USGS
science for a changing world
COASTAL AND MARINE GEOLOGY PROGRAM
WOODS HOLE FIELD CENTER (WHFC)

384 Woods Hole Road, Woods Hole, MA 02543-1598
Phone: (508) 548-8700

#105140

VISUAL CORE DESCRIPTION

SHIP AND CRUISE: GYRE 97006 Leg 2

AREA: Gulf of Mexico

DATES: April 16-25, 1997

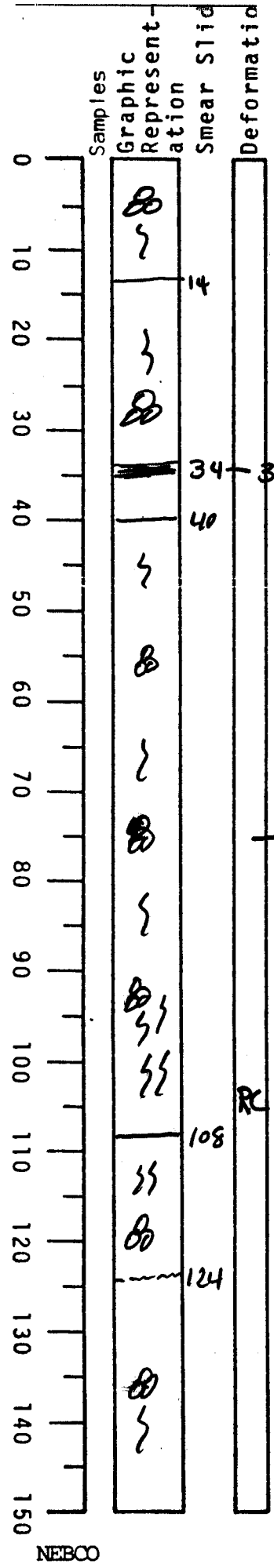
CHIEF SCIENTIST: David Twichell

VISUAL CORE DESCRIPTION

1 of 3

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC 01	1 of 2

STATION#	OBSERVER
	JED



0-14 dk yellowish brown calc clay 10YR 4/2 forams abdt.

34-36 black Mnox(?) stain

40 discontinuous iron-rich rusty colored lamina

14-108 light olive gray calc clay 5Y 6/1 forams common — abdt.

End Sect 1

slight burrows at top to moderate at bottom some foram filled

End of G. menardii

105 cm RCfn poss Holocene boundary

108-124 olive gray 5Y 4/1 calc clay moderate burrows forams common

gradational contact

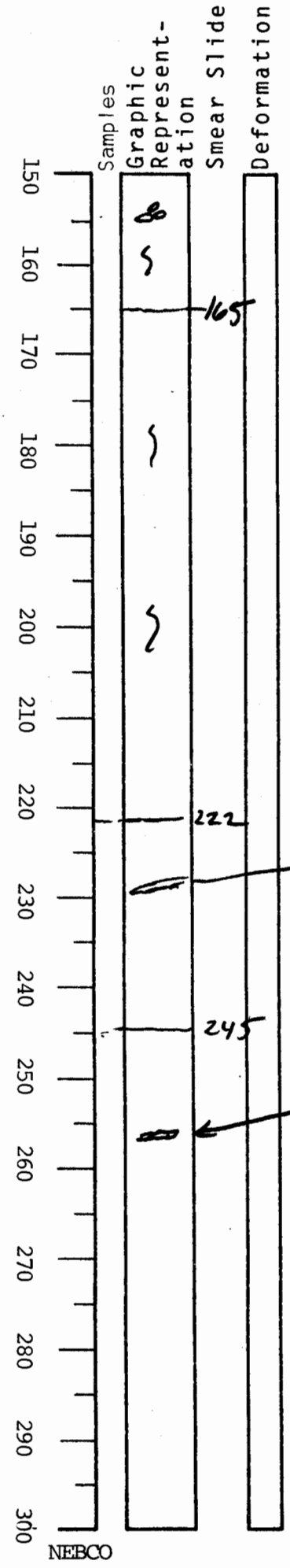
124-150 olive gray 5Y 3/2 clay w/ common forams

