total Failure Stress

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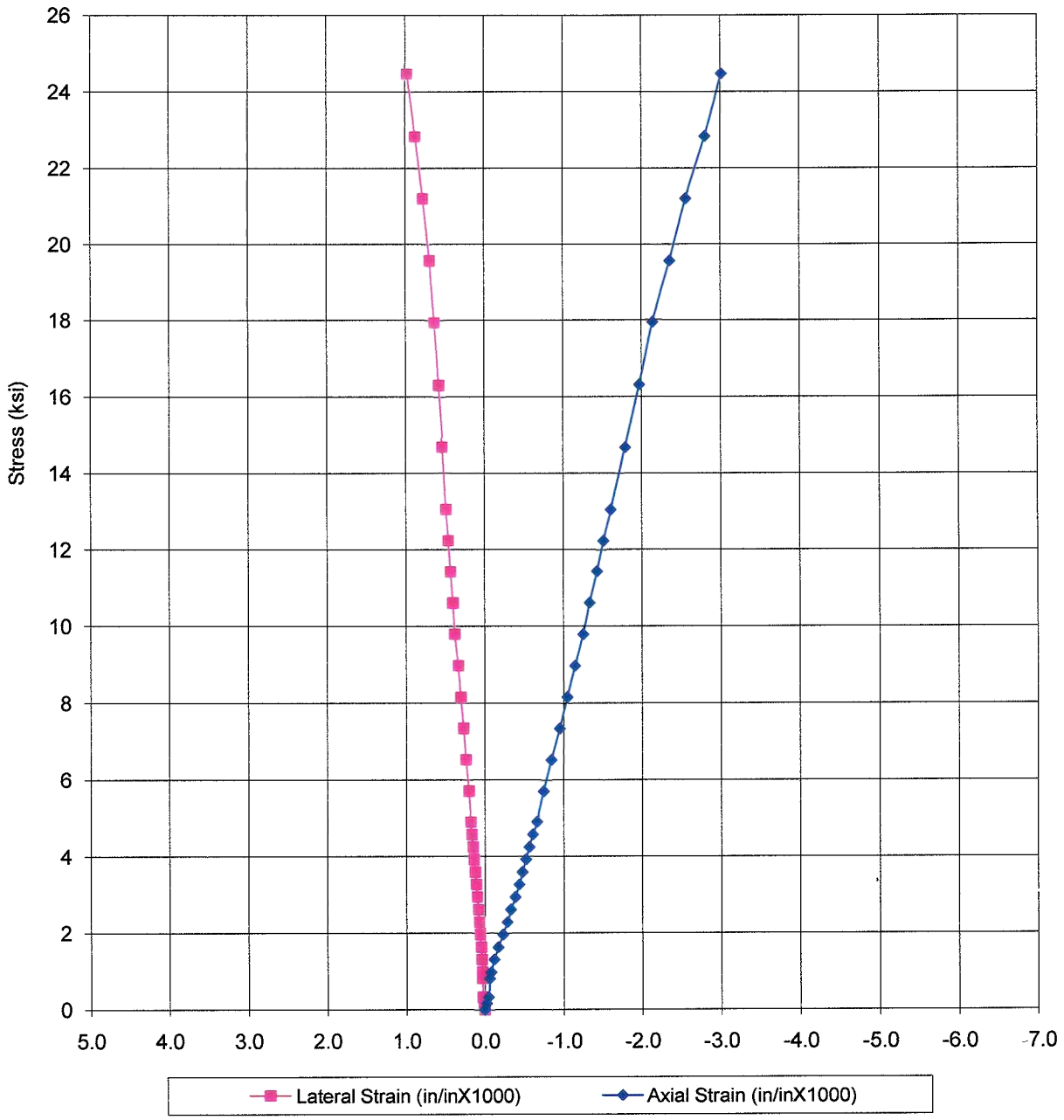

Rock Testing

Boring No. B-1
Sample No. C-1
Depth: 29.2-29.6'

File No. 04.0024864.10
Date: 08/03/11
Test No. U 1

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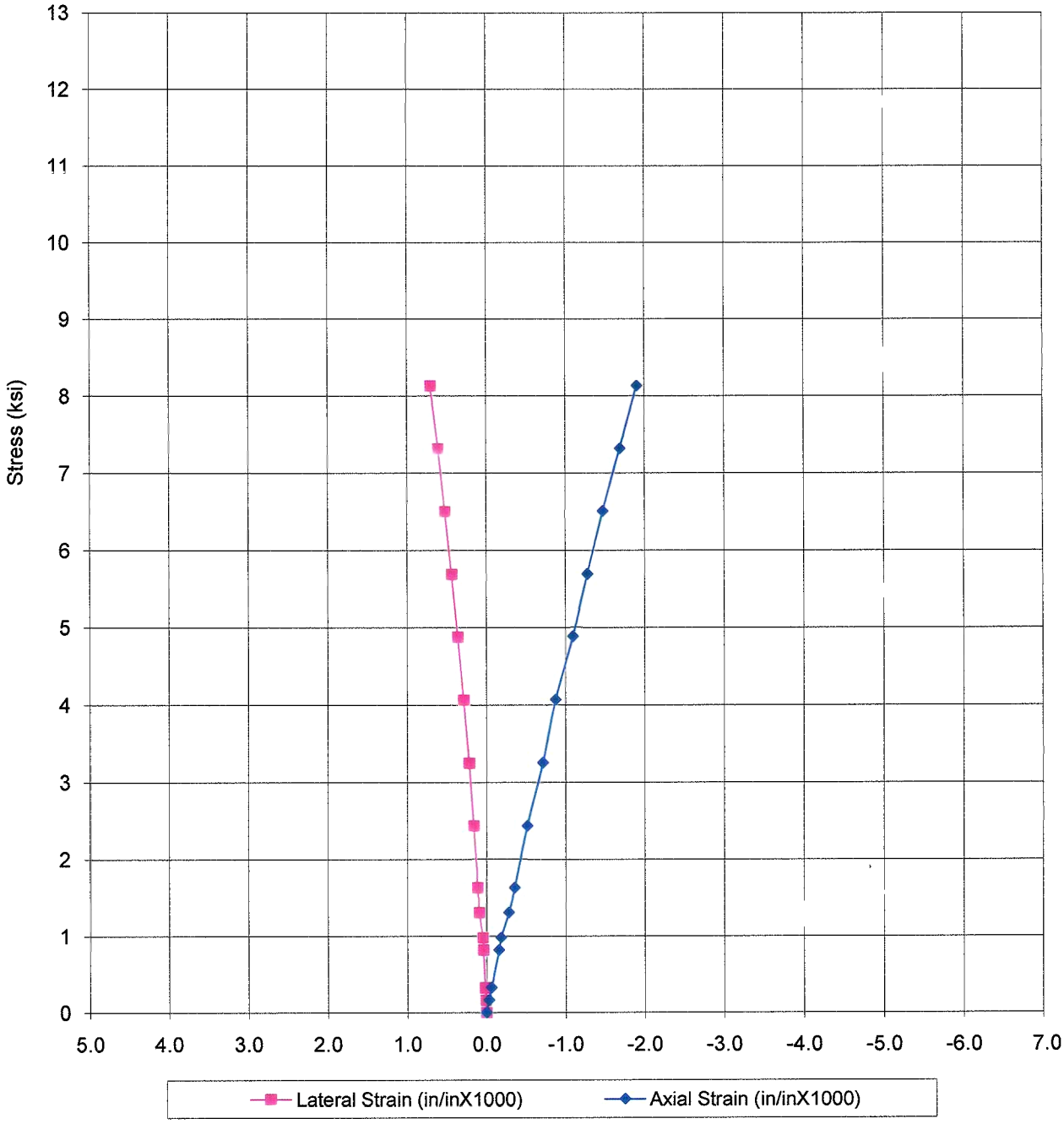

Rock Testing

Boring No.	B-1	File No.	04.0024864.10
Sample No.	C-2	Date:	08/03/11
Depth:	36.4-36.8'	Test No.	U 2

