

Core Log # AU-2102

Hurds Island Aurora, Illinois

C-122006-1A

2006

Written By: *Steven D.J. Baumann*



This publication is the first in a series of cores from the **Midwest Core Documentation Project** (MCDP). Its goal is to document cores from various locations throughout the Midwest in as much detail as possible for future uses. Such uses include: stratigraphic relationships, correlations, water resources, mineral resources, and educational endeavors.

CORE DESIGNATION: AU-2102

LOCATION of CORE: North America, United States, Illinois, T38N R8E Sec.28 NE1/4

GPS coordinates: 43.7500°N by 88.3245°W (Location of Island's Center)

ELEVATION; TOP of CORE: 617 feet above MSL

Ground Level: 640 feet above MSL

STORAGE LOCATION of CORE: At the residence of Steven Baumann

CORE ACQUIRED BY: Core was a temporary donation from NICOR Normal, IL in May of 2006. Originally designated SB-105.

PUBLICATION CONTENTS: This publication includes a brief introduction, photos of the actual cores, site location Map, a general stratigraphic column (Attachment A) , and original core logs (Attachment B).

PUBLICATION WRITTEN BY: Steven D.J. Baumann

INTRODUCTION:

This core's exact location on Hurds Island is not known. The core was drilled on 6/9/2004. The information on the core boxes indicated only depth. This is why the center of the island is used as a location.

Both the lower Silurian and upper Ordovician are represented. The Kankakee Formation (Troutman and Drummond Members) are definitely present. The whitish yellow clay layer near the top of the core being the stratigraphic point of orientation within the core.

Either the Elwood or Wilhelmi Formation is below and the top is marked by a corrosion surface. Stratigraphically the Elwood Formation should be present here. The core does more lithologically resemble the Elwood in grain size and purity. However, there is almost no chert present which is the key identifying characteristic of the Elwood. Although the Elwood is present in a quarry along I-88 just 5 miles to the north. It is possible that this interval is a non-chert facies of the Elwood and is classified in this report as part of the Elwood.

Core has a total run of 36 feet.

REFERENCES:

ISGS publication: B-24, 1914

ISGS publication: RI-218, 1964

ISGS publication: C-479, 1973

ISGS Well Log #: API-120893540200

ISGS Surficial Geology Map of Aurora North, 2001

Core Log#: AU-2102

Date of Report: 12-01-2006



Core Run #: 1 of 4



Corrosion Surface

Prominent Clay that appears throughout the Troutman Member at about the halfway point (a possible bentonite).

