USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 45.94' N

LONGITUDE: 118° 46.79' W

STATION NO.: 1

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/25/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
1G1	980 m	92 cm		

REMARKS:

MGG

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 1G1

SECTION #s: 1

DATE COLLECTED: 8/25/81

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☒
  - describe btm. cut in plastic cap not sealed-wax pulled away

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-92 sec 1

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
20	S	0	2	1					
40	S	0	2.2	1.2					
60	S	0	6.5	2.2					
70	S	0	4.2	2.2					

Remarks:

* core badly disturbed 80-92 cm

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 1G1

STATION NO: 1

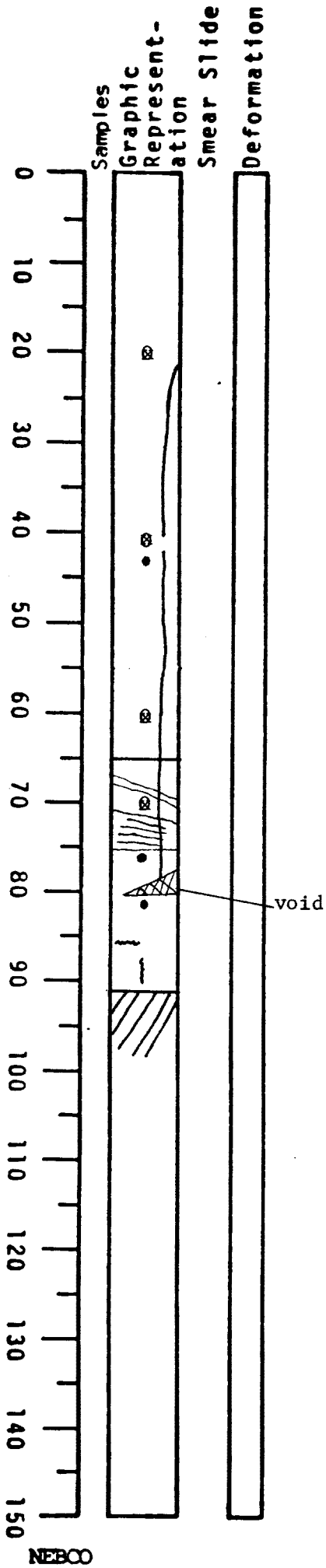
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	20	Crane Edwards	USGS	Atterbergs Wc,Suv	1/5/82 9/9/81
1	40	Edwards	USGS	Wc,Suv	9/9/81
1	60	Crane Edwards	USGS	Atterbergs Wc,Suv	1/5/82 9/9/81
1	70	Edwards	USGS	Wc,Suv	9/9/81

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			1	G	1		1

STATION#				OBSERVER
			1	BDE



x vane shear
O Water content

0-10: 10YR 2/2 Dusky yellowish brown
high water content
with core vertical, had free standing water at top

10-65: 5Y 3/2 Olive gray
uniform silt
plant fragment at 43cm
drag mark from splitting 22-80cm
abrupt contact at 65cm

65-92: matrix of 10YR 2/2 dusky yellowish brown silt with organic-rich X-beds of silt and plant fragments(black)
large plant fragments at 76 and 82cm
core broken at bottom

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 45.60' N

LONGITUDE: 118° 46.58' W

STATION NO.: 1

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/25/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
1G2	980 m	126 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 1G2

SECTION #s: 1

DATE COLLECTED: 8/25/81

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-128 cm sec 1

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
* 20		—	—						
40	S	0	1.7	0.8					X
60	S	0	3.0	1.0					X
80	S	0	9.1	3.6					X
100	S	0	16.0	5.9					X
120	S	0	20.0	6.0					X

Remarks:

* 20 cm not analysed-too disturbed

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 1G2

STATION NO: 1

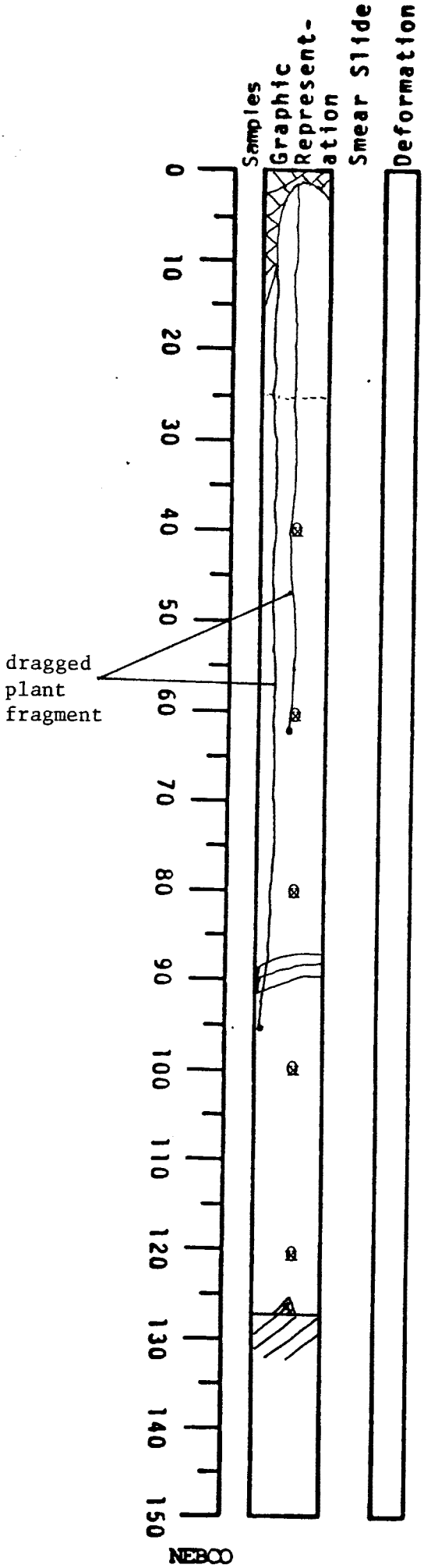
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	40	Edwards	USGS	Wc,Suv	9/9/81
1	60	Edwards Crane	USGS	Wc,Suv Atterbergs	9/9/81 5/82
1	80	Edwards	USGS	Wc,Suv	9/9/81
1	100	Edwards	USGS	Wc,Suv	9/9/81
1	120	Edwards Crane	USGS	Wc,Suv Atterbergs	9/9/81 5/82

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
V	1	-	8	1	-	S	C			1	G	2	1

STATION#				OBSERVER
			1	BDE



0-25: 5YR 3/2 Grayish brown silty-clay badly disturbed above 20cm contact indistinct

25-86: 5YR 2/2 Dusky brown to 10YR 2/2 dusky yellowish brown silty-clay becoming silt enriched at bottom of layer homogeneous with occasional plant fragments at 62 and 95cm

86-90: 5YR 3/2 Grayish-brown silty-clay layer - drag feature at edge

90-124: 10YR 3/2 Dusky yellowish brown clayey silt with occasional plant fragments

124-126: Disturbed by catcher

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 12.53' N

LONGITUDE: 120° 06.61' W

STATION NO.: 5

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/25/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
5G1	618 m	212 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 5G1

SECTION #s: 1,2

DATE COLLECTED: 8/25/81

DATE ANALYZED: 8/25/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u/S_r$

0-150cm sec 1
150-212cm sec 2

	Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta\ell$
*	20									
	40	S	0	1.3	0.6					X
	60	S	0	2.1	1.0					X
	80	S	0	3.0	1.4					X
	100	S	0	4.0	1.8					X
	120	S	0	4.6	2.0					X
	140	S	0	5.0	2.2					X
	150	U	0	3.0	1.9					X
	160	S	0	4.5	1.9					
+	180	S	0	6.0	2.2					
+	200	S	0	5.0	2.0					

Remarks:

* too soupy to vane shear
\+ gassey (w/vertical gas cracks)

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 5G1

STATION NO: 5

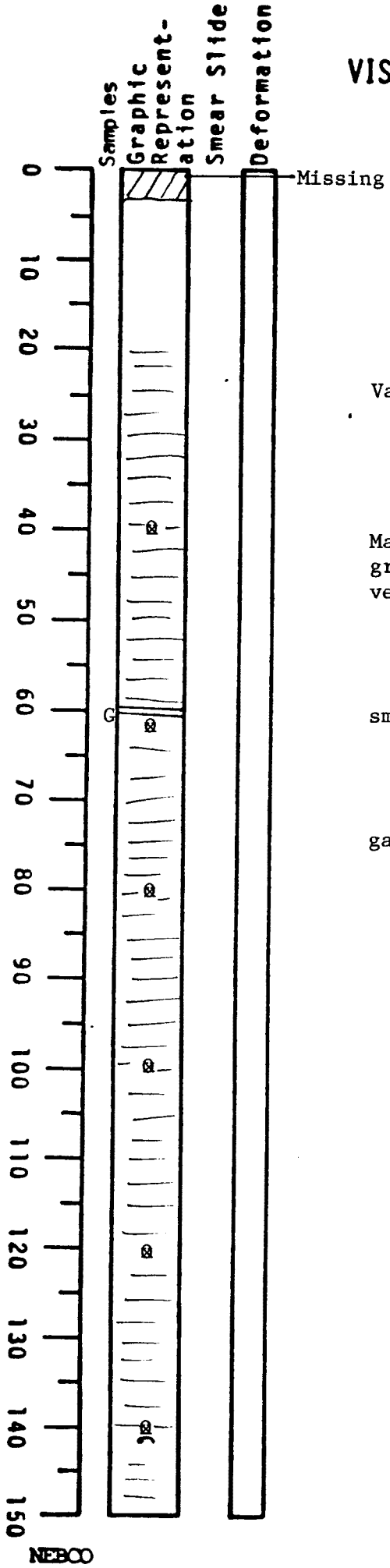
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	40	Edwards Crane	USGS	Wc,Suv Atterbergs	9/11/81 5/82
1	60	Edwards	USGS	Wc, Suv	9/11/81
1	80	Edwards	USGS	Wc,Suv	9/11/81
1	100	Edwards Crane	USGS	Wc, Suv Atterbergs	9/11/81 5/82
1	120	Edwards	USGS	Wc,Suv	9/11/81
1	140	Edwards Crane	USGS	Wc,Suv Atterbergs	9/11/81 5/82
2	150	Edwards	USGS	Wc,Suv	8/25/81
2	160	Edwards	USGS	Wc,Suv	9/18/81
2	180	Edwards	USGS	Wc,Suv	9/18/81
2	200	Edwards Crane	USGS	Wc,Suv Atterbergs	9/18/81 5/82