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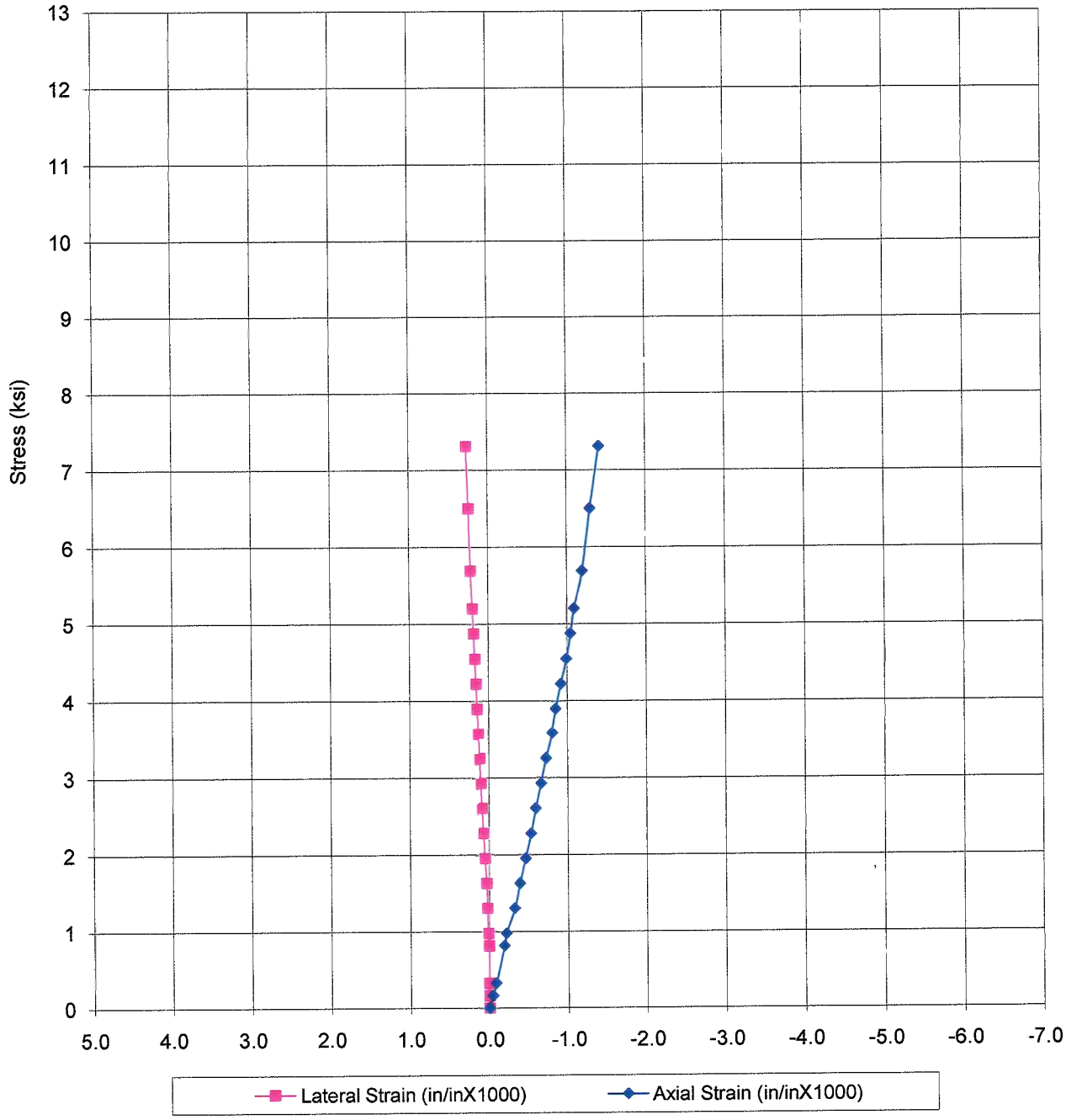

Rock Testing

Boring No. B-3
Sample No. C-2
Depth: 12 6-13.0'

File No. 04.0024864.10
Date: 08/03/11
Test No. U 3

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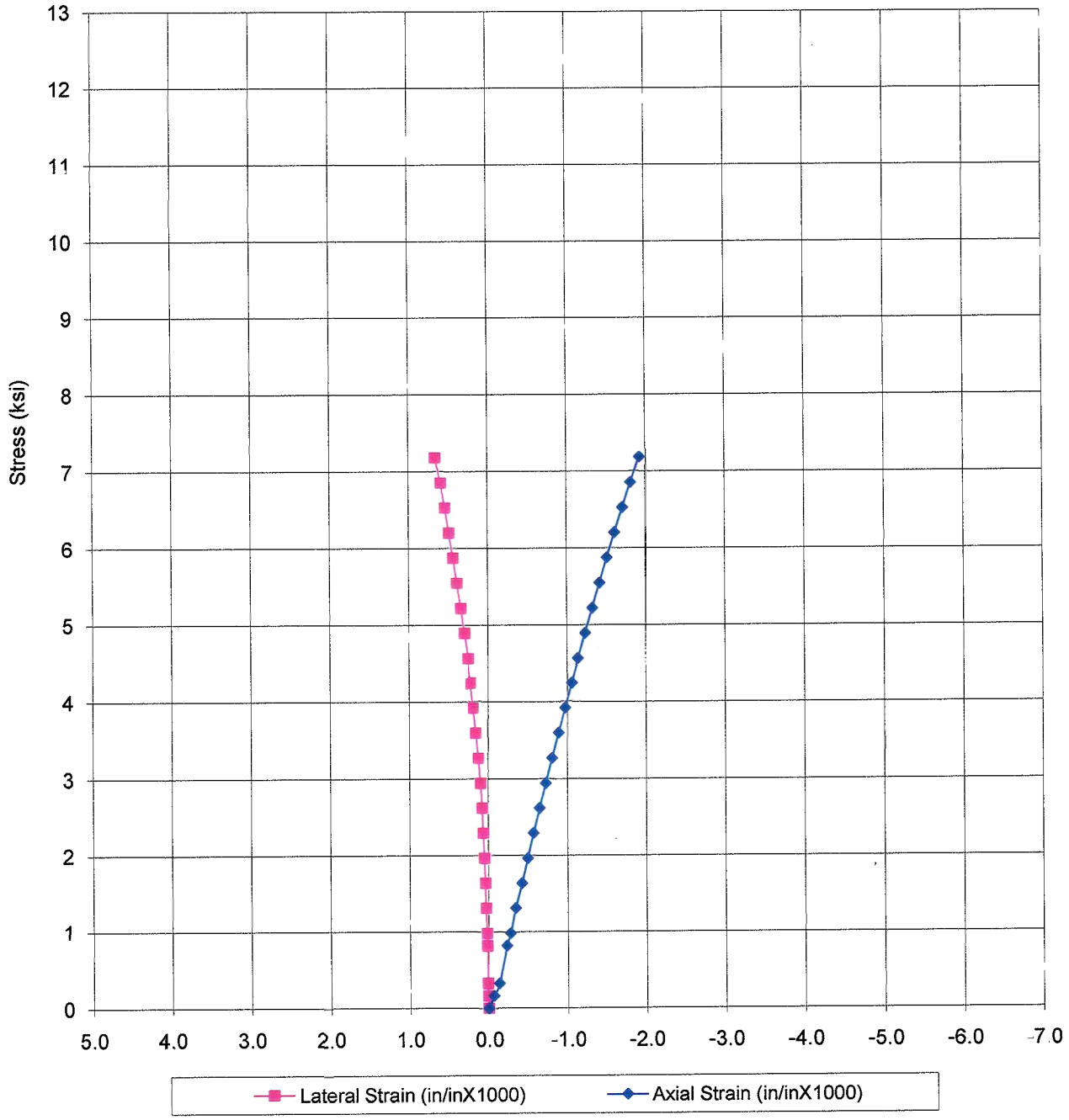

Rock Testing

Boring No. B-3
Sample No. C-1
Depth: 6.7-7.1'

File No. 04.0024864.10
Date: 08/03/11
Test No. U 4

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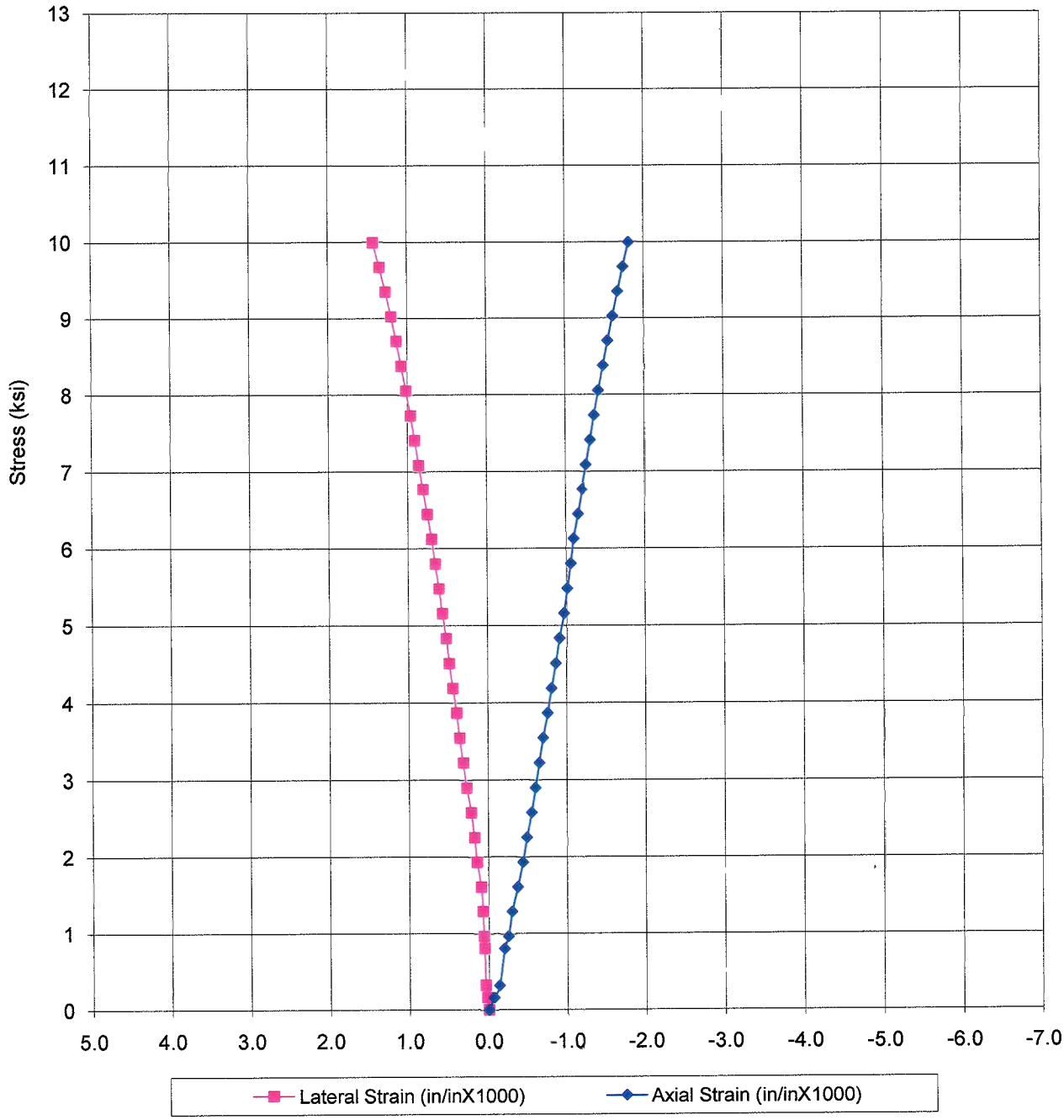