light burrows — some filled w/ fecal pellets

VISUAL CORE DESCRIPTION 2 of 3

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 01	3&4

STATION#	OBSERVER
	FED



150-165
olive gray 5Y 3/2
same as 12H-150cm

165-222 olive gray clay
5Y 4/1
smooth clay
forams rare to
slight burrowing

228-230 burrow forams common

222-245 smooth clay
brownish gray 5YR 4/1
forams present

256-258 burrow? blackish stain

245-300

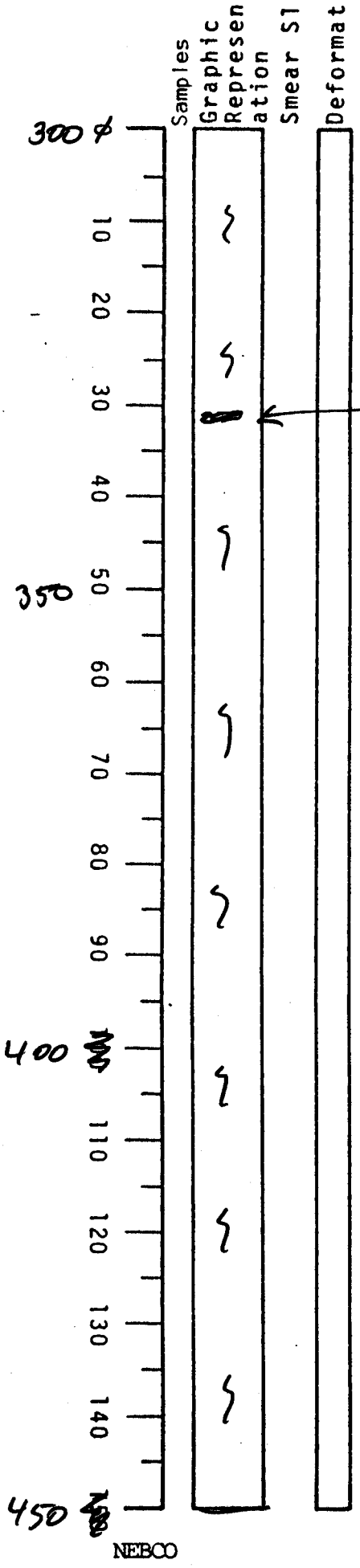
olive gray clay
5Y 4/1
smooth clay like 165-222
slight to moderate
burrows
forams present

VISUAL CORE DESCRIPTION

3 of 3

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 01	5&6

STATION#	OBSERVER
	JED



331-332 irreg dk gray lam w abdt. forams = burrow

300 - 450 cm

smooth gray clay

olive gray 5Y 4/1

(bout some variations in shades - too subtle for color chart - give effects of color bands at scattered intervals)

burrows common

many flattened - & darker gray

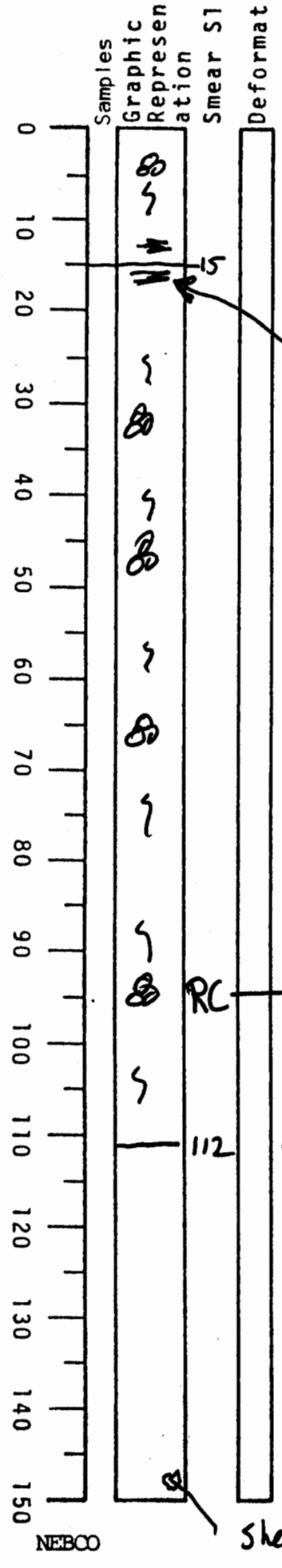
bottom of core = 450 cm

note: Vane shear test done every 5 cm.
NOTE 8 samples ≈ 20 cm see Sample log

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 02	1&2

STATION#	OBSERVER
	PED



0 - ~15 dark yellowish brown calc clay 10YR 4/2 - A burrow at 8

MnOx stains 12-13 15-17 cm

15 - ~38 dk yellowish bn calc clay 10YR 4/2 but slightly lighter than 0-15 lower contact gradational