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			5	G	1		1

STATION#				OBSERVER
			5	BDE



Varved siltey-clay to clayey-silt

Matrix is 5Y 3/4 Olive brown
gray layer (G) at 59cm is 5Y 4/2 olive gray
very soft and disturbed in upper 20cm

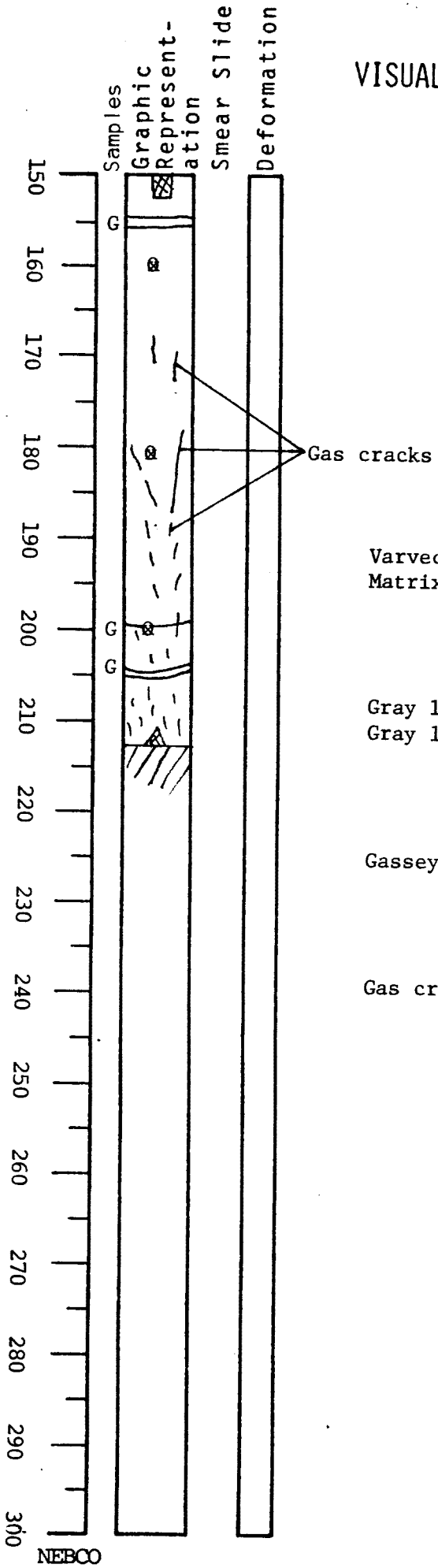
small shell fragment at 142cm

gassey H_2S smell

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			5	G	1		2

STATION#				OBSERVER
			5	BDE



Varved silty-clay to clayey-silt
Matrix is 5Y 3/4 olive brown

Gray layers (G) at 154,199 and 204cm
Gray layers are 5Y 4/2 olive gray

Gassey H_2S smell

Gas cracks below 167cm

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 15.23' N

LONGITUDE: 120° 07.06' W

STATION NO.: 6

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
6G1	590 m	201 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 6G1

SECTION #s: 1,2,3

DATE COLLECTED: 8/26/81

DATE ANALYZED: 8/26/81

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-190cm sec 2

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
20	S	0	1.2	0.4					
40	S	0	1.7	0.7					
60	U	0	3.2	0.4					X
70	S	0	3.4	1.6					
90	S	0	3.7	1.3					
110	U	0	3.3	0.4					X
120	S	0	4.6	2.0					X
140	S	0	5.1	2.1					X
160	S	0	5.8	2.5					X
180	S	0	4.5	2.0					X

Remarks:

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 6G1

STATION NO: 6

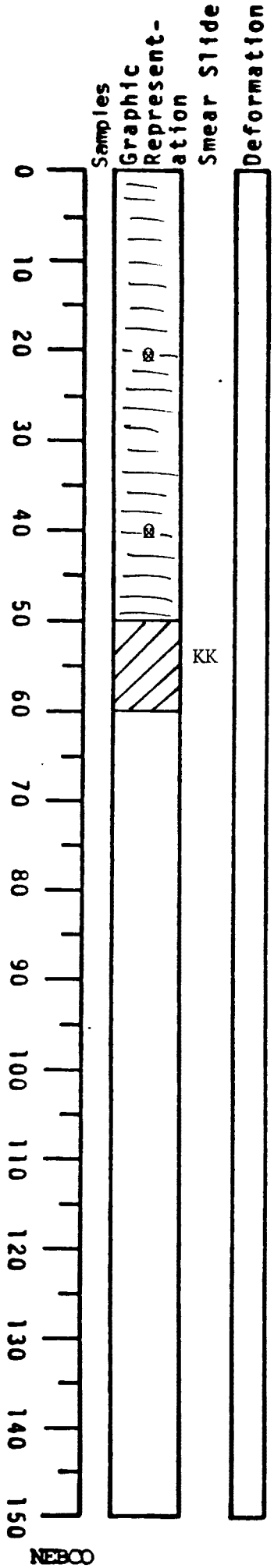
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	20	Crane	USGS	Wc,Suv Atterbergs	9/21/81 5/82
1	40	Crane	USGS	Wc,Suv	9/21/81
2	70	Crane	USGS	Wc,Suv Atterbergs	9/21/81 5/82
2	90	Crane	USGS	Wc,Suv	9/21/81
3	100-110	Kvenvolden	USGS	Geochemistry	
3	110-112	Edwards	USGS	Wc,Suv	
3	120	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 5/82
3	140	Edwards	USGS	Wc,Suv	9/10/81
3	160	Edwards	USGS	Wc,Suv	9/10/81
3	180	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 5/82

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			6	G	1		1

STATION#				OBSERVER
			6	RPC



Core is varved throughout at 1.5-0.8cm

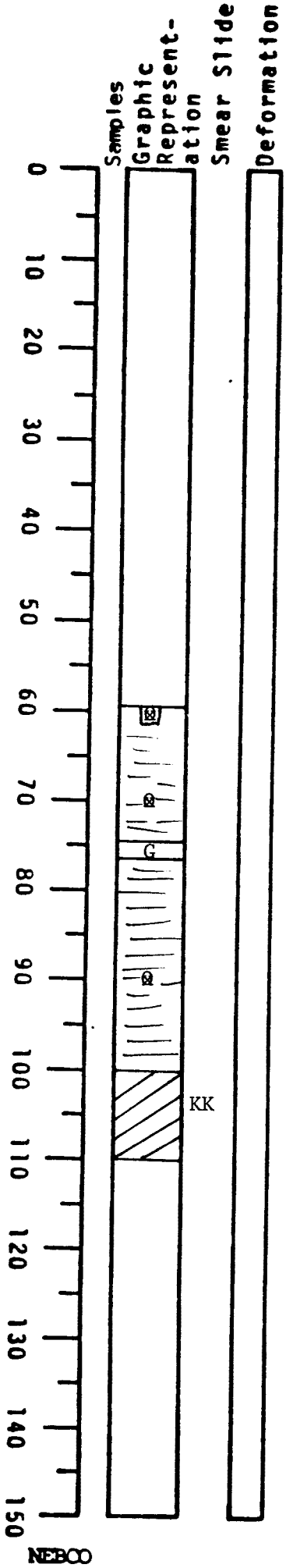
Matrix is a silty-clay 5Y 3/4 olive brown
dark layering is 10YR 2/2 Dusky yellowish brown

faint H_2S smell 30-50cm

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			6	G	1		2

STATION#				OBSERVER
			6	RPC



Varved throughout with one distinct gray layer (G) 5Y 4/1

60-100cm matrix is silty clay 5Y 3/4 olive brown

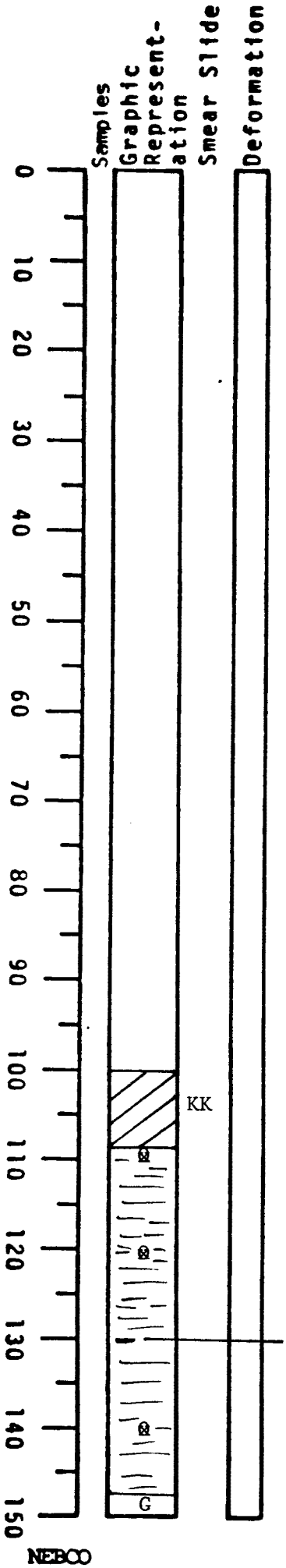
Dark layering 1.0-0.2cm is 5Y 2/1 Olive black