Rock Testing

Boring No. B-5
Sample No. C-2
Depth: 20.6-21.0'

File No. 04.0024864.10
Date: 08/03/11
Test No. U 5

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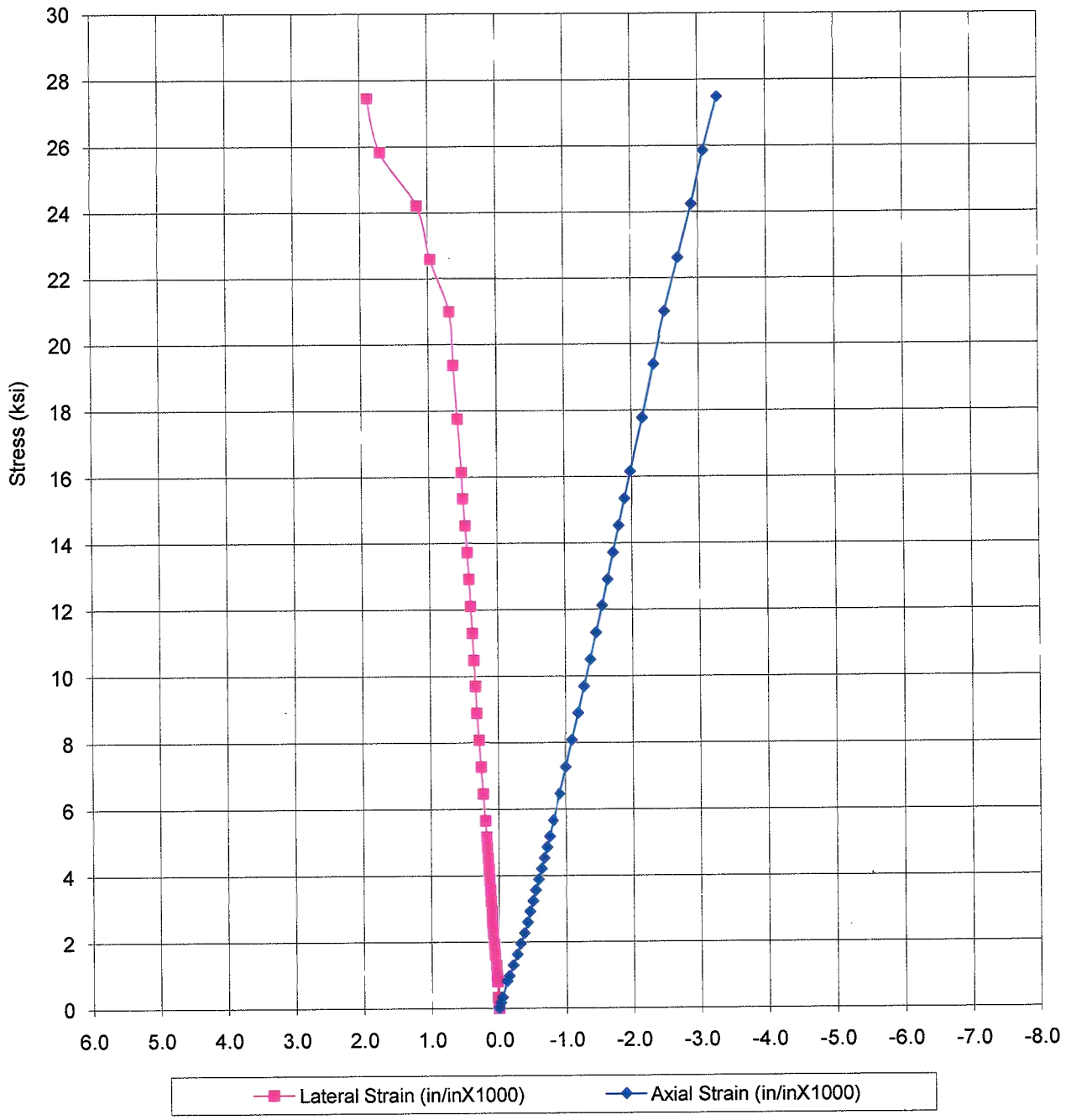

Rock Testing

Boring No. B-5
Sample No. C-3
Depth: 23.3-23.7'

File No. 04.0024864.10
Date: 08/04/11
Test No. U 6

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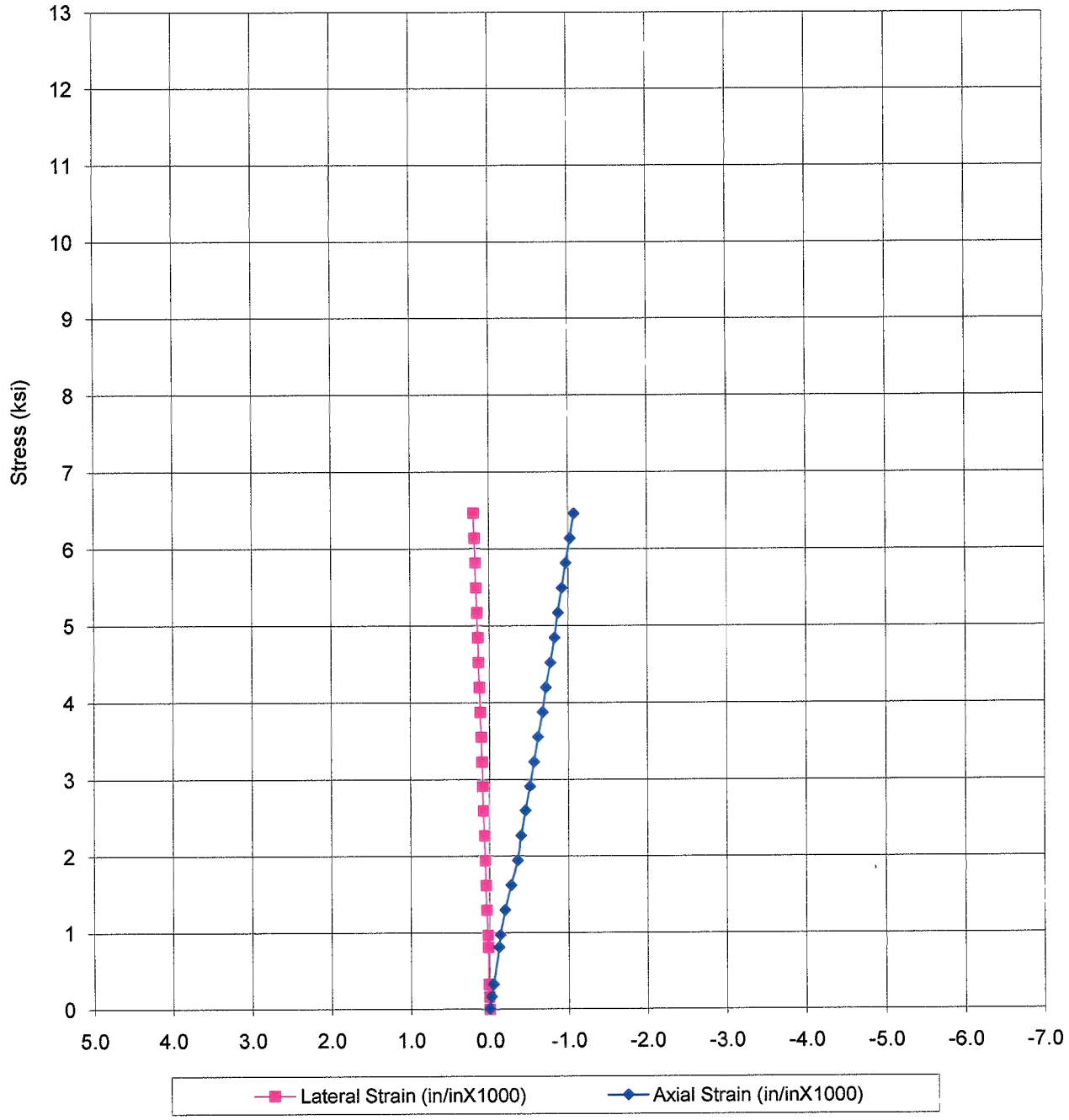

Rock Testing

Boring No. B-6
Sample No. C-2
Depth: 30.9-31.3'