forams common to abdt. - decrease downward
some burrows

38 - 112 olive gray (5Y 4/1)
calc clay -
forams generally abdt.
slight burrows

below 100 cm = lack of G. menardii possible Holocene / Pleist boundary

112 gradational contact

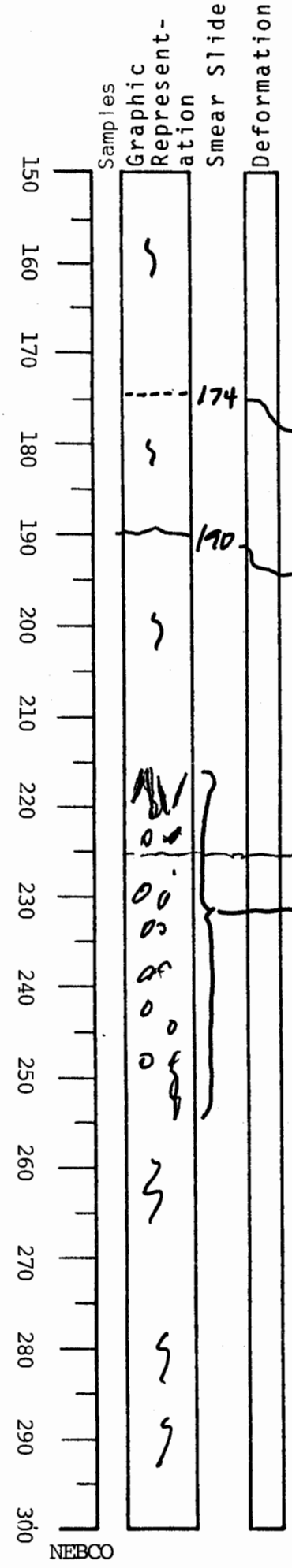
112 - 150 cm
smooth olive gray clay 5Y 3/2
homogeneous
rare burrows

white shell frag at 150 cm (or possible alga)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 02	3 of 4

STATION#	OBSERVER
	JED



150-190 ~~Stiff~~ smooth olive gray clay 5Y 3/2
section may have V. thin color laminae which are dk gray to black

174 thin <1mm st lamina V dk gray

190 contact somewhat irregular

190 - ~225
olive gray clay 5Y 4/1
lighter below 205
burrows common

225 ~~Top~~ gradational contact

205 - ~260 light gray burrows common
steeply dipping vertical burrows at top 205 - 225

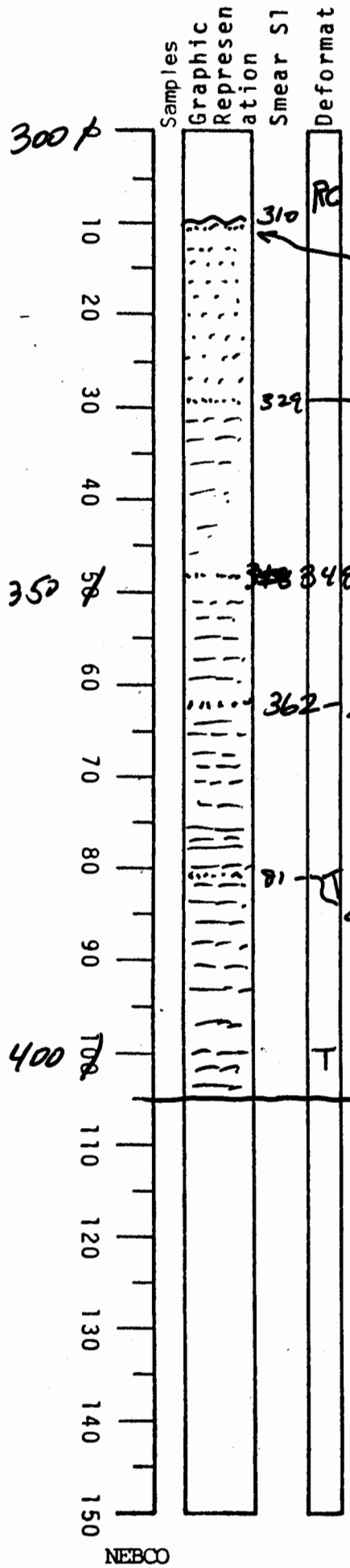
225 - 270 olive gray clay
5Y 3/2
burrows common

270 - 300
olive gray clay
5Y 4/1
burrows common

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 02	5&6

STATION#	OBSERVER
	JED



RC 308-310 cm - just above TBT

300-310
olive gray clay
5Y4/1 as above
310 0.5 cm silt ~~layer~~ lamina - irreg. thickness

310-329 - at least 30 silt lams ≤ 1mm thick

329 - 0.5 cm st ~~layer~~ lamina

329-~~[illegible]~~ 362 silt
~65 laminae

348 - 3mm st lam

362-364 2 cm thick silt bed

364-405
>70 st lams

0.5 cm lam

405 bottom of Core

310 to 405
olive gray clay
5Y4/1 with
numerous silt
laminae - most
are ≤ 1mm thick
some thicker
than 1 mm as
noted

310-405 has at least
125 st lams.