H_2S smell is not noticeable

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			6	G	1		3

STATION#				OBSERVER
			6	BDE



Matrix is silty clay to clayey silt
5Y 3/4 Olive brown

Varved throughout 0.2-1.0cm intervals

Occasional gray layers (G) are 5Y 4/2
Olive gray

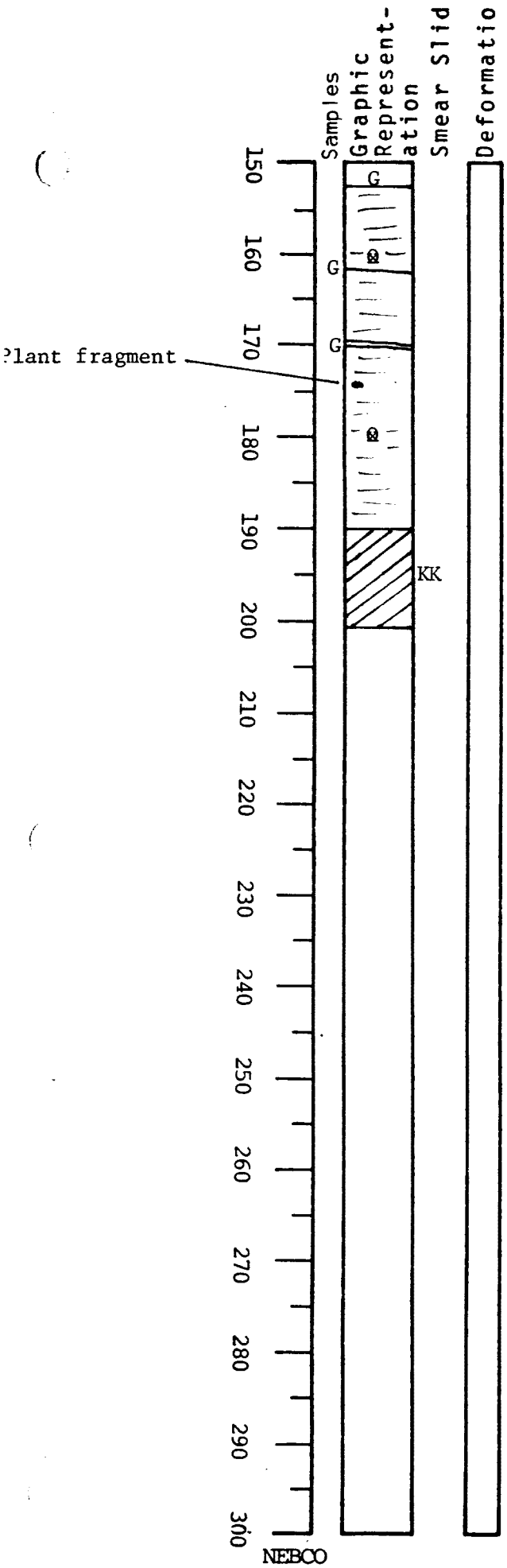
plant fragment

H_2S smell throughout

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			6	G	1		3

STATION#				OBSERVER
			6	BDE



Matrix is silty clay to
clayey silt 5Y 3/4 Olive brown

Varved throughout 0.2-1.0cm intervals
Occalional gray layers (G) are 5Y 4/2 olive gray

H_2S smell throughout

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 18.18' N

LONGITUDE: 120° 05.48' W

STATION NO.: 7

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
7G1	540 m	211 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 7G1

SECTION #s: 1,2,3

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-150cm sec 1
150-172cm sec 2
172-182cm-KK
182-211cm sec 3

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
20	S	0	0.4	0.1					
40	S	0	1.6	0.4					
* 62	S	0	4.0	1.4					
80	S	0	4.0	1.4					
100	S	0	6.0	2.4					
120	S	0	6.0	2.0					
140	S	0	6.7	3.0					
160	S	0	4.0	1.5					
187	S	0	6.7	2.5					
204	S	0	6.0	2.3					

Remarks:

* mud zone

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 7G1

STATION NO: 7

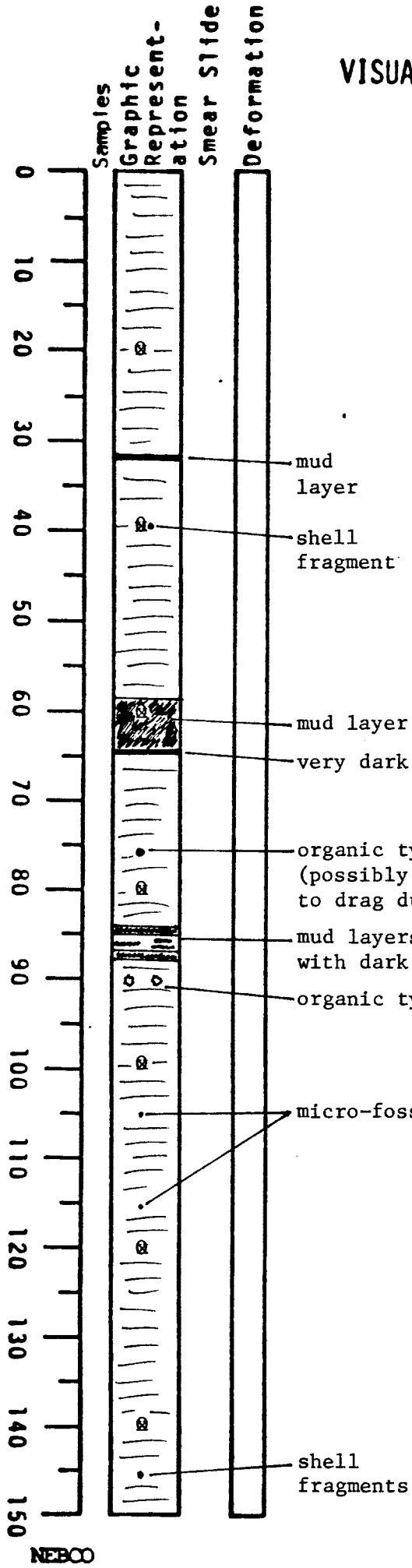
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	20	Crane	USGS	Wc,Suv Atterbergs	9/22/81 5/82
1	40	Crane	USGS	Wc,Suv	9/22/81
1	62	Crane	USGS	Wc,Suv	9/22/81
1	80	Crane	USGS	Wc,Suv Atterbergs	9/22/81 5/82
1	100	Crane	USGS	Wc,Suv	9/22/81
1	120	Crane	USGS	Wc,Suv	9/22/81
1	140	Crane	USGS	Wc,Suv Atterbergs	9/22/81 5/82
2	160	Crane	USGS	Wc,Suv	9/22/81
3	187	Crane	USGS	Wc,Suv	9/22/81
3	204	Crane	USGS	Wc,Suv Atterbergs	9/22/81 5/82

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
V	1	-	8	1	-	S	C			7	G	1	1

STATION#				OBSERVER
			7	RPC



Core is fairly evenly varved from 89-150cm
Matrix is clayey silt 5Y 4/2 Olive gray

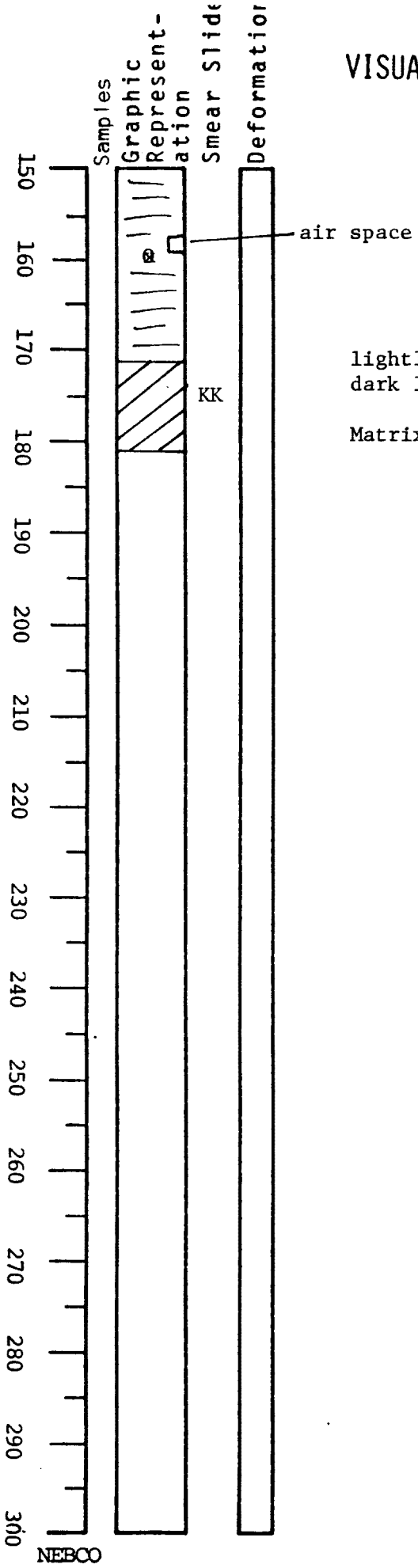
Brown mud layers 84-89cm and 59-66cm are 10YR 2/2 Dusky yellowish brown

Drag mark 57-76cm from slicing core

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			7	G	1		2

STATION#				OBSERVER
			7	RPC



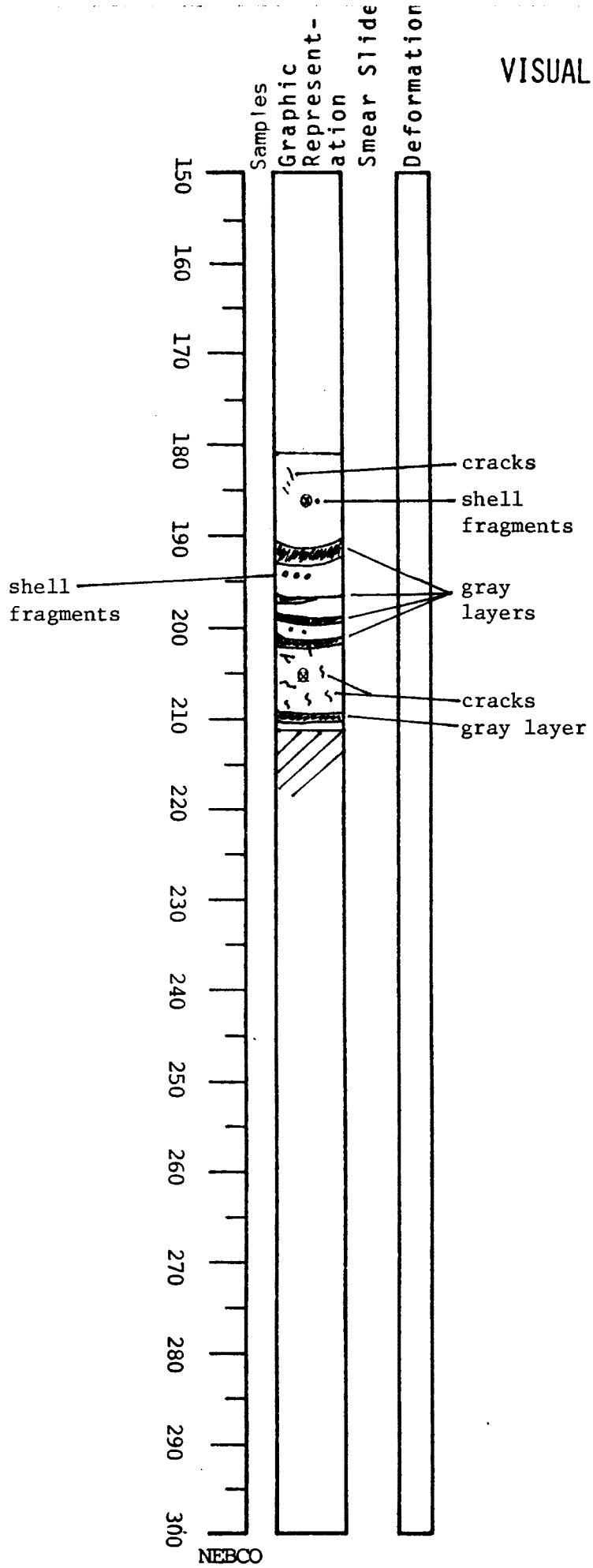
lightly varved throughout
dark lines are 0.3-0.1cm in width