File No. 04.0024864.10
Date: 08/04/11
Test No. U 7

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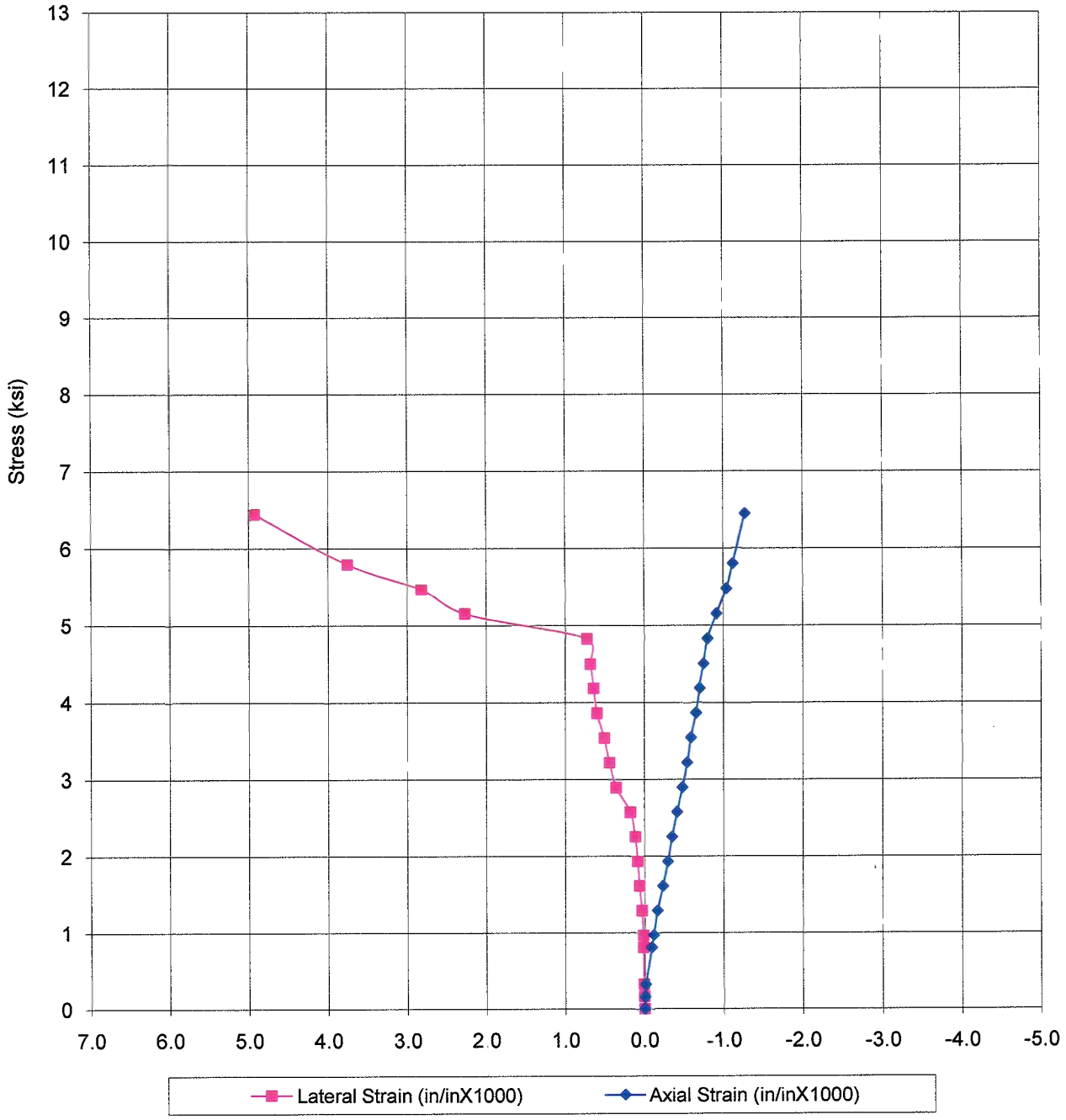

Rock Testing

Boring No.	B-6	File No.	04.0024864.10
Sample No.	C-3	Date:	08/04/11
Depth:	37.6-38.0'	Test No.	U 8

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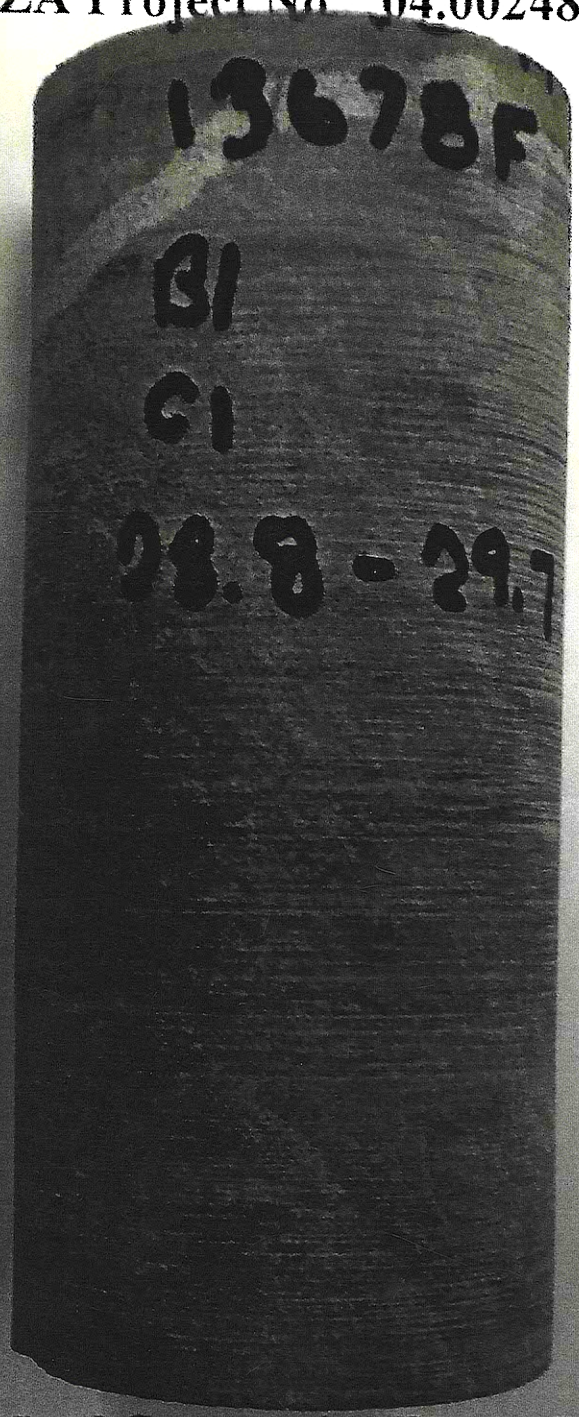

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-1	29.2-29.6'	C-1

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Unconfined Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-1	29.2-29.6	C-1

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Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-1	36.4-36.8'	C-2

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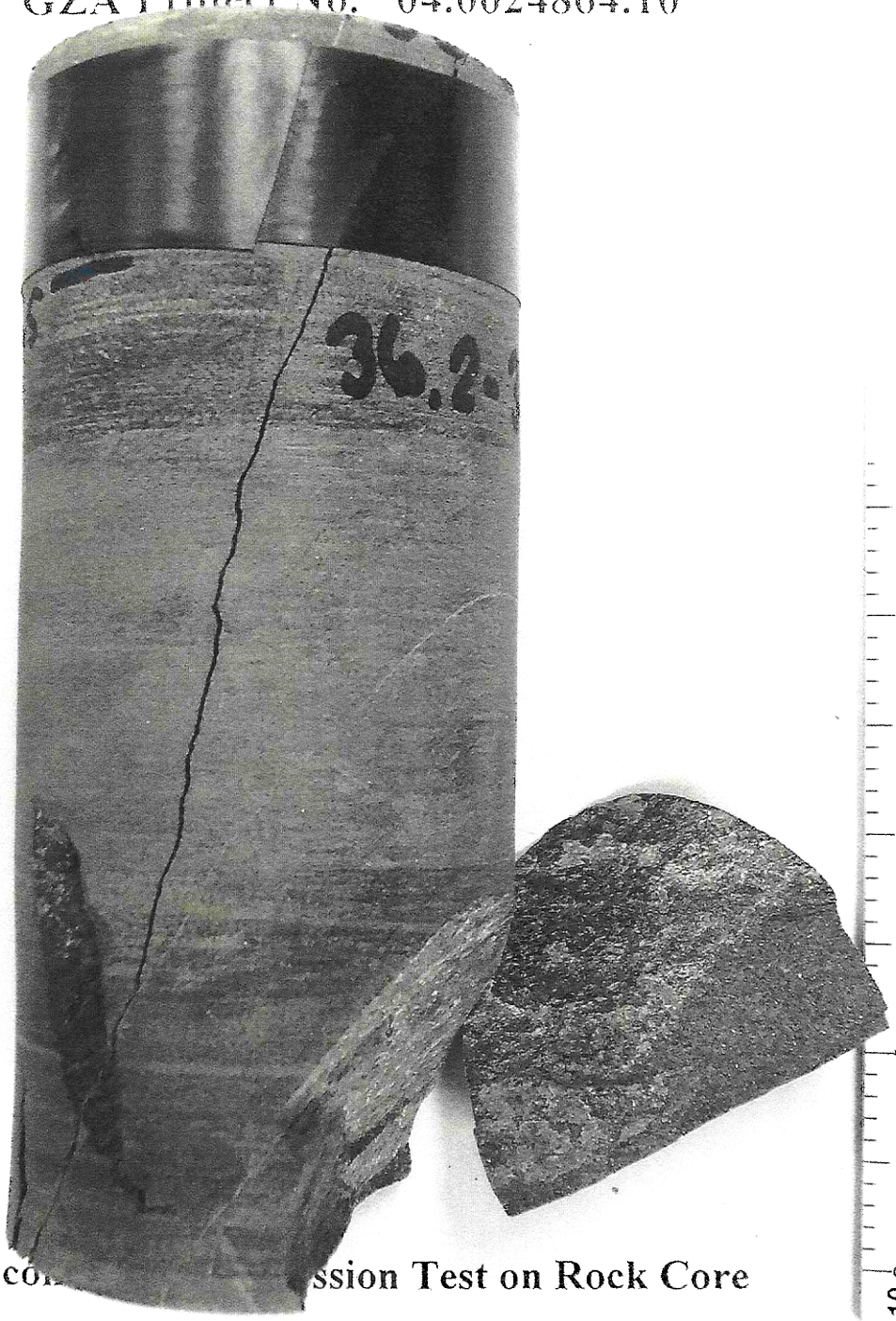