Note ~~[illegible]~~ Samples every ≈ 20 cm

Note: Vane shear test done
every ~~[illegible]~~5 cm.

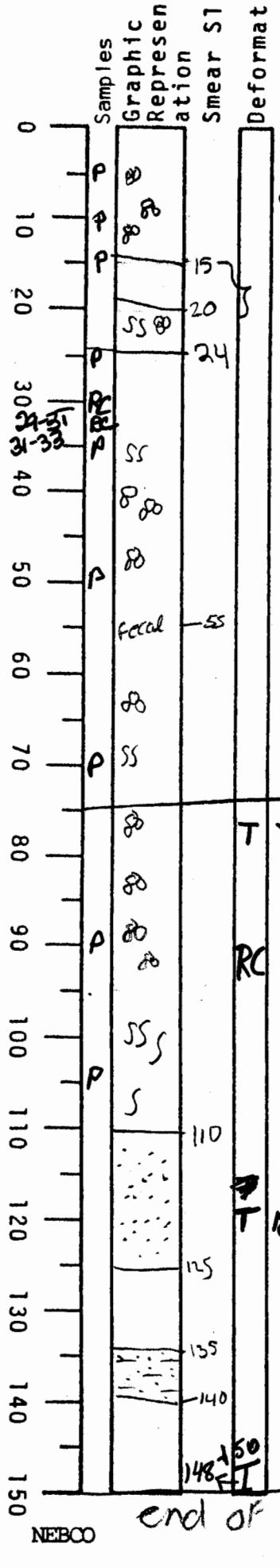
Bulk density correlates w/ lith change
Dark gray clay generally lacks ⊗'s ≈ Turb mud?

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7-6	PC 03	1+2

STATION#	OBSERVER
	Gita



0-24 cm. dark yellowish brown 10YR 4/2 clay. Forams abundant

15-20 banded darker clay (manganese color banding) olive black 5Y 2/1

24-108 olive gray 5Y 4/1 clay
Forams abundant, slightly burrowed
fecal pellets at 55

end of ~~section~~ 1

T 75-77cm
95 cm - G. menardii rare to absent
90cm common G. menardii

RC 91-93 cm for poss. H/P boundary

108-109 silt laminae

110-125 dark greenish gray 5GY 4/1 Silt
mainly silt, appear to have some
T 120-122cm lam. of clay - difficult to determine
thickness of clay laminae

125-135 dark greenish gray 5GY 4/1 clay
No burrows (or few if any)

135-140 dark greenish gray silt 5GY 4/1

end of section 2

145-150 siltfilled Burrows in dark greenish gray 5GY 4/1 clay (possibly)

110-125 Silt

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC 03	3/4

STATION#	OBSERVER
	Gita

Samples | Graphic Representation | Smear Slide | Deformation

150-160 olive gray 5y 4/1 clay, few forams, no burrowing

160-180 olive gray 5y 4/1 moderate burrowing - small burrows (1/2 cm)

180-200 dark yellowish brown 10YR 4/2 clay 1/2 cm. moderate burrowing, few forams,

200-255 olive gray 5y 3/2 clay abundant burrows. distinctive 1-2 cm. wide burrows at 221 and 225 and 254, burrows w/common shell fragments, larger burrows in general burrows filled with light olive grey clay

end of section 3

202-212 large burrows with olive brown and shell fragments (1mm.)