Matrix is a clayey silt 5Y 3/4 Olive brown

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
V	1	-	8	1	-	S	C			7	G	1	3

STATION#				OBSERVER
			7	RPC



182-192cm contains shell fragments or micro-fossils

Varved from 182-200cm faint varves at 200-211cm

Gray layers range from 2-0.2cm in width and are 5Y 4/1

Matrix is clay silt to silt clay 5Y 3/4 Olive brown

Large shell fragments at 193cm

Gas cracks (?) throughout

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 18.18' N

LONGITUDE: 120° 05.54' W

STATION NO.: 7

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
7G2	564 m	248 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 7G2

SECTION #s: 1,2,3

DATE COLLECTED: 8/26/81

DATE ANALYZED: 8/26/81

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-238cm sec 3

	Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta\ell$
*	20	S	0	0.8	0.2					
	40	S	0	2.0	1.7					
	50	U	0	2.4	0.3					
	78	S	0	3.5	1.6					
	95	S	0	4.5	2.0					
	120	S	0	5.0	2.0					X
	140	S	0	6.0	2.5					X
	160	S	0	6.5	2.7					X
+	180	S	0	6.5	2.5					X
+	200	S	0	8.0	3.0					X
o	220	S	0	7.5	2.9					

Remarks:

+ gray layered
o gas cracks
* disturbed

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 7G2

STATION NO: 7

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	20	Edwards Crane	USGS	Wc,Suv Atterbergs	9/17/81 5/82
1	40	Edwards	USGS	Wc,Suv	9/17/81
2	61	Edwards	USGS	Wc,Suv	9/17/81
2	78	Edwards Crane	USGS	Wc,Suv Atterbergs	9/17/81 5/82
2	95	Edwards	USGS	Wc,Suv	9/17/81
3	120	Edwards	USGS	Wc,Suv	9/10/81
3	140	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 5/82
3	160	Edwards	USGS	Wc,Suv	9/10/81
3	180	Edwards	USGS	Wc,Suv	9/10/81
3	200	Edwards	USGS	Wc,Suv	9/10/81
3	220	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 5/82

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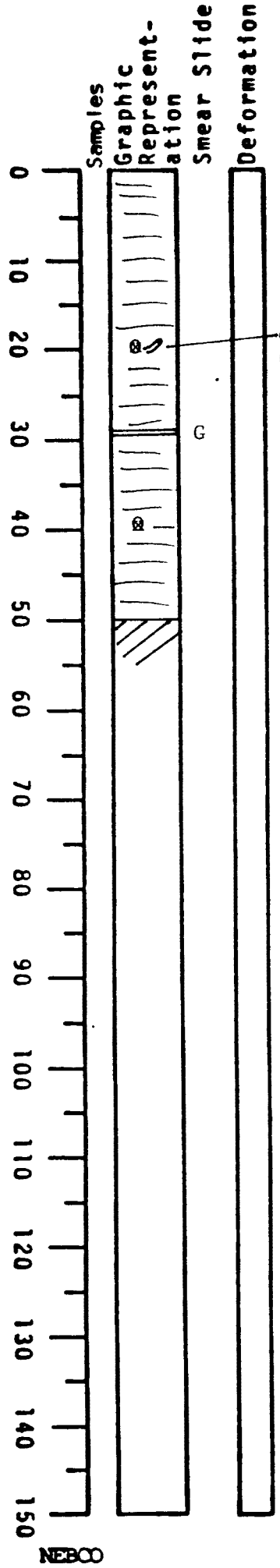
VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
V	1	-	8	1	-	S	C			7	G	2	1

STATION#				OBSERVER
			7	BDE



open burrow
0.25cm diameter

Varved silty-clay to clayey silt

Matrix is 5Y 3/4 Olive brown

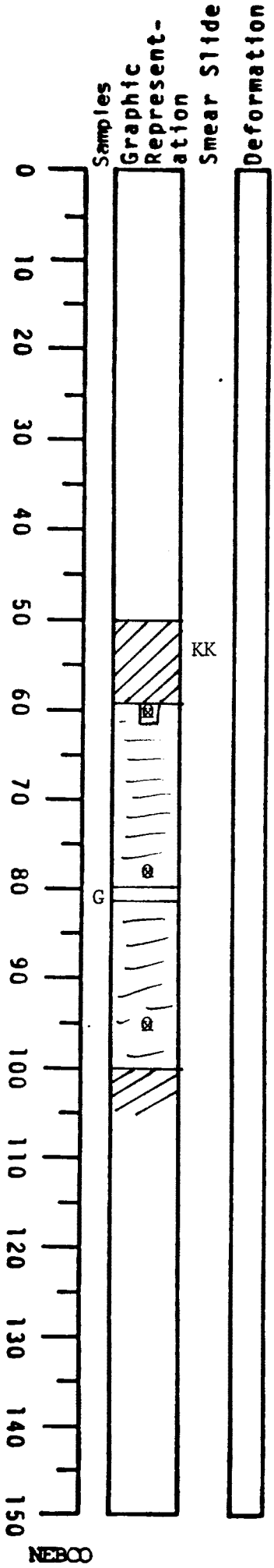
Very soft and disturbed in upper 25cm

0.5cm thick gray layer at 29cm

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			7	G	2		2

STATION#				OBSERVER
			7	BDE



Varved silty-clay to clayey silt

Matrix is 5Y 3/4 Olive brown

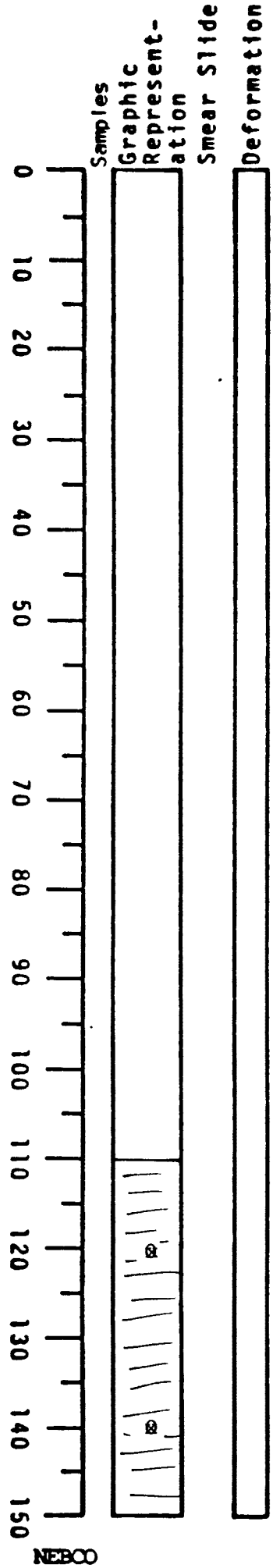
Gray layer at 80-83cm is 5Y 4/2 Olive gray

No H_2S smell

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
V	1	-	8	1	-	S	C			7	G	2	3

STATION#				OBSERVER
			7	BDE

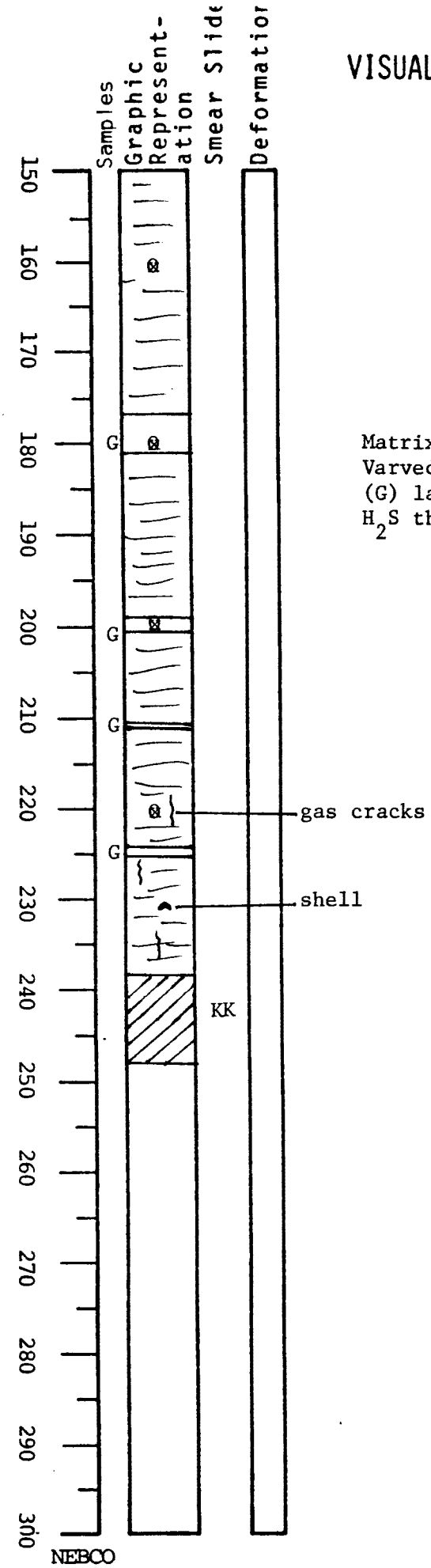


Matrix is 5Y 3/4 Olive brown
Varved sediment throughout
with occasional gray layers
H_2S throughout

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			7	G	2		3

STATION#				OBSERVER
			7	BDE



Matrix is 5Y 3/4 Olive brown
Varved throughout with occasional gray (G) layers which are 5Y 4/2 Olive gray
H_2S throughout

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 21.20' N

LONGITUDE: 120° 06.00' W

STATION NO.: 8

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
8G1	543 m	185 cm		

REMARKS:

NEBOO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 8G1

SECTION #s: 1,2

DATE COLLECTED: 8/26/81

DATE ANALYZED: 8/26/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-150cm sec 1
150-185cm sec 2

	Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
	20	S	0	0.7	0.2					
	40	S	0	3.3	1.0					
	60	S	0	4.3	2.0					
X	80	S	0	6.8	2.4					
	100	S	0	7.4	2.7					
	120	S	0	9.0	3.9					
	140	S	0	8.1	3.9					
	150	U	0	8.3	3.4					X
	160	S	0	7.8	3.4					
	180	S	0	8.5	3.5					

Remarks:

X crack appeared during vane shearing

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 8G1

STATION NO: 8

* Archive core

	SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
	1	20	Crane	USGS	Wc,Suv	9/21/81
	1	40	Crane	USGS	Wc,Suv Atterbergs	9/21/81 1/5/82
	1	60	Crane	USGS	Wc,Suv	9/21/81
	1	69	D.S.Blunt	USGS	age date shell	1/12/82
	1	80	Crane	USGS	Wc,Suv Atterbergs	9/21/81 1/5/82
	1	100	Crane	USGS	Wc,Suv	9/21/81
	1	120	Crane	USGS	Wc,Suv Atterbergs	9/21/81 1/5/82
	1	140	Crane	USGS	Wc,Suv	9/21/81
	2	160	Crane	USGS	Wc,Suv	9/21/81
	2	180	Crane	USGS	Wc,Suv Atterbergs	9/21/81 1/5/82
*	1	97	D.S. Blunt	USGS	age date shell	1/12/82
*	1	128	D.S. Blunt	USGS	age date shell	1/12/82
*	1	144	D.S. Blunt	USGS	age date shell	1/12/82

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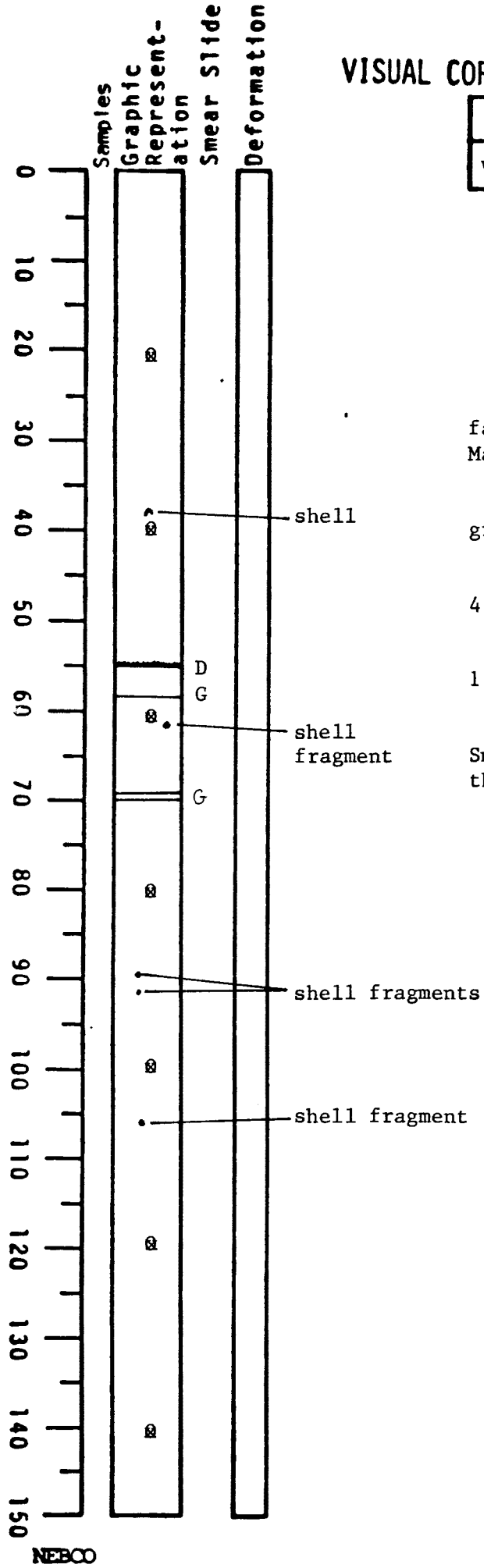
VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
V	1	-	8	1	-	S	C			8	G	1	1

STATION#				OBSERVER
			8	RPC



fairly consistent throughout
Matrix is 5Y 4/1 Olive brown

gray streaks (G) are 5Y 4/1

4 shell fragment locations

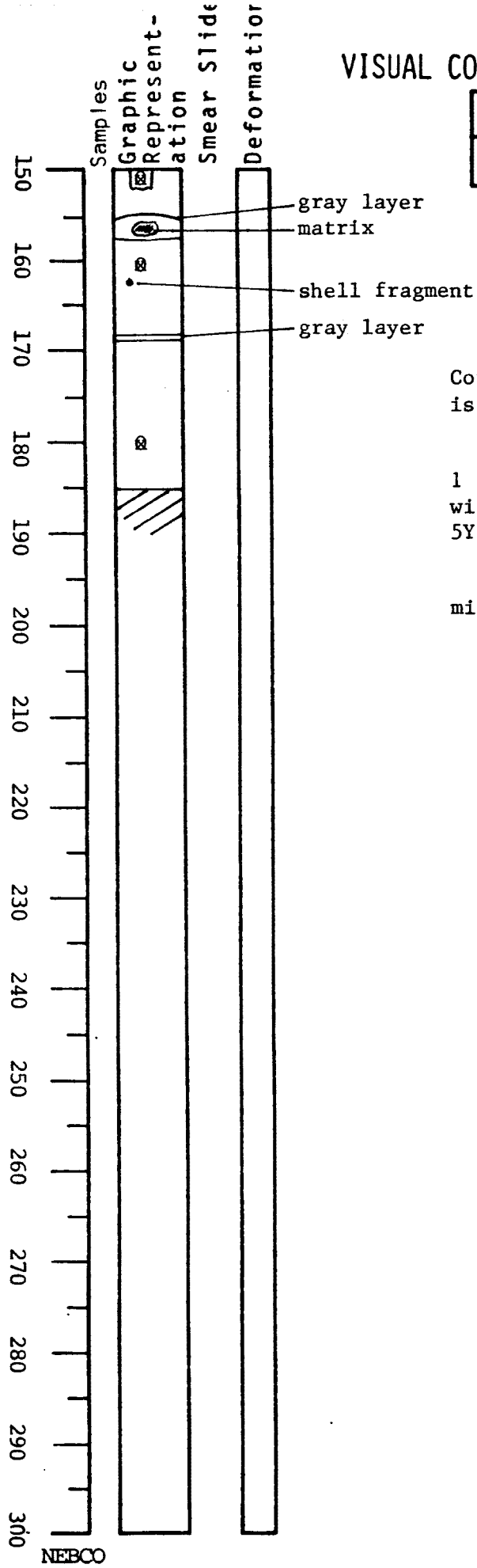
1 dark streak (D)

Small white organisms(?)
through lower part of core 84-150cm

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
V	1	-	8	1	-	S	C			8	G	1	2

STATION#				OBSERVER
			8	RPC



Core is very consistant, the matrix is a clayey silt to a silty clay 5Y 3/2

1 thin gray layer and 1 thick gray layer with a plug of matrix in the center 5Y 4/1

micro-fossils occur 157-164cm

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 20.80' N

LONGITUDE: 120° 06.36' W

STATION NO.: 8

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
8G2	545 m	148		

REMARKS:

Geotech core

NEBOO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 8G2

SECTION #s: 2,3

DATE COLLECTED: 8/26/81

DATE ANALYZED: 8/26/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-148cm sec 3

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
60	U	0	5.2	1.8					
110	U	0	7.6	3.5					

Remarks:

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 21.58' N

LONGITUDE: 120° 06.13' W

STATION NO.: 9

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
9G1	477 m	171 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 9G1

SECTION #s: 1,2

DATE COLLECTED: 8/26/81

DATE ANALYZED: 8/26/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-150cm sec 1
150-171cm sec 2

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta\ell$
20	S	0	1.0	0.5					X
40	S	0	2.6	1.4					X
60	S	0	4.5	2.0					X
80	S	0	8.1	3.1					X
100	S	0	9.5	3.7					X
120	S	0	12.3	5.0					X
140	S	0	8.8	3.8					X
150	U	0	12.0	3.1					X
160	S	0	13.7	6.0					

Remarks:

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 9G1

STATION NO: 9

* Archive core

	SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
	1	20	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
	1	40	Edwards	USGS	Wc,Suv	9/10/81
	1	60	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
	1	80	Edwards	USGS	Wc,Suv	9/10/81
	1	100	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
	1	120	Edwards	USGS	Wc,Suv	9/10/81
	1	140	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
*	1	67	D.S. Blunt	USGS	age date shell	1/12/82

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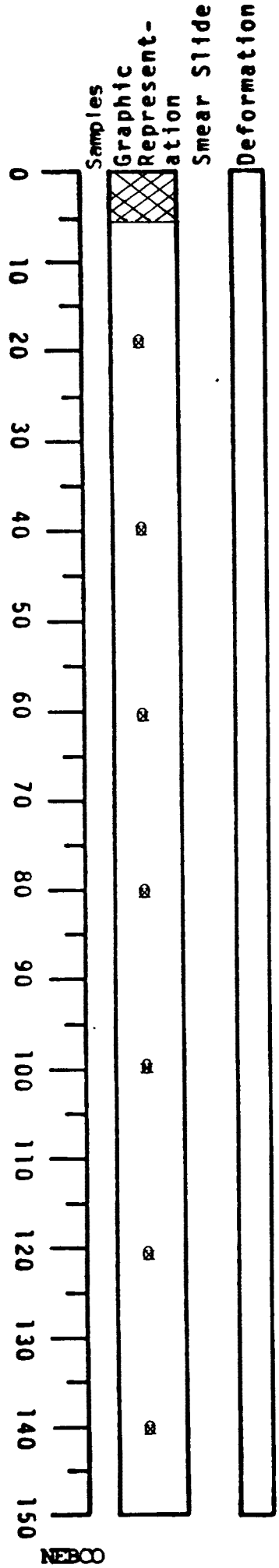
VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
V	1	-	8	1	-	S	C			9	G	1	1

STATION#				OBSERVER
			9	BDE

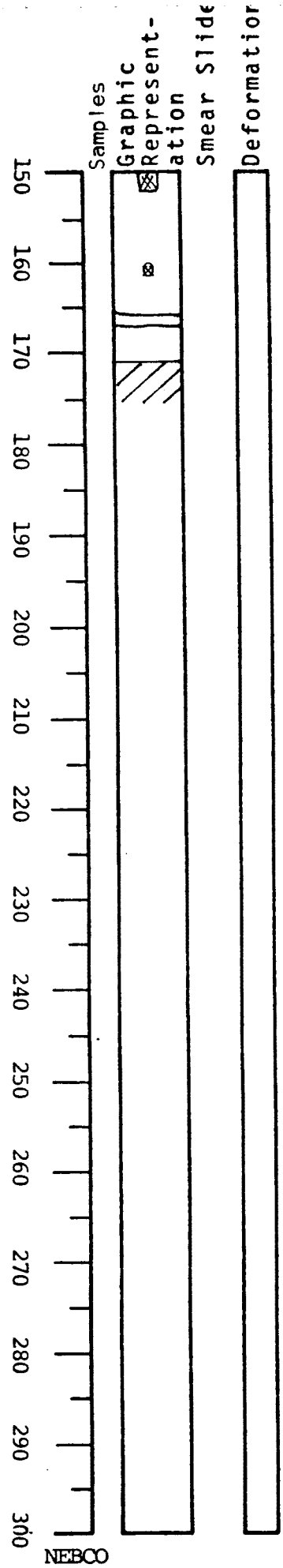


0-5: void
5-150: 5Y 4/2 Olive brown
uniform clayey silt
very soft and disturbed at 5-25cm