Unco ssion Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-1	36.4-36.8'	C-2

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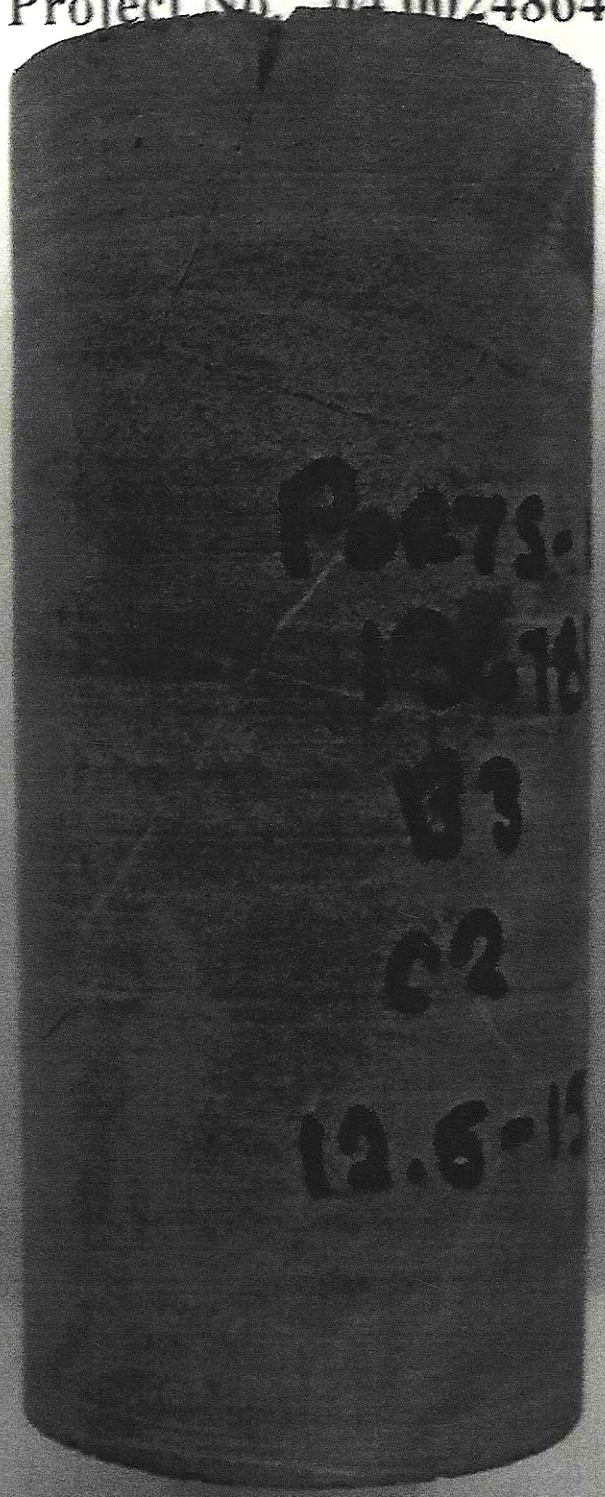

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-3	12.6-13.0	C-2

Portsmouth-Kittery 13678F
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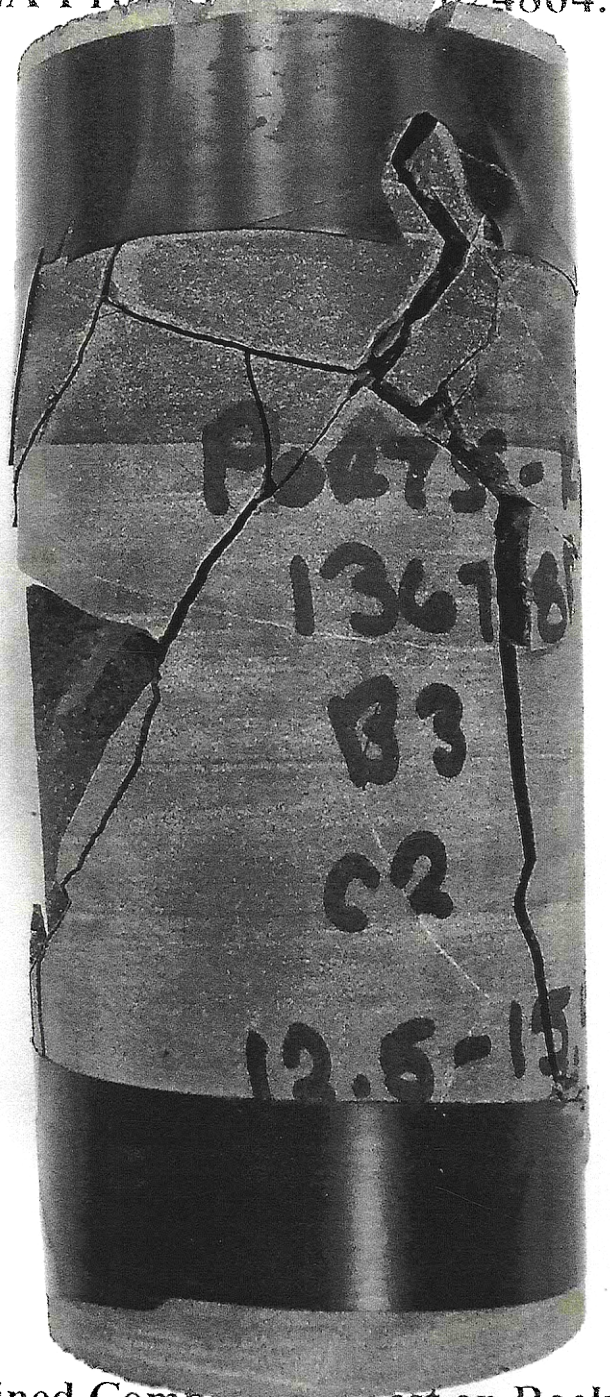
GZA Project [illegible]024864.10



Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-3	12.6-13.0'	C-2

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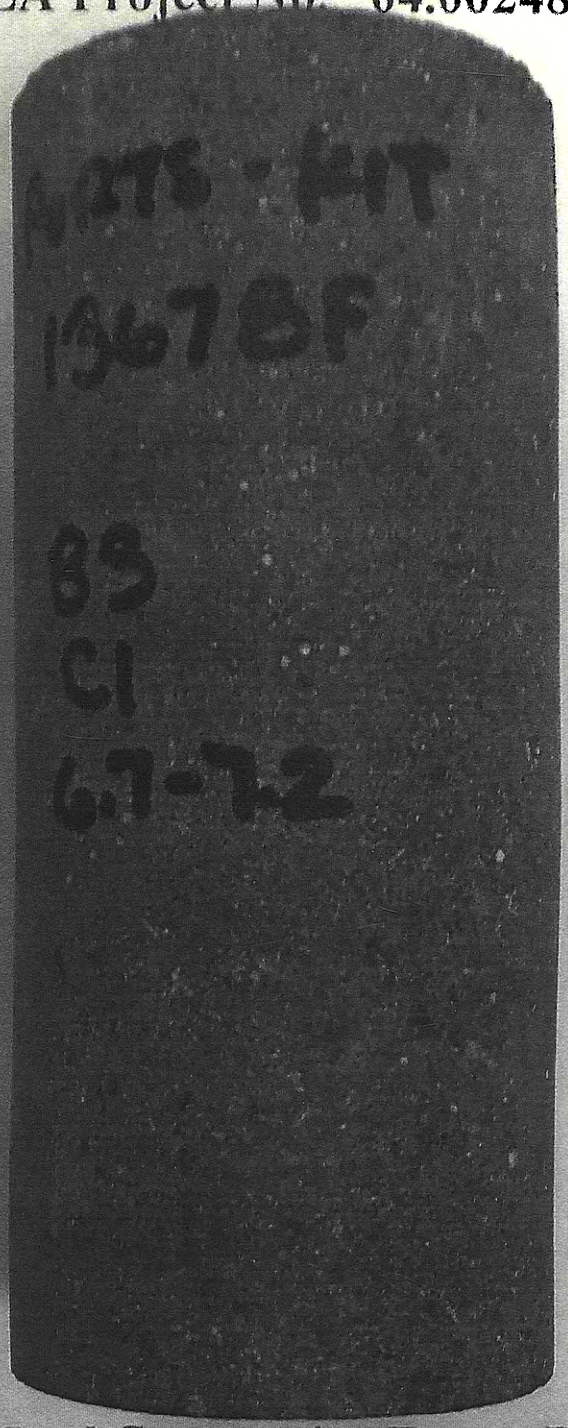

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-3	6.7-7.1	C-1

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Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-3	6.7-7.1	C-1

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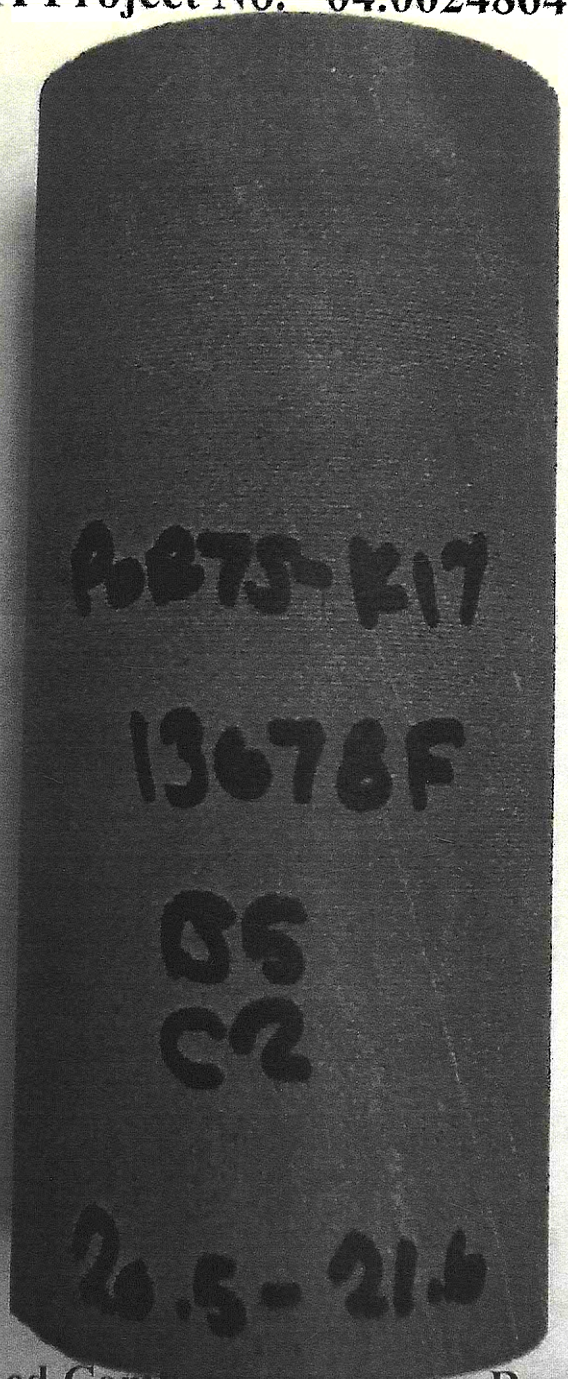