Core Run #: 2 of 4



Core Run #: 3 of 4

Ordovician
↓

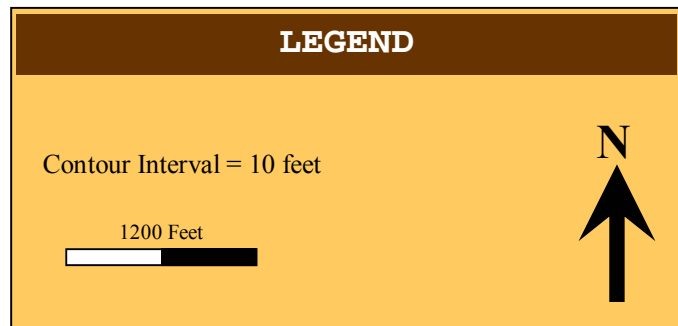
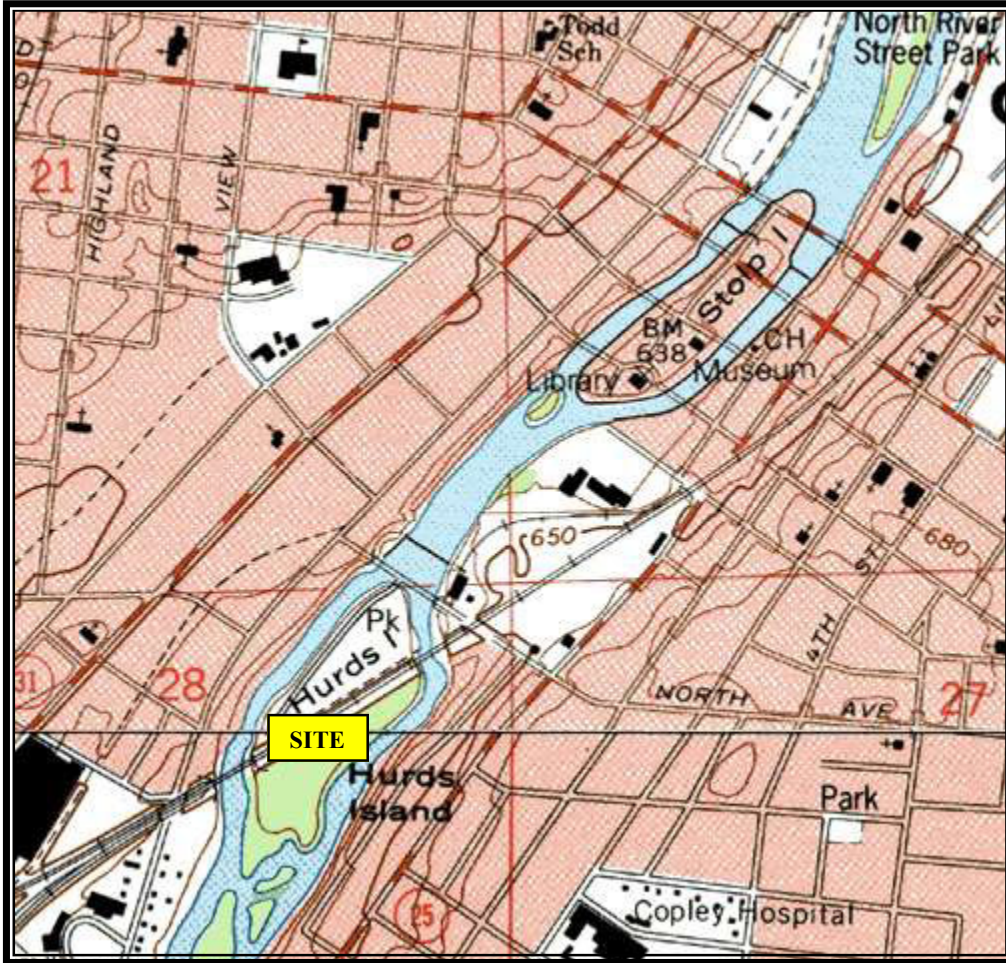
↑
Silurian



Core Run #: 4 of 4

**Photos of Rock Core #:
AU-2102**









**Site Location Map of
Rock Core #:
AU-2102**



Attachment A

General Stratigraphic Column

LEGEND

 = 1 foot	 = Possible bentonite	 = Soft shale parting
	 = Corrosion surface	
	 Dominantly pinkish to reddish gray Dolostone	 Dark gray Dolomitic shale inter-laminated with light gray Dolostone
	 Light gray Dolostone	 Light greenish gray Dolostone

Elevation above Mean Sea Level (feet)

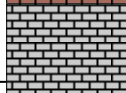
617



Silurian, Alexandrian Series, Kankakee Formation, Troutman Member

Pinkish gray, reddish to orange brown, fine to medium grained, pure, slightly to very vesicular DOLOSTONE

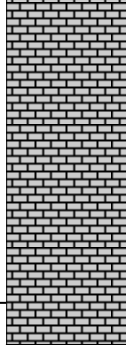
607



Silurian, Alexandrian Series, Kankakee Formation, Drummond Member

Gray to pinkish gray, pure, micritic to fine grained, very vesicular DOLOSTONE

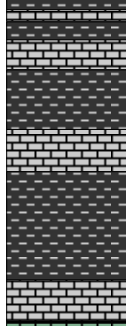
597



Silurian, Alexandrian Series, Elwood Formation

Very light gray, pure, fine grained, trace vesicular with trace sand DOLOSTONE

587



Silurian, Alexandrian Series, Wilhelmi Formation

Very light gray pure, micritic DOLOSTONE, interlaminated with dark gray Dolomitic SHALE

Ordovician, Maquoketa Group, Brainard Formation, basal dolostone facies

Very light greenish gray pure fine to medium grained DOLOSTONE, with laminations of green SHALE