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C			9	G	1		2

STATION#				OBSERVER
			9	BDE



uniform clayey silt 5Y 3/4 Olive brown
lighter layer at 166cm 104 4/2 Grayish olive

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 21.55' N

LONGITUDE: 120° 06.20' W

STATION NO.: 9

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/26/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
9G2	477 m	149		

REMARKS:

Geotech core

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 9G2

SECTION #s: 2,3

DATE COLLECTED: 8/26/81

DATE ANALYZED: 8/26/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-149cm sec 3

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
60	U	0	4.0	1.3					
110	U	0	6.4	2.0					

Remarks:

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.01' N

LONGITUDE: 120° 06.55' W

STATION NO.: 10

LINE NO.:

DAY/MONTH/YEAR

DATE: 26/08/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
10G1	465 m	174 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 10G1

SECTION #s: 1,2

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-150cm sec 1
150-174cm sec 2

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta\ell$
20	S	0	1.4	0.5					X
40	S	0	4.8	2.0					X
60	S	0	5.0	2.0					X
80	S	0	5.9	2.0					X
100	S	0	9.5	4.0					X
120	S	0	12.6	5.0					X
140	S	0	11.0	4.8					
155									X

Remarks:

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 10G1

STATION NO: 10

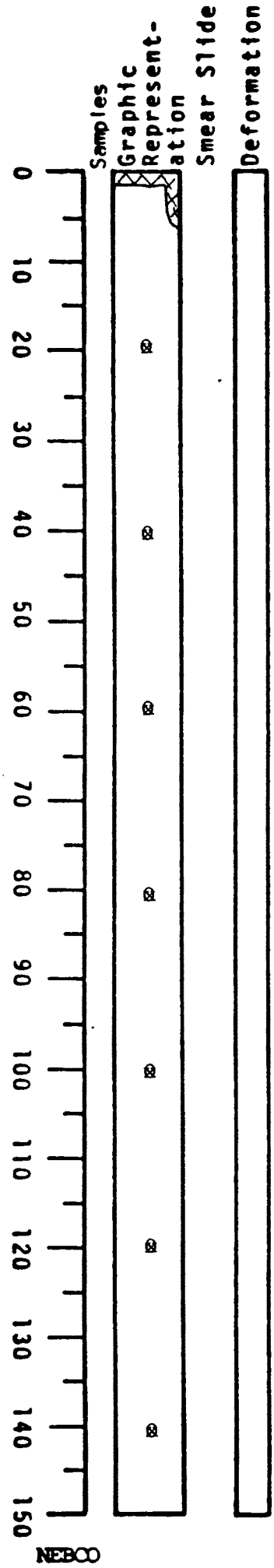
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	20	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
1	40	Edwards	USGS	Wc,Suv	9/10/81
1	60	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
1	80	Edwards	USGS	Wc,Suv	9/10/81
1	100	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
1	120	Edwards	USGS	Wc,Suv	9/10/81
1	140	Edwards Crane	USGS	Wc,Suv Atterbergs	9/10/81 1/5/82
2	150	Edwards	USGS	Wc,Suv	9/10/81

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C		1	0	G	1		1

STATION#				OBSERVER
		1	0	BDE

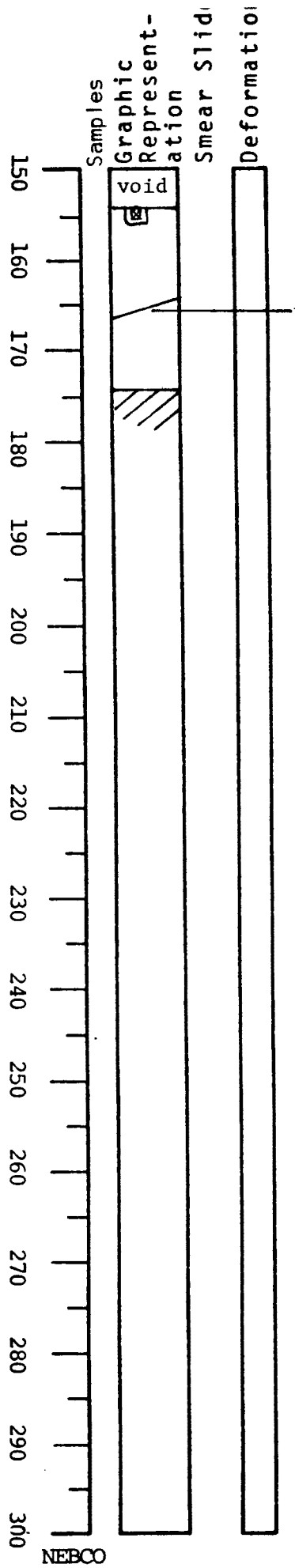


0-150: uniform silty clay to clayey silt
disturbed in upper 20cm
5Y 3/4 Olive brown

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
V	1	-	8	1	-	S	C		1	0	G	1		2

STATION#				OBSERVER
		1	0	BDE



major break
(probably at time of
pulling out cutter)

Uniform clayey-silt 5Y 3/4 Olive brown

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 21.88' N

LONGITUDE: 120° 06.37' W

STATION NO.: 10

LINE NO.:

DAY/MONTH/YEAR

DATE: 26/08/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
10G2	477 m	177		

REMARKS:

Geotech core

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 10G2

SECTION #s: 1,2,3

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-177cm sec 3

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
60	U	0	3.0	1.0					
* 110	U	0	13.3	3.0					

Remarks:

* ran out of chart paper after Su-remolded 720° befor Sr
note: core sections split by breaking - not using wire

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.25' N

LONGITUDE: 120° 05.99' W

STATION NO.: 11

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
11G1	425 m	157 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 11G1

SECTION #s: 1,2

DATE COLLECTED: 8/27/81

DATE ANALYZED: 8/27/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

0-110cm sec 1
110-157cm sec 1

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
20	S	0	7.0	2.4					
40	S	0	6.7	2.0					
60	S	0	20.0	8.3					
80	S	0	16.1	6.0					
100	S	0	15.0	5.7					
120	S	0	14.0	5.2					
140	S	0	15.2	5.4					

Remarks:

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 11G1

STATION NO: 11

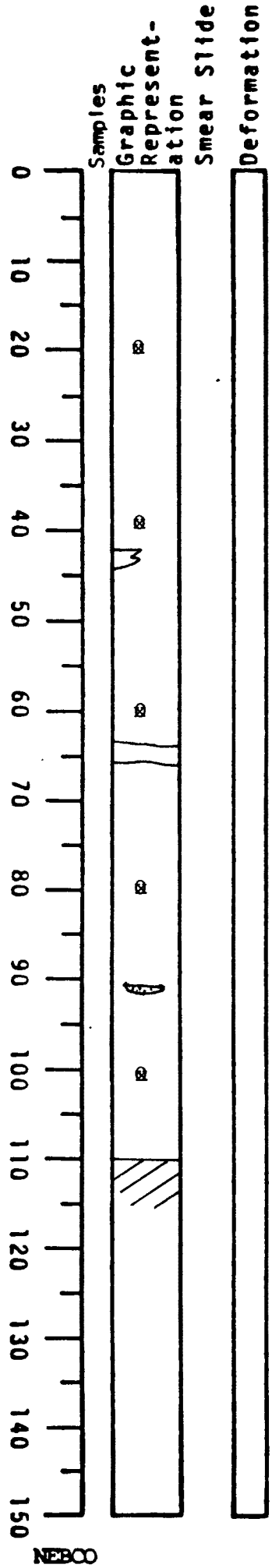
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	20	Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
1	40	Crane	USGS	Wc,Suv	9/23/81
1	60	Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
1	80	Crane	USGS	Wc,Suv	9/23/81
1	100	Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
2	122	Crane	USGS	Wc,Suv	9/23/81
2	140	Crane	USGS	Wc,Suv	9/23/81

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
V	1	-	8	1	-	S	C		1	1	G	1	1

STATION#				OBSERVER
		1	1	BDE



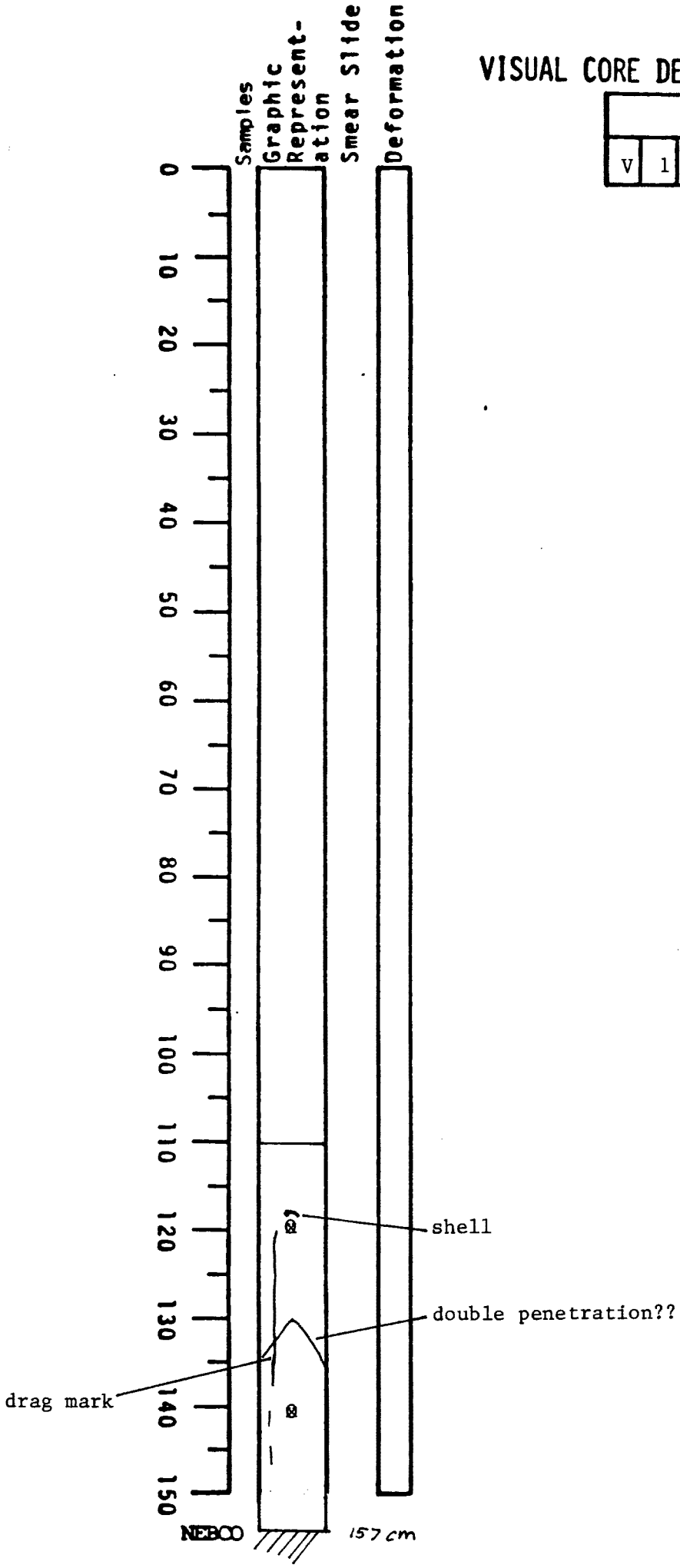
disturbed in upper 30cm
uniform clayey silt 5Y 3/4 Olive brown
grayish lens at 44 and 66cm 104 4/2
Grayish olive
very few microfossils visible