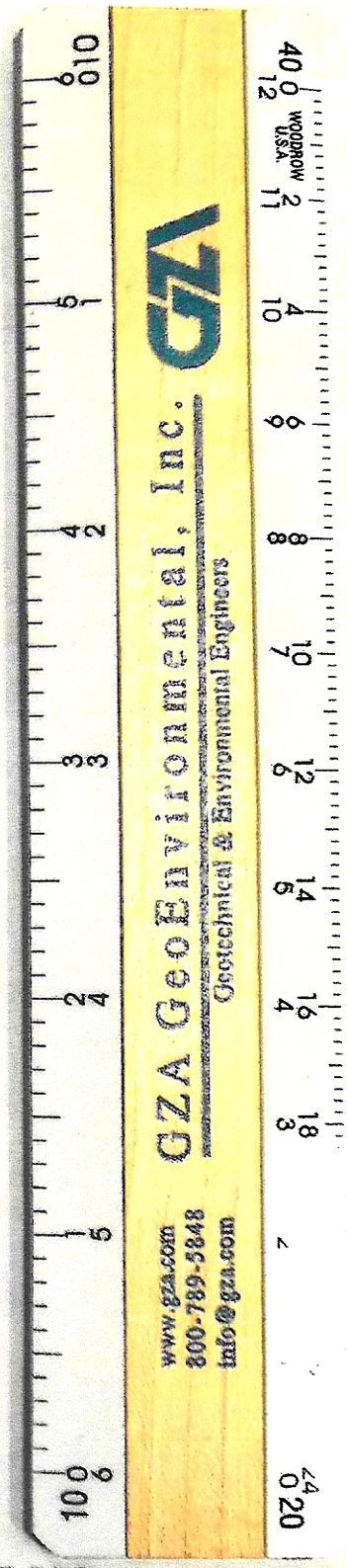

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-5	20.6-21.0'	C-2

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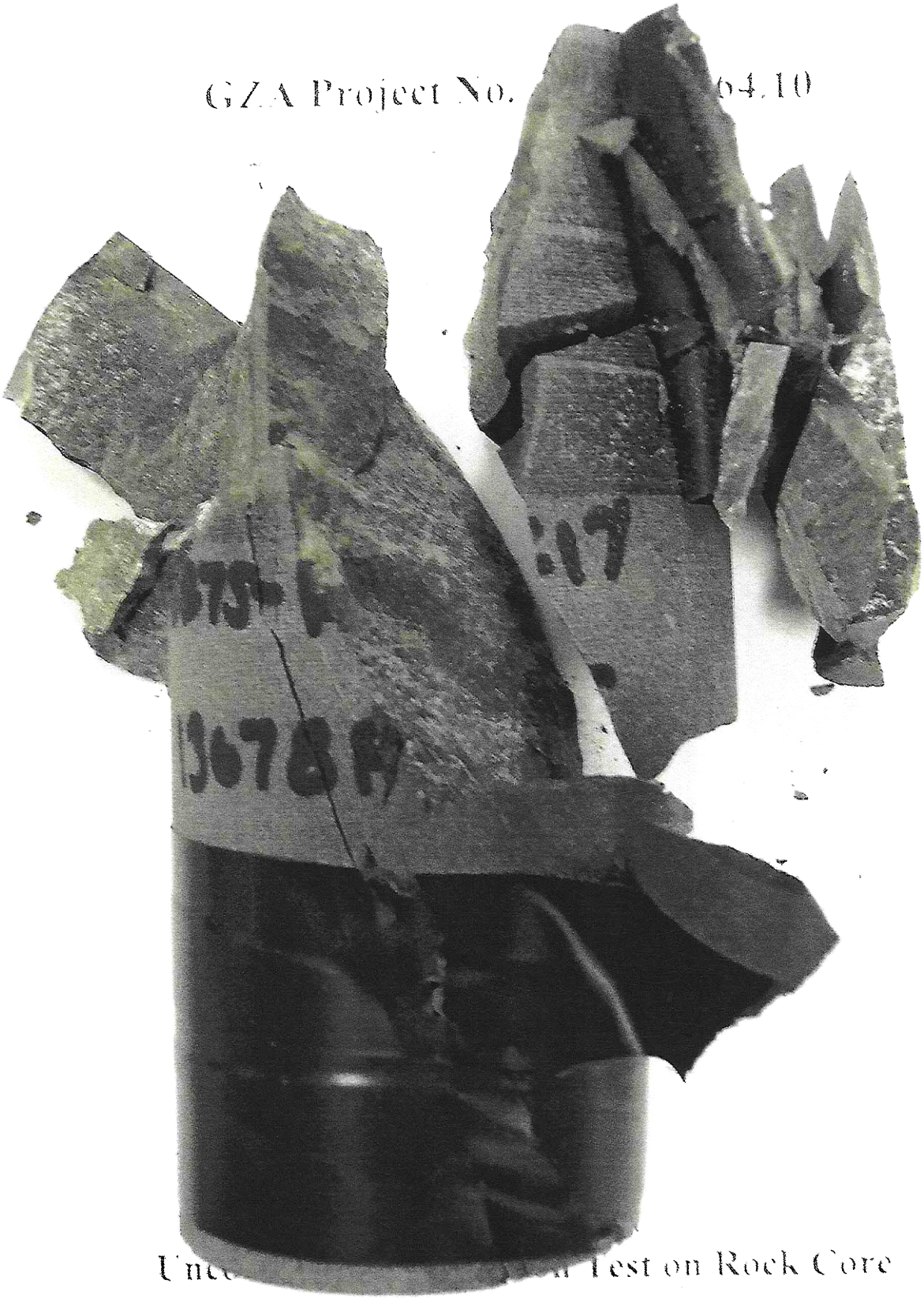

Unc[illegible] Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-5	20.0-21.0	C-2

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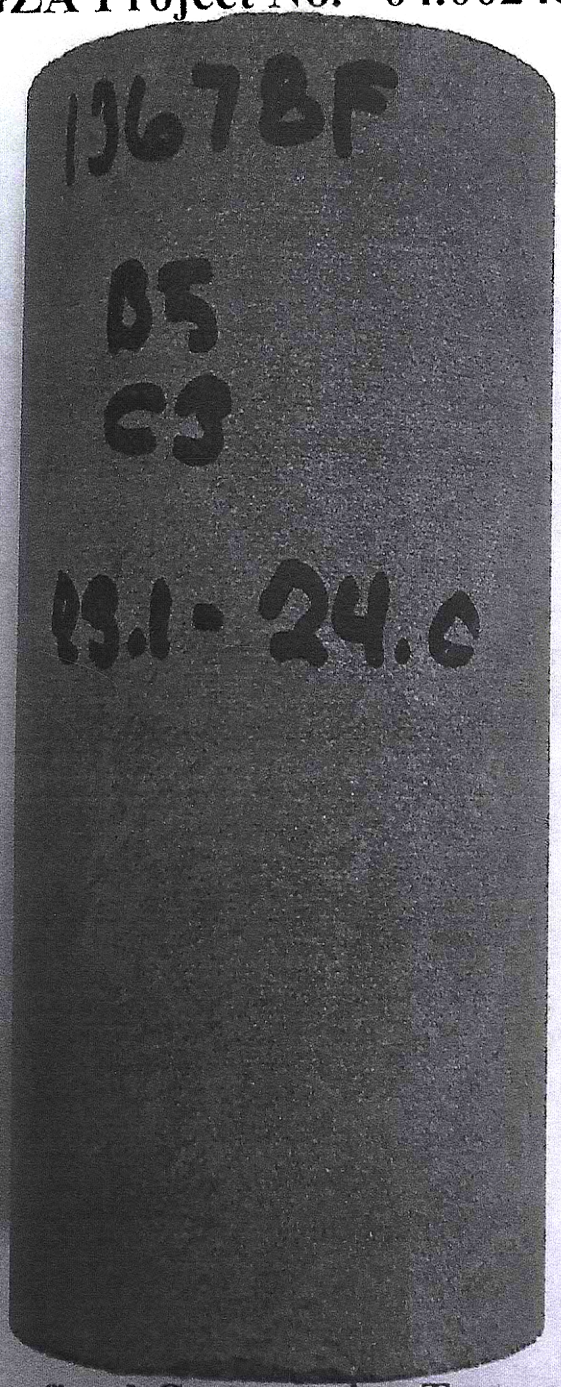