Attachment B

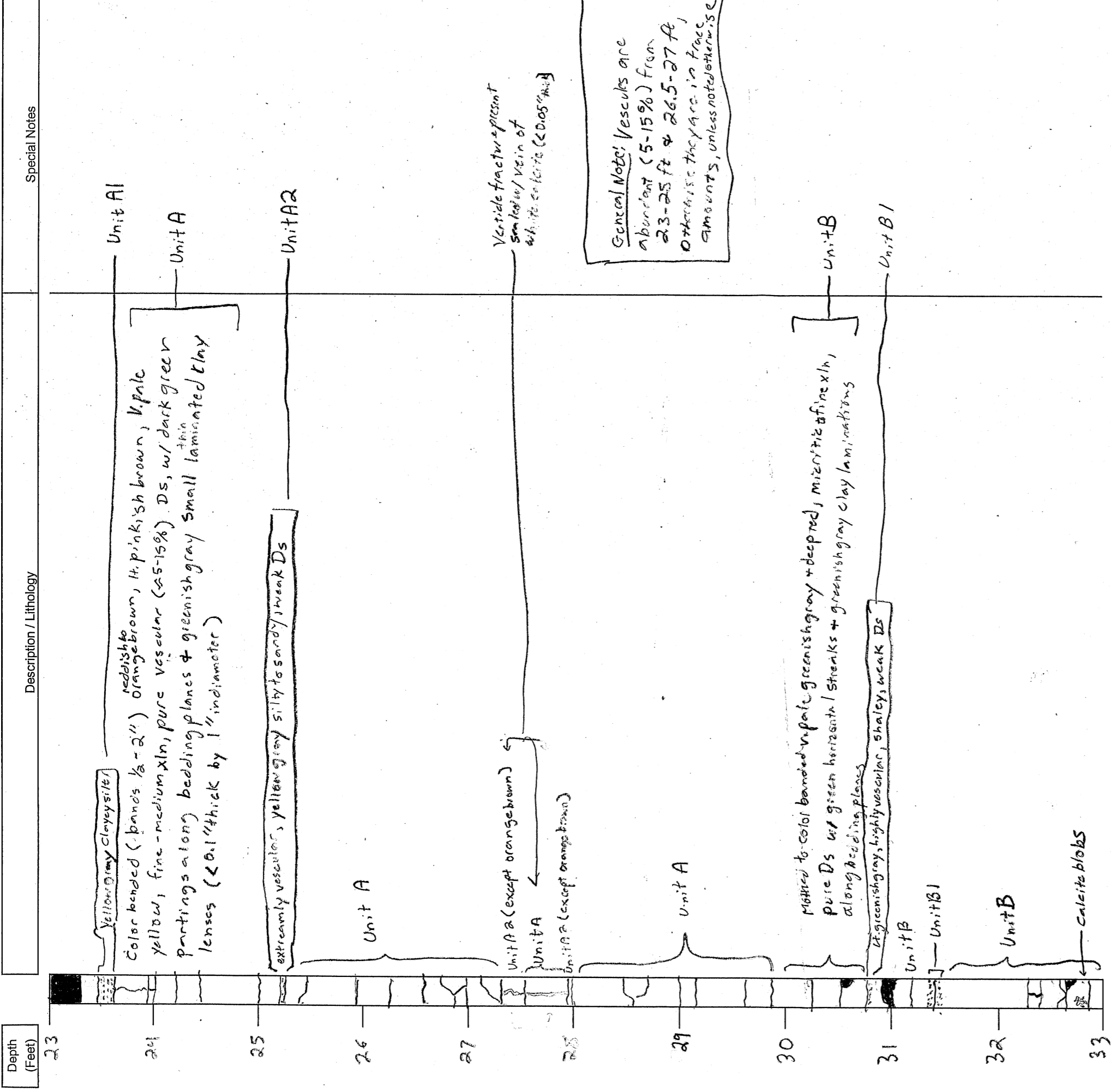
Original Rock Core Logs

Coring Log

Location: Hurd's Island / Aurora FL (NICOR)
 Logged By: Steven Baumann (5/14/06)

Date: 6/19/04
 Page 1 of 4

Boring #: SB-105
 Run Length: 10 ft



Engineering Notes	
Recovery:	<u>3/4</u>
RQD:	<u>3/4</u>
Core Diameter:	<u>3/4</u>

Legend	Symbol	Description
<input type="checkbox"/>		Dolostone
<input type="checkbox"/>		No Recovery
<input type="checkbox"/>		Clay/Shale
<input type="checkbox"/>		Highly Vesicular
<input type="checkbox"/>		Fractures + bedding planes
<input type="checkbox"/>		Calcite blocks