coarse lens

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C		1	1	G	1		2

STATION#				OBSERVER
		1	1	BDE



Uniform clayey silt to silty clay
5Y 3/4 Olive brown

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.03' N

LONGITUDE: 120° 06.48' W

STATION NO.: 11

LINE NO.:

DATE (DAY/MONTH/YEAR): 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
11G2	455 m	155		

REMARKS:

Geotech core

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 11G2

SECTION #s: 2,3

DATE COLLECTED: 8/27/81

DATE ANALYZED: 8/27/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-155cm sec 3

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
60	U	0	11.5	4.0					
110	U	0	16.5	5.5					

Remarks:

sections cut with wire

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.30' N

LONGITUDE: 120° 06.48' W

STATION NO.: 11

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
11G3	434 m	162		

REMARKS:

Geotech core

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 11G3

SECTION #s: 2,3

DATE COLLECTED: 8/27/81

DATE ANALYZED: 8/27/81

ADDITIONAL DESIGNATION:

OPERATOR:

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

APPARATUS:
- vane machine #:
- hand ☐ or motorized ☐
- shear rate:
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F):
- calibration factor (A):

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-162cm sec 3

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
60	U	0	27.2	8.0					
110	U	0	26.9	6.3					

Remarks:

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.67' N

LONGITUDE: 120° 06.58' W

STATION NO.: 12

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
12G1	362 m	178 cm		

REMARKS:

NEBOO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 12G1

SECTION #s: 1,2

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-150 sec 1
150-178 sec 2

	Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
	20	S	0	1.0	0.1					
	40	S	0	2.5	0.7					
	60	S	0	5.0	2.0					
*	80	S	0	7.8	3.0					
**	100	S	0	8.0	3.3					
	120	S	0	12.6	5.5					
	140	S	0	15.0	6.0					
	150	U	0	17.7	5.0					X
	159	S	0	16.1	6.6					
	170	S	0	13.6	5.2					

Remarks:

* cracks in sediment at this point
** cracks near this point, 3 cm away

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 12G1

STATION NO: 12

* Archive core

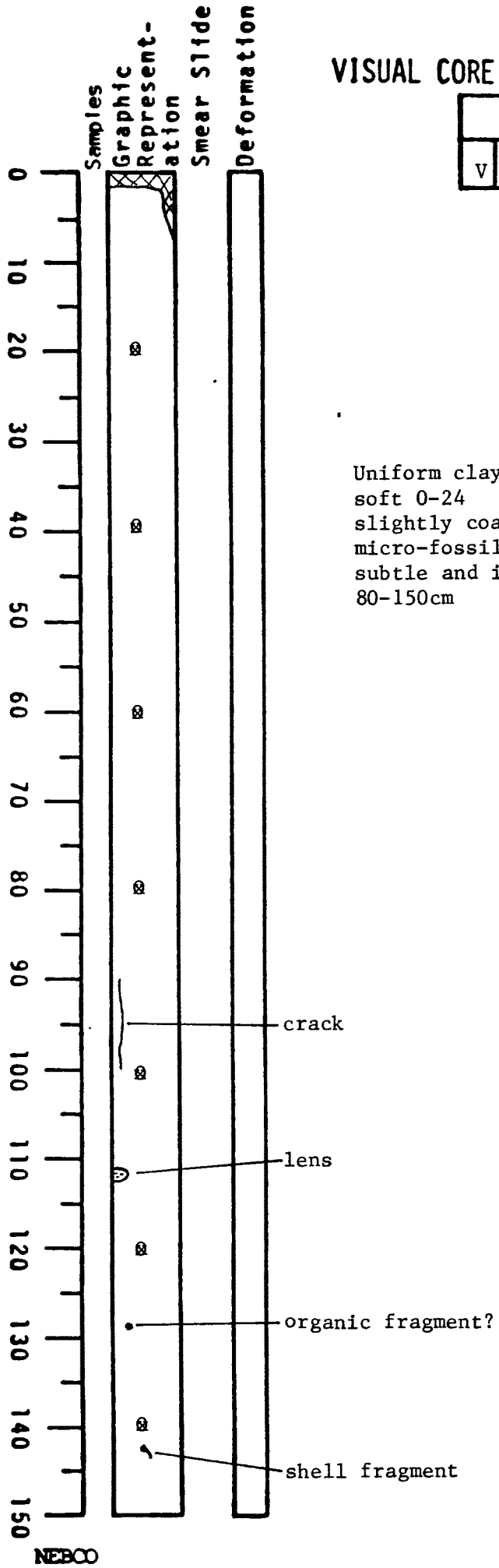
	SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
	1	20	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	1	40	Edwards	USGS	Wc,Suv	9/23/81
	1	60	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	1	80	Edwards	USGS	Wc,Suv	9/23/81
	1	100	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	1	120	Edwards	USGS	Wc,Suv	9/23/81
	1	140	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	2	150	Edwards	USGS	Wc,Suv	8/26/81
	2	159	Edwards	USGS	Wc,Suv	9/23/81
	2	170	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
*	2	152	D.S. Blunt	USGS	age date shell	1/12/82

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C		1	2	G	1		1

STATION#				OBSERVER
		1	2	BDE

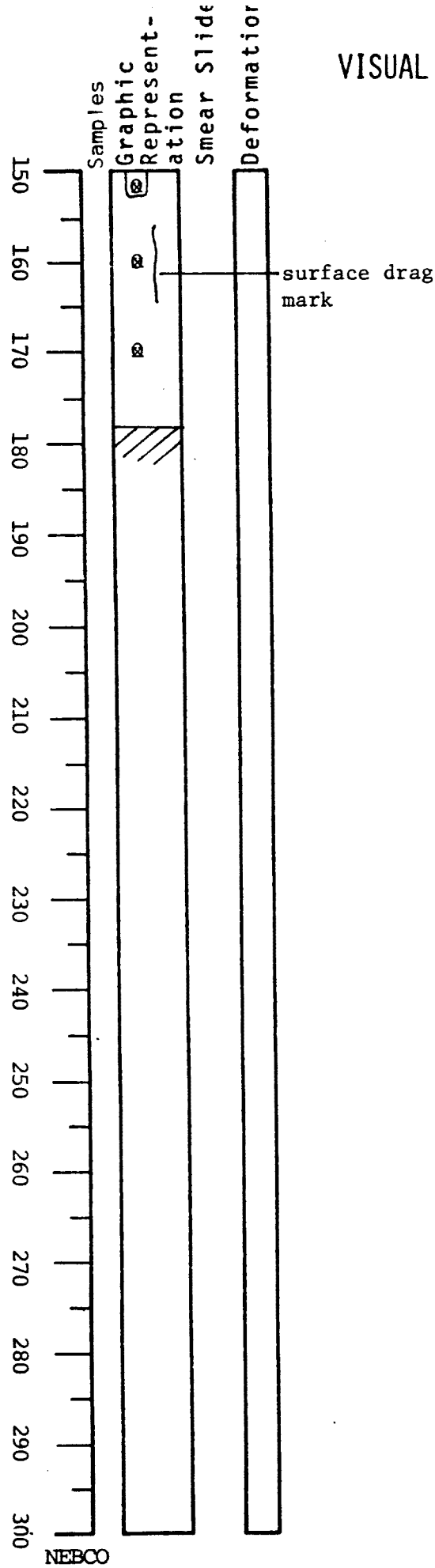


Uniform clayey silt 5Y 3/4 Olive brown
soft 0-24
slightly coarse in upper 60cm
micro-fossils throughout
subtle and indistinct layers and lenses
80-150cm

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C		1	2	G	1		2

STATION#				OBSERVER
		1	2	BDE



clayey silt 5Y 3/4 Olive brown
uniform throughout

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.87' N

LONGITUDE: 120° 06.54' W

STATION NO.: 12

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
12G2	336 m	186 cm		

REMARKS:

Geotech core

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 12G2

SECTION #s: 1,2,3

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u/S_r$

0-50cm sec 1
50-60cm-KK
60-100cm sec 2
100-110cm-KK
110-176cm sec 3
176-186cm-KK

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
60	U	0	13.4	3.8					
110	U	0	14.0	5.1					

Remarks:

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.20' N

LONGITUDE: 120° 07.13' W

STATION NO.: 13

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
13G1	418 m	164 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 13G1

SECTION #s: 1,2

DATE COLLECTED: 8/27/81

DATE ANALYZED: 8/27/81

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-150cm sec 1
150-164cm sec 2

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
20	S	0	2.2	0.8					
40	S	0	4.1	2.0					
60	S	0	8.0	2.8					
76	S	0	7.7	3.4					
* 100	S	0	12.9	5.4					
120	S	0	14.0	6.0					
140	S	0	10.6	4.0					
157	S	0	11.7	4.2					

Remarks:

* cracks caused by vane shearing

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 13G1

STATION NO: 13

* Archive core

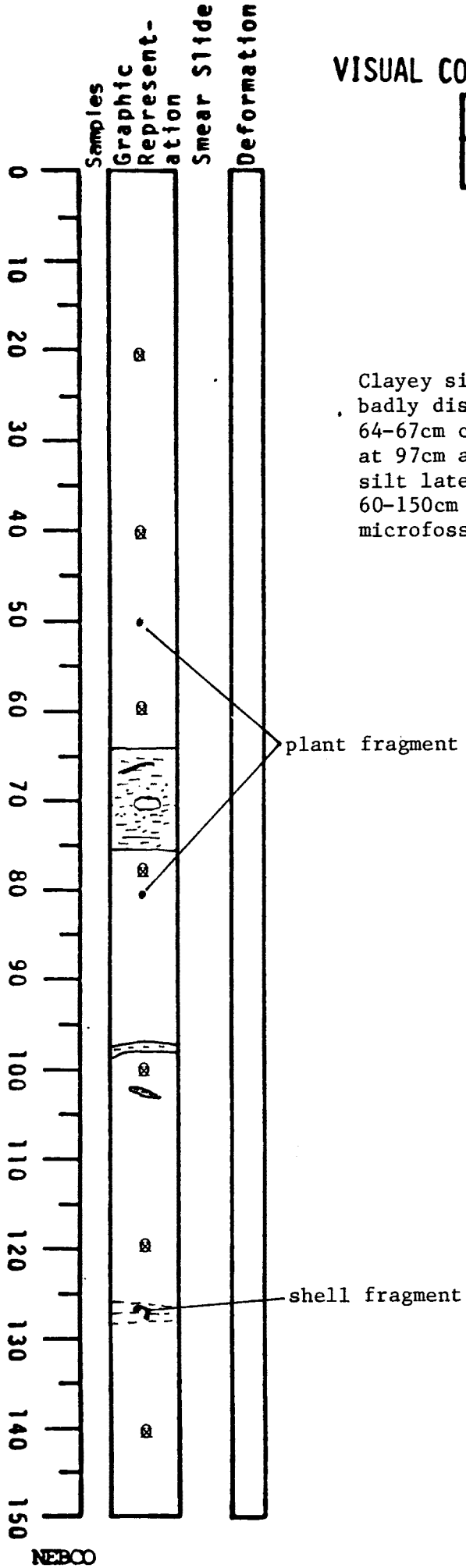
	SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
	1	20	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	1	40	Edwards	USGS	Wc,Suv	9/23/81
	1	60	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	1	76	Edwards	USGS	Wc,Suv	9/23/81
	1	100	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	1	120	Edwards	USGS	Wc,Suv	9/23/81
	1	140	Edwards Crane	USGS	Wc,Suv Atterbergs	9/23/81 1/5/82
	2	157	Edwards	USGS	Wc,Suv	9/23/81
*	1	72	D.S. Blunt	USGS	age date shell	1/12/82

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C		1	3	G	1		1

STATION#				OBSERVER
		1	3	BDE

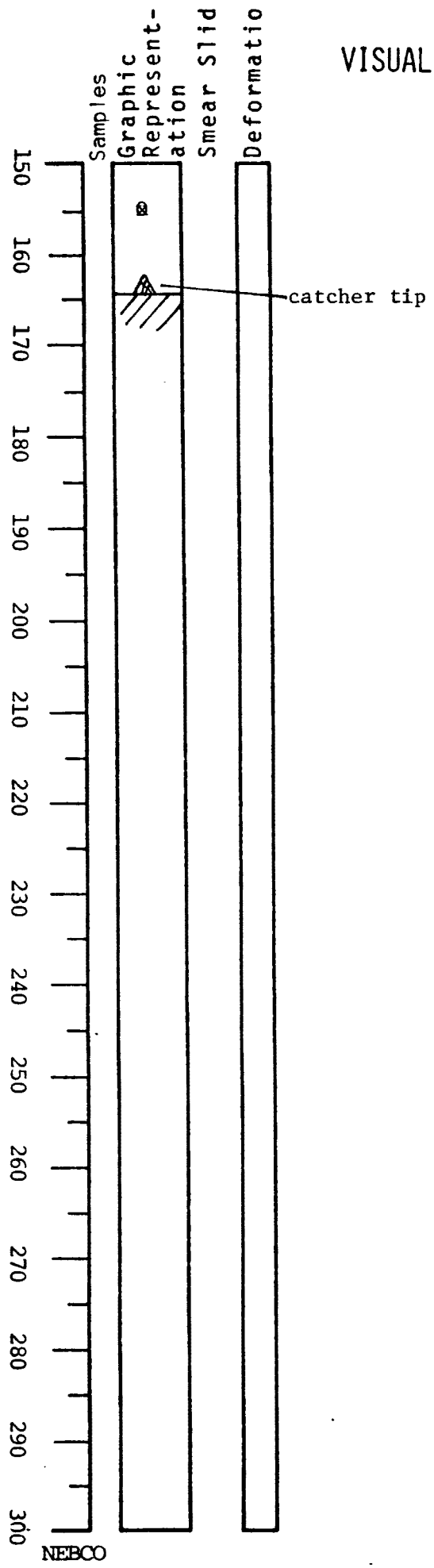


Clayey silt throughout 5Y 3/4 olive brown
badly disturbed 0-30cm
64-67cm coarse silt; layers are subtle, similar at 97cm and 125-130cm
silt laters are indistinct and occur frequently 60-150cm
microfossils are more abundant in coarse layers

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
V	1	-	8	1	-	S	C		1	3	G	1	2

STATION#				OBSERVER
		1	3	RPC



clayey silt 5Y3/4 Olive brown
microfossils throughout

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 34° 22.36' N

LONGITUDE: 120° 07.13' W

STATION NO.: 13

LINE NO.:

DAY/MONTH/YEAR

DATE: 8/27/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
13G2	396 m	178		

REMARKS:

Geotech core

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 13G2

SECTION #s: 1,2,3

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

0-50cm sec 1
50-60cm-KK
50-100cm sec 2
100-110cm-KK
110-168cm sec 3
168-178cm-KK

Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	Δl
60	U	0	6.5	1.8					
110	U	0	16.3	6.0					

Remarks:

USGS STATION LOG

SHIP / LEG: V1-81-SC

LATITUDE: 33° 40.97' N

LONGITUDE: 120° 31.16' W

STATION NO.: 14

LINE NO.:

DAY/MONTH/YEAR

DATE: 27/08/81

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
14G1		81 cm		

REMARKS:

NEBCO

SHIPBOARD GEOTECHNICS DATA SHEET

CRUISE: V1-81-SC

CORE #: 14G

SECTION #s: 1

DATE COLLECTED: _____

DATE ANALYZED: _____

ADDITIONAL DESIGNATION:

OPERATOR: _____

STORAGE PRIOR TO TESTING:
- refrigerated? ☒
- unwaxed? ☐
- waxed?
  - entire core? ☐
  - ends only? ☒
- Scotch Kote ends? ☐
- any obvious drainage? ☐
  - describe _____

$$A = \frac{F}{2\pi r^2 (h + 0.667r)}$$

$S_u = A(C-B)$

$S_r = A(D-B)$

$S_t = S_u / S_r$

0-81cm sec 1

APPARATUS:
- vane machine #: _____
- hand ☐ or motorized ☐
- shear rate: _____
- spring or torque cell #: 1088
- vane radius (r): ¼
- vane height (h): ½
- spring or torque cell factor (F): _____
- calibration factor (A): _____

	Depth	Split or Unsplit (S or U)	Original Reading (B)	Undisturbed Peak (C)	Remold Peak (D)	S_u (kPa)	S_r (kPa)	S_t	w/c bottle #	$\Delta \ell$
*	24	S	0	2.7	0.3					
*	40	S	0	21.0	9.0					
	60	S	0	41.0	19.0					

Remarks:

* sediment collapses slightly when vane is entered

SAMPLE LOG

LOCATOR: V1-81-SC

SAMPLE NO: 14G1

STATION NO: 14

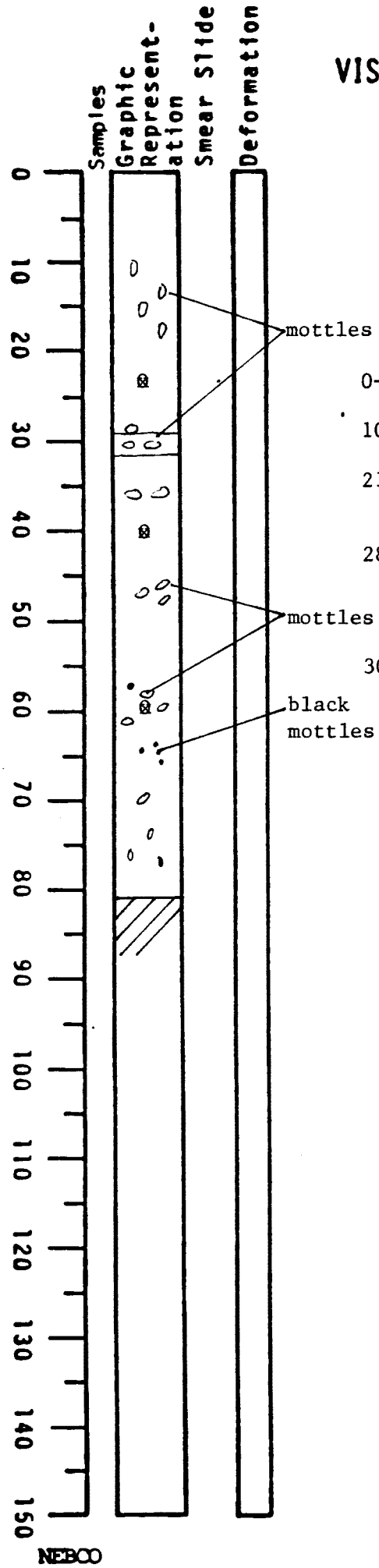
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	24	Edwards	USGS	Wc,Suv	9/23/81
1	40	Edwards	USGS	Wc,Suv	9/23/81
1	60	Edwards	USGS	Wc,Suv	9/23/81

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
V	1	-	8	1	-	S	C		1	4	G	1		1

STATION#				OBSERVER
		1	4	BDE



0-10: muddy,gravelly sand 5Y 2/1 olive black

10-21: muddy sand to sandy mud 5Y 2/1 olive black

21-28: sandy mud grayish brown 5YR 2/1 to dusky brown 5YR 2/2

28-30: sandy mud, 5Y 2/1 olive black with moderate olive brown(5Y 4/4) mottles

30-81: sandy mud matrix; 5Y 4/4 moderate oleve brown mottled with light olive brown lenses 5Y 5/6
at 60cm some olive black mottles(5Y 2/1)

black=Hydrotroilite??