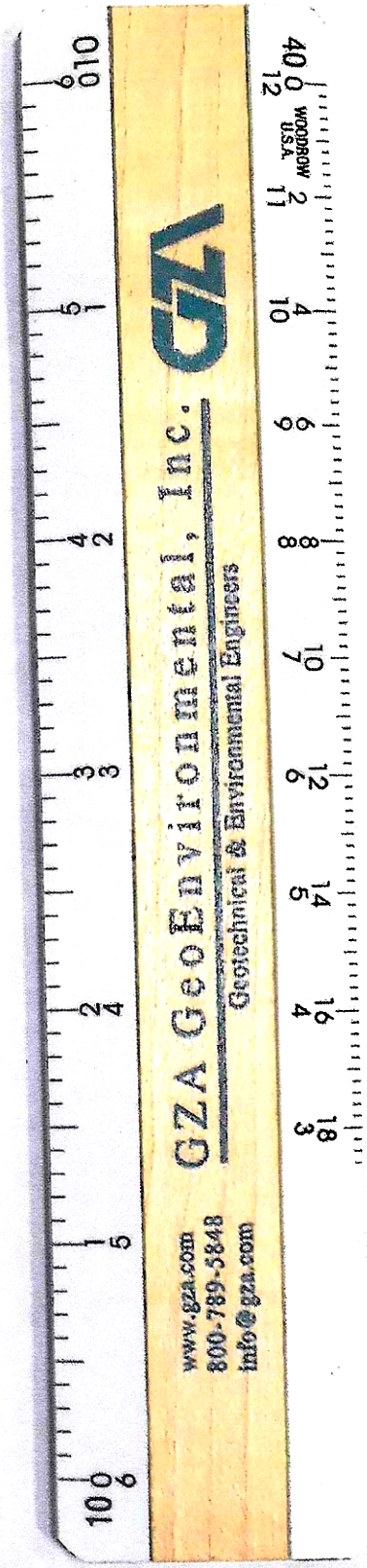

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-5	23.3 - 23.7	C-3

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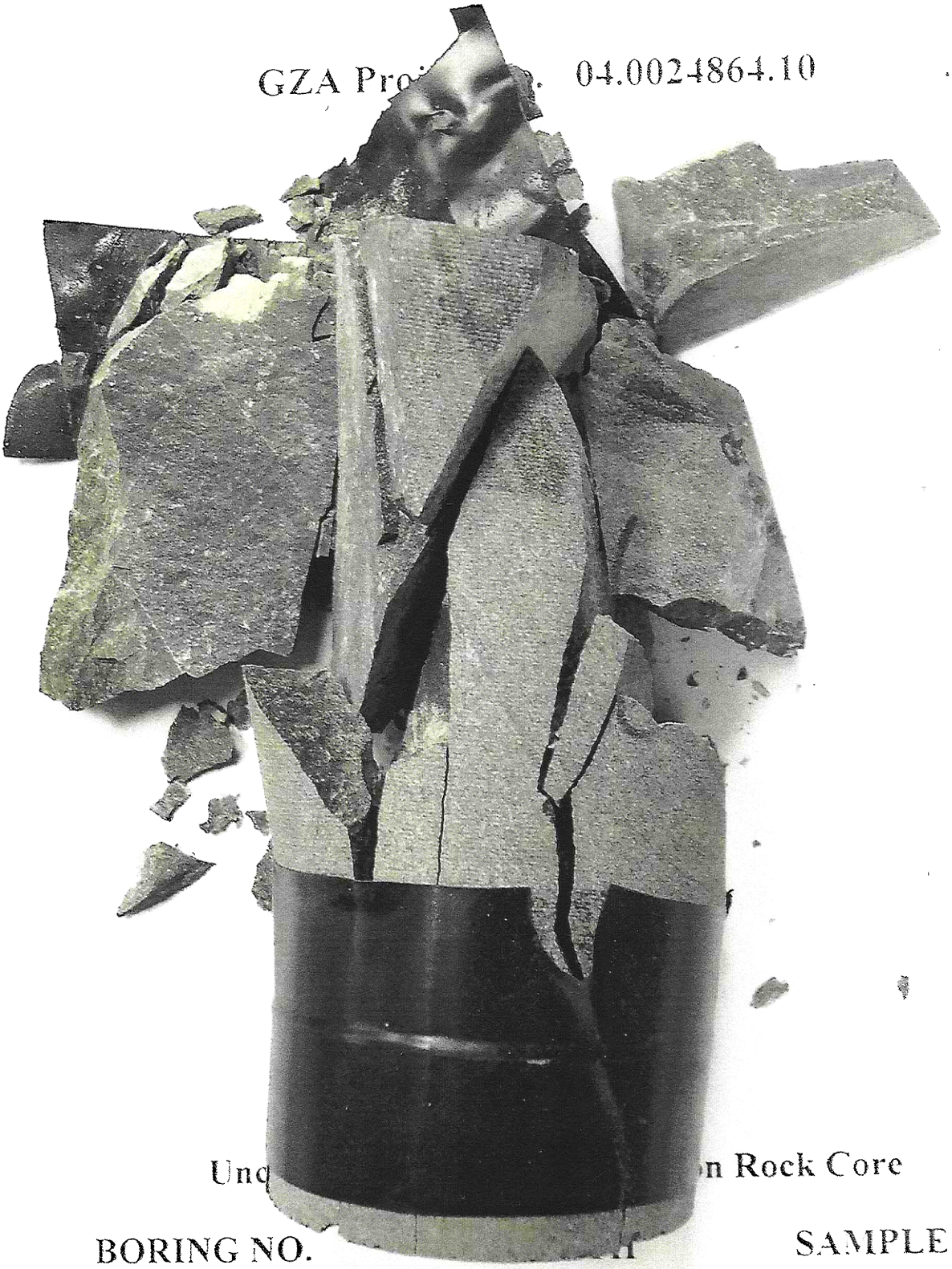
GZA Pro[illegible] 04.0024864.10



Und[illegible]n Rock Core

BORING NO.	[illegible]	SAMPLE NO.
B-5	23.3 -23.7	C-3

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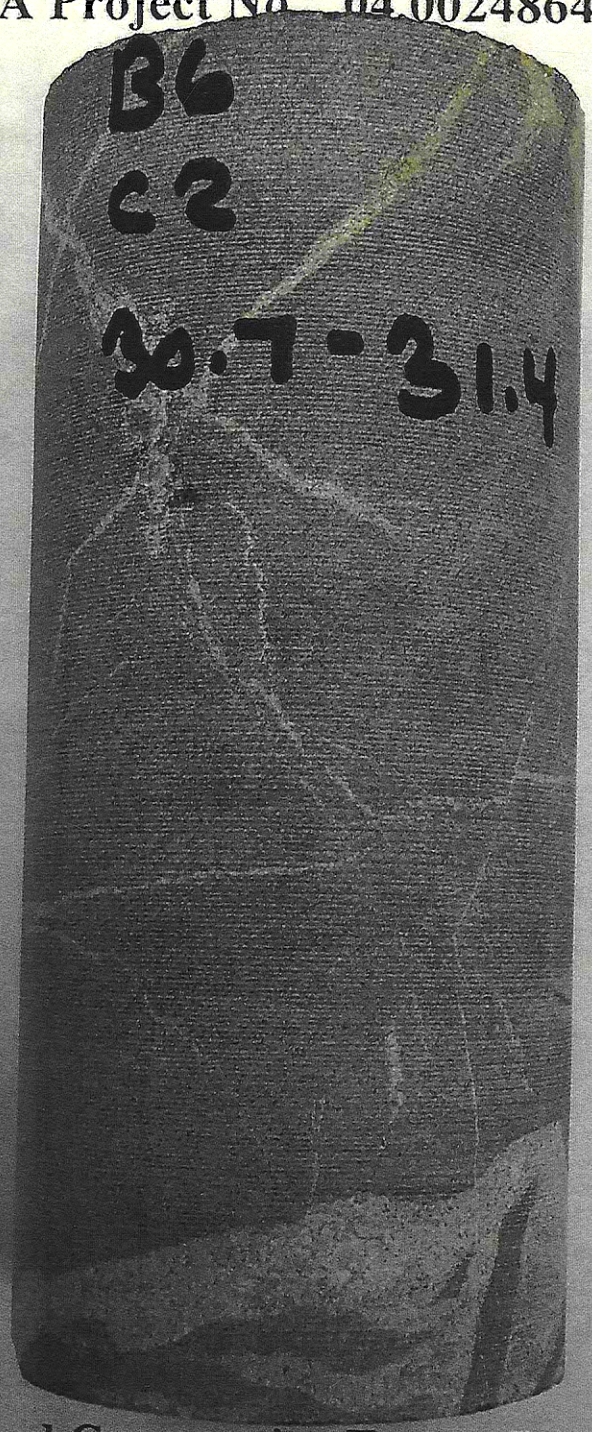