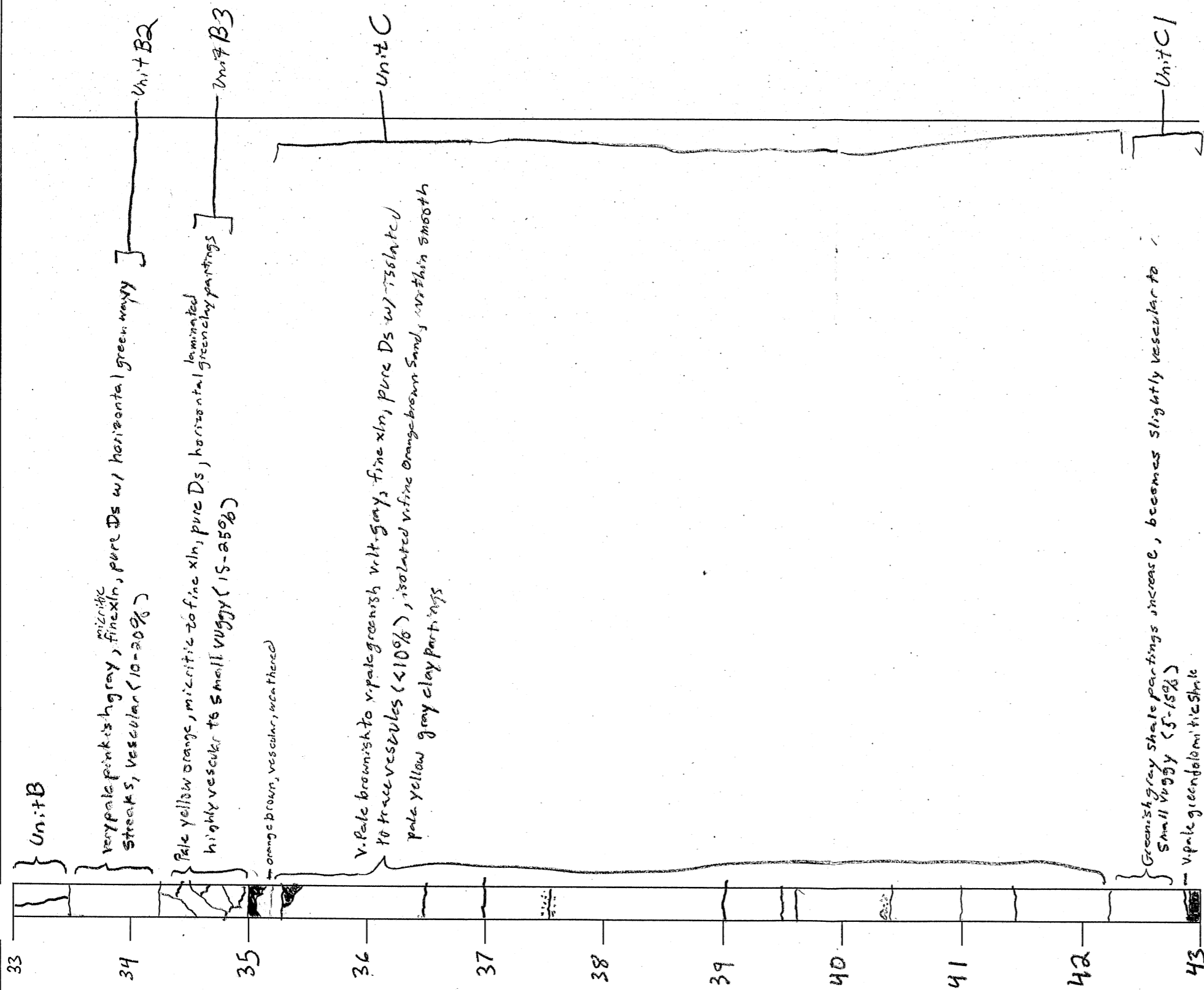
Coring Log

Location: Hurd's Island / Aurora, IL (NICOR)
 Logged By: Steven Baumann (5/14/06)