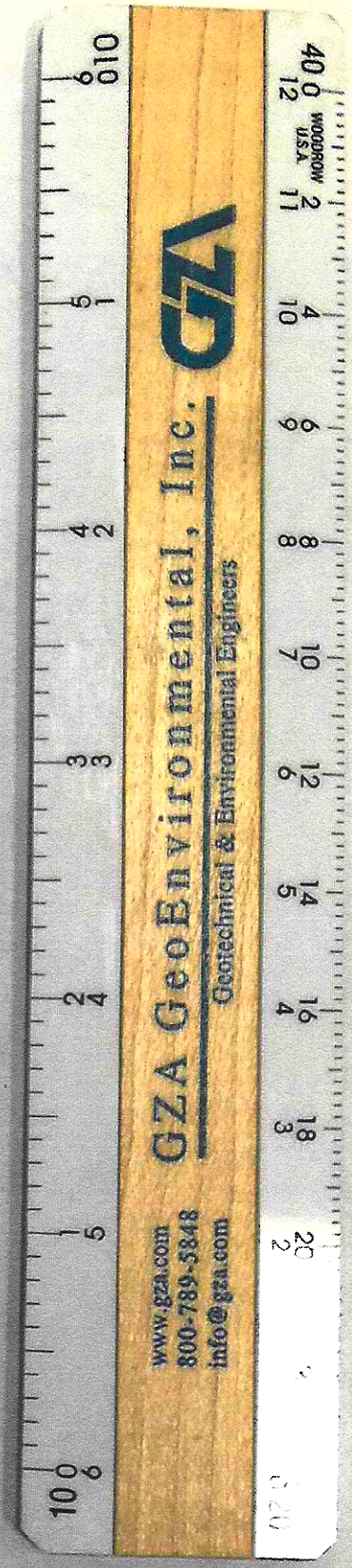

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-6	30.9-31.3	C-2

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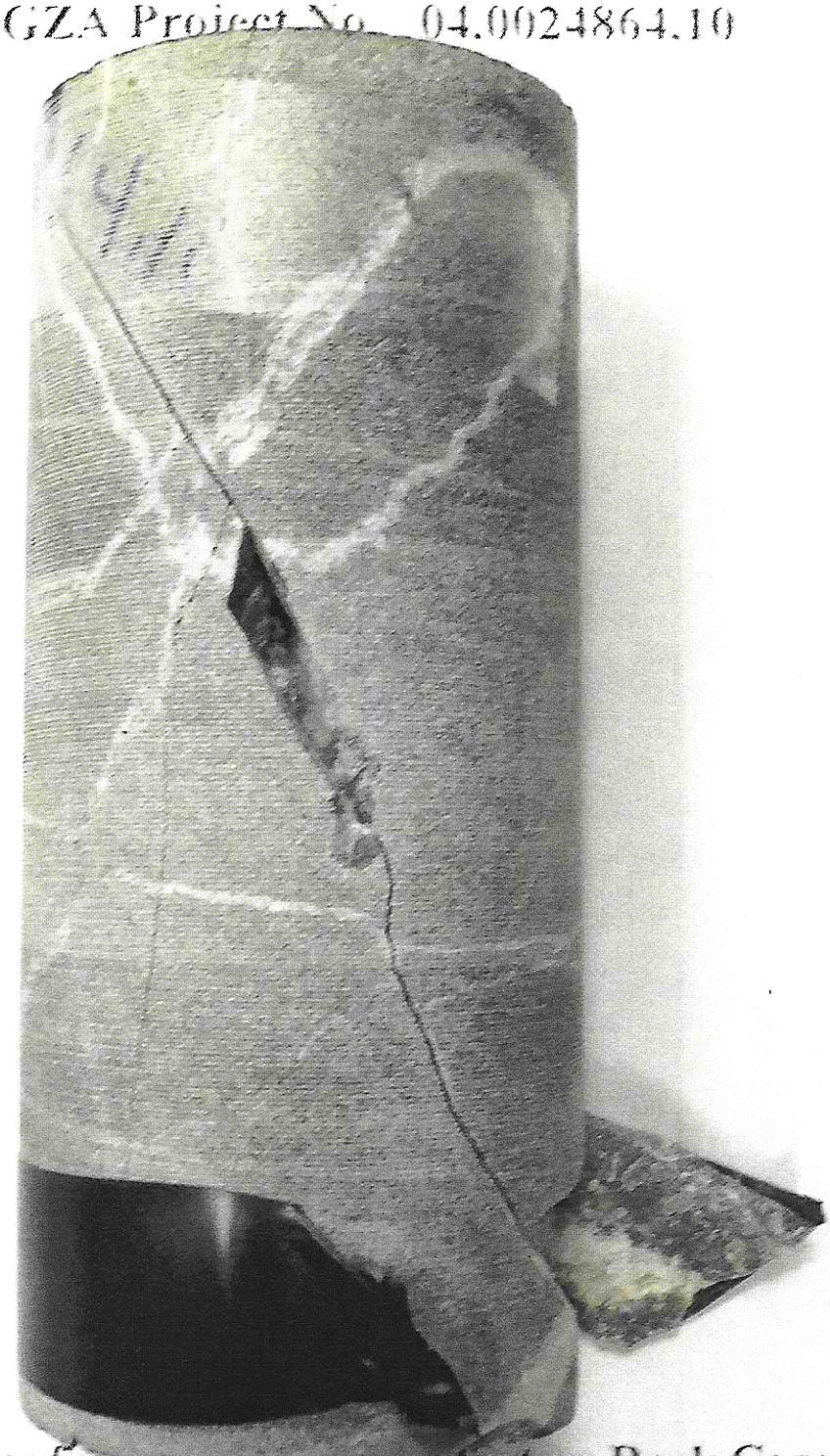

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-6	30.9-31.3'	C-2

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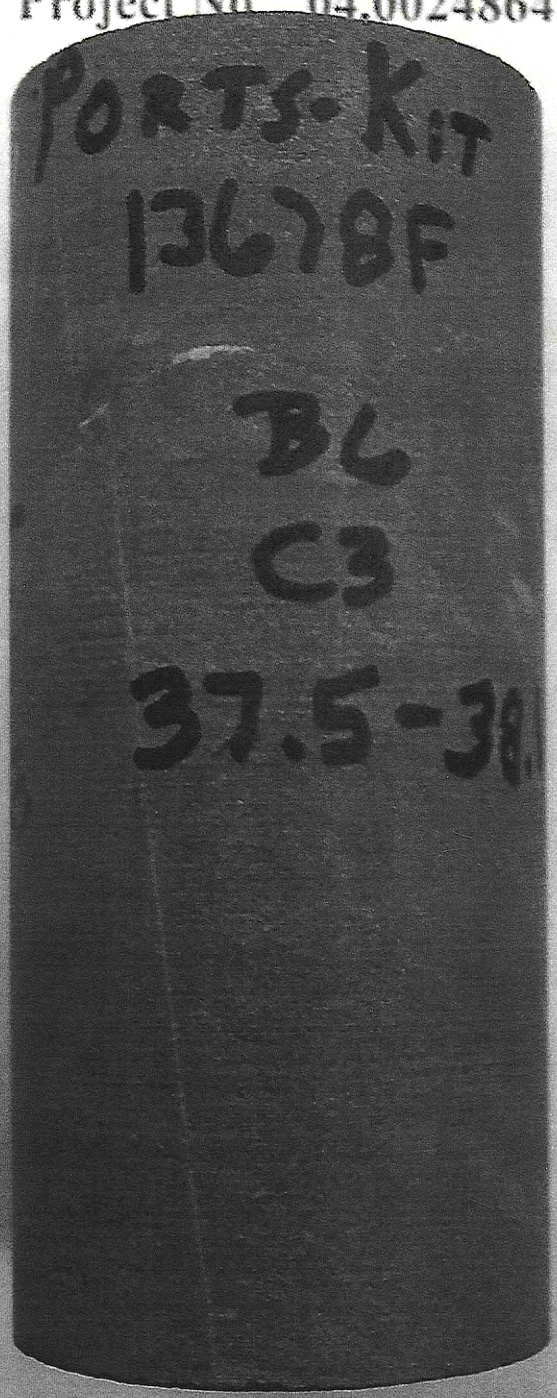

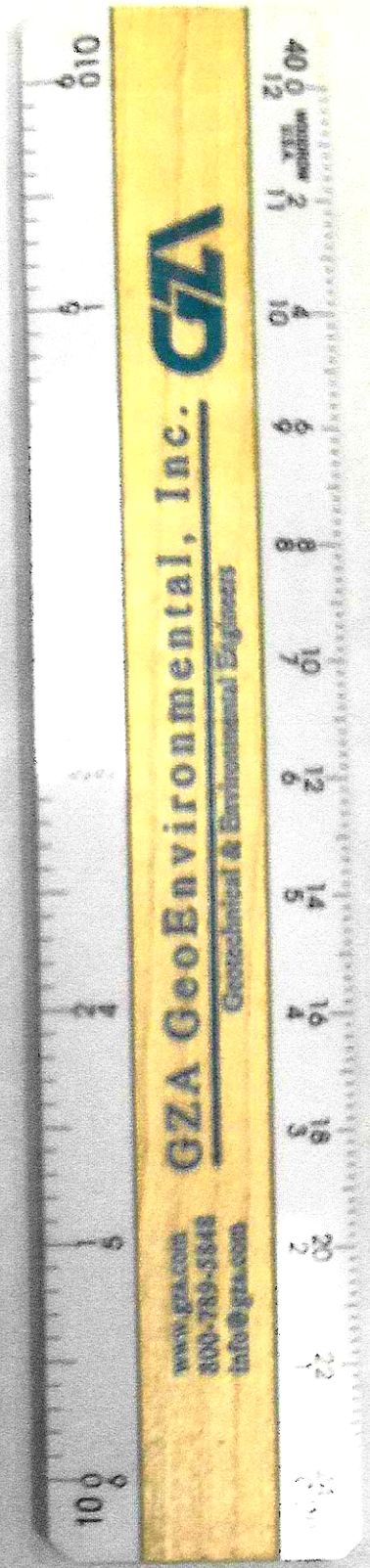

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-6	37.6-38.0'	C-3

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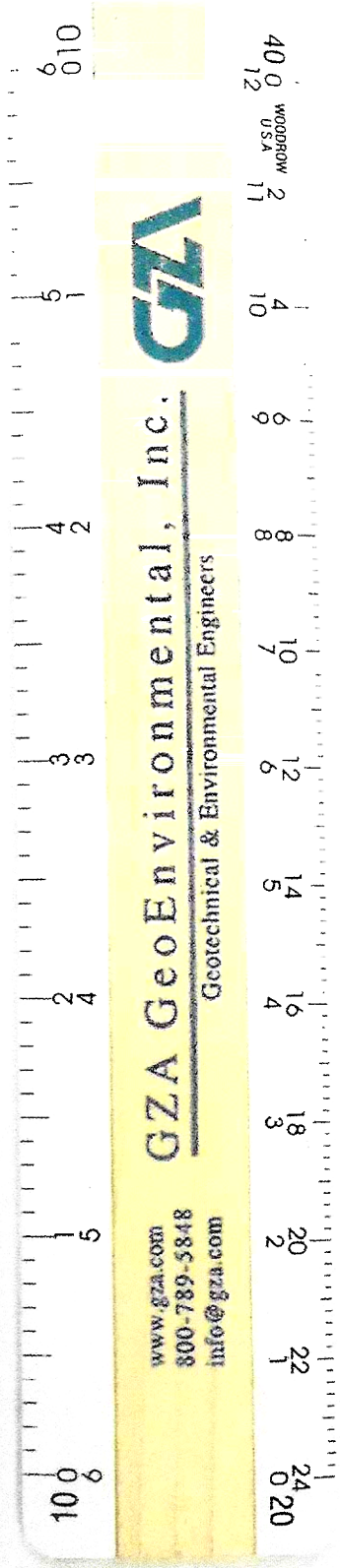

Unconfined Compression Test on Rock Core

BORING NO.	DEPTH	SAMPLE NO.
B-6	37.6-38.0'	C-3