Date: 6/9/04
 Page 2 of 4

Boring #: SB-105
 Run Length: 10 ft

Depth (Feet)	Description / Lithology	Special Notes
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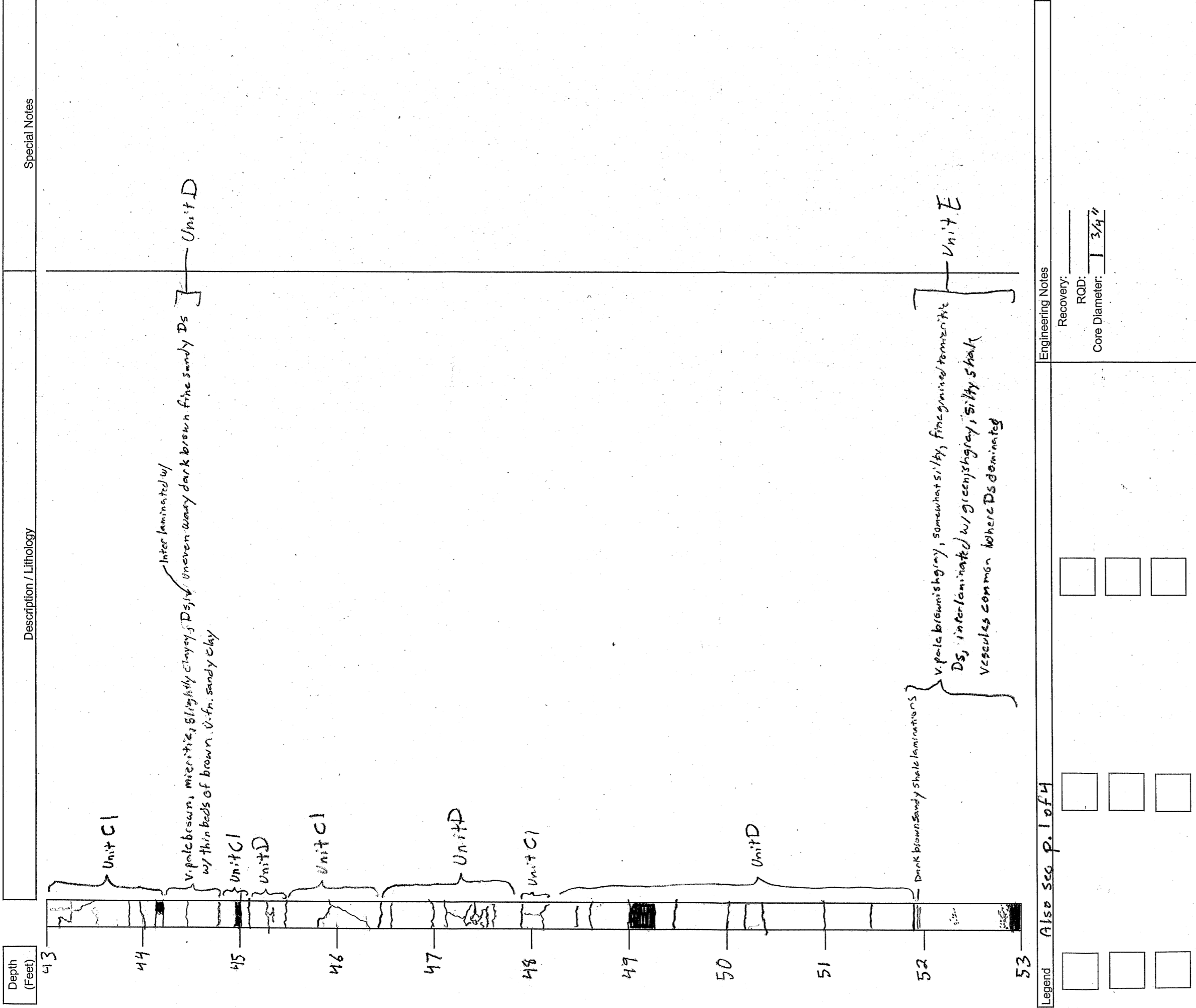
Legend	<input type="checkbox"/> = <input type="checkbox"/> <input type="checkbox"/>	Engineering Notes Recovery: _____ RQD: _____ Core Diameter: <u>1 3/4"</u>
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Coring Log

Location: Hudds Island / Aurora, IL (Nizar)
 Logged By: Steven Bauman (5/14/06)

Date: 6/9/04
 Page 3 of 4

Boring #: SB-105
 Run Length: 10ft



Legend Also see p. 1 of 4

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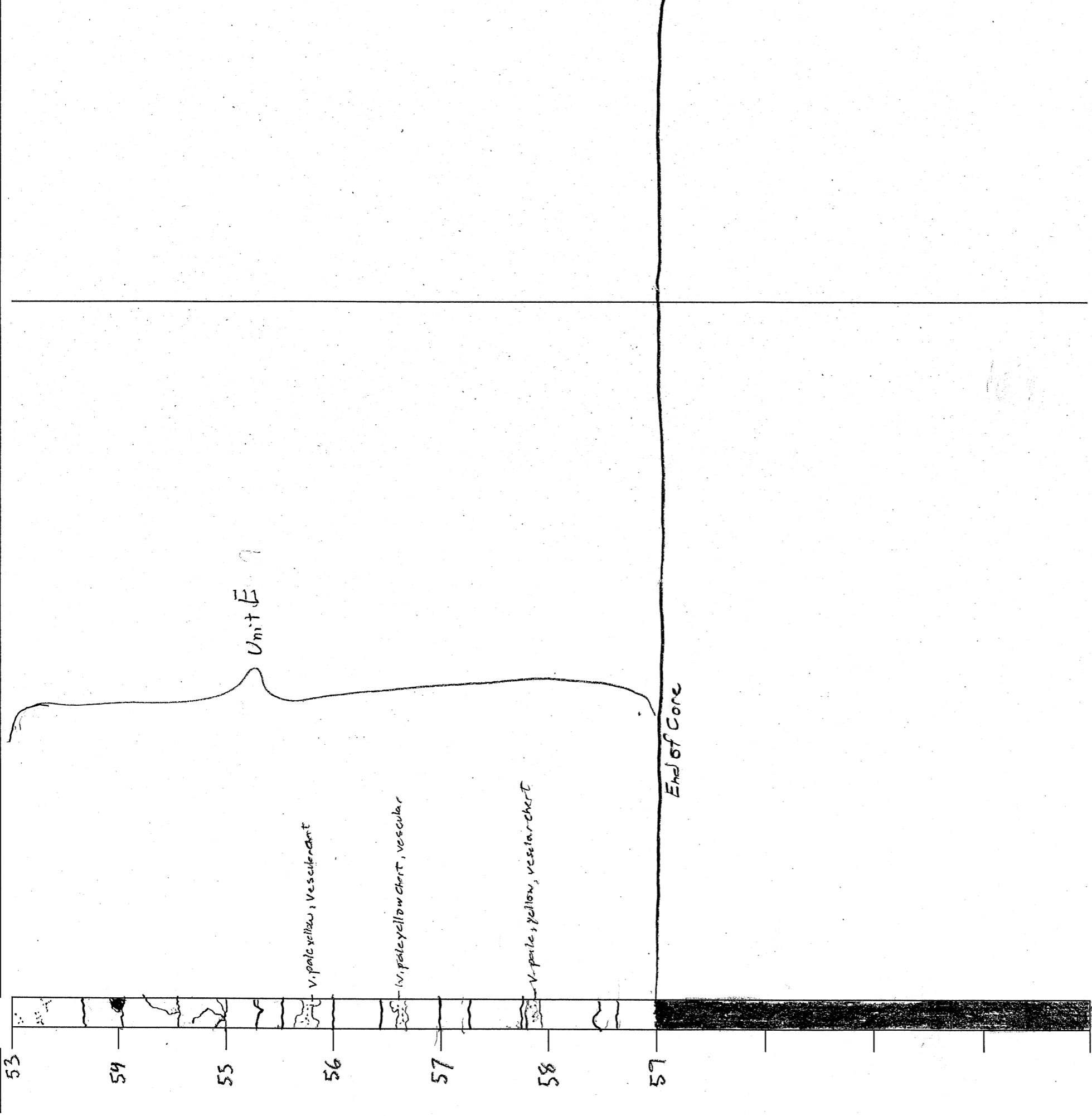
Engineering Notes

Recovery: _____
 RQD: _____
 Core Diameter: 1 3/4"

Coring Log

Location: Hurd's Island / Aurora IL (NICOR) Date: 6/9/84 Boring #: SB-105
 Logged By: Steven Bauman (5/14/86) Page 4 of 4 Run Length: 6 ft

Depth (Feet)	Description / Lithology	Special Notes
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Legend	See also p. 1 of 4	Engineering Notes
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RQD: _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Core Diameter: <u>1 3/4"</u>