smaller burrows common 222-255 also lt olive brown

255-300 lt. olive gray 5y 4/1 clay moderately burrowed few forams if any

290-295 burrows with possible feral mottle

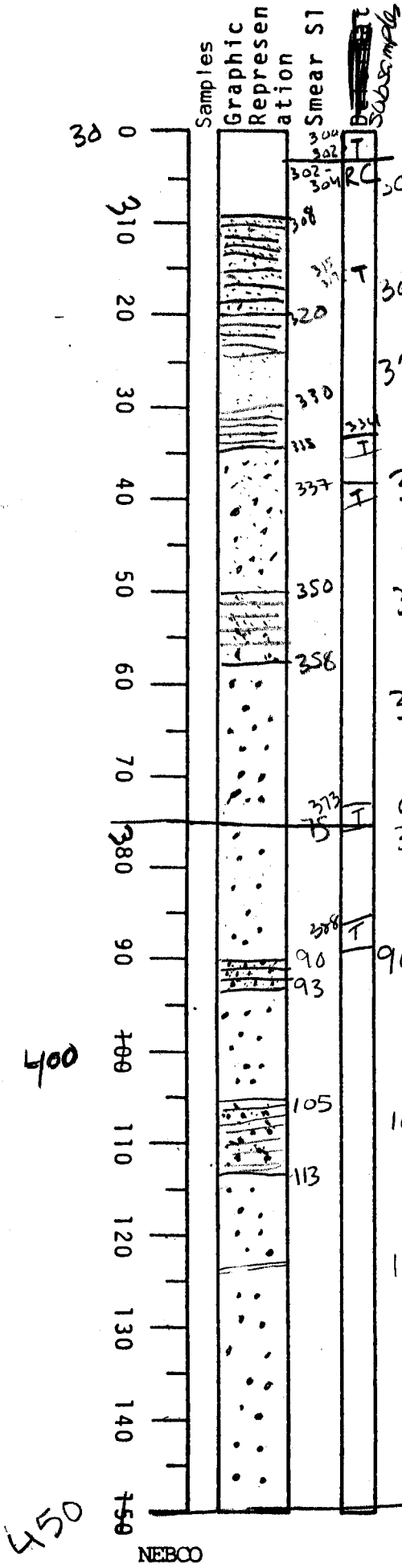
end of section 4

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GR 7 - 6	PC 035	5+6

STATION#	OBSERVER
	Gita



300-308 olive gray 5Y 3/2 clay

308-320 olive gray 5Y 3/2 silty clay
clay laminae 3-4 mm olive gray 5Y 4/1

320-335 olive gray 5Y 3/2 V. Fine sand
1-4 mm light olive gray clay laminae at 320-335

335-350 massive olive gray 5Y 3/2
VFM fine sand

350-358 olive gray 5Y 3/2 fine sand
3-4 mm light olive gray clay laminae

358-375 massive olive gray 5Y 3/2
Fine sand (same as 350-358)

end of section 5

375-450 Mostly massive olive gray 5Y 3/2
Fine sand w/ some clay laminae (see below)

90-93 clay laminae 3 mm wide

105-113 clay laminae 1-3 mm wide
Light olive gray 5Y 5/2

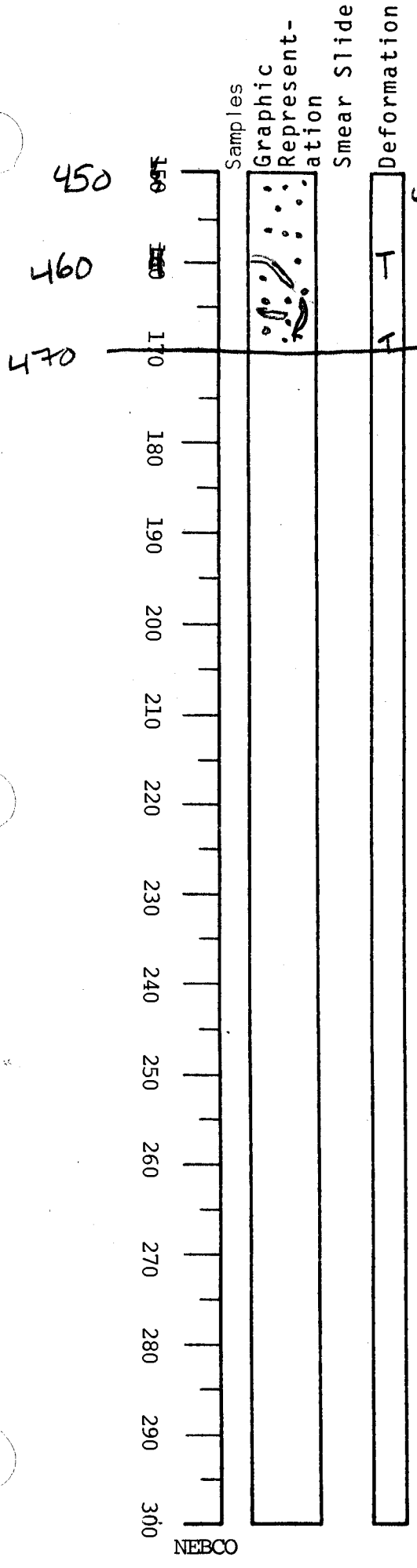
123 clay laminae 1 mm wide

end of section 6

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
G	9	7	–	6				P	C		0	3	0	7

STATION#				OBSERVER
				G.Ita



450-460 med-fine sand, mostly massive olive gray 5Y 3/2
3 - thin clay laminae (≤ mm) at 460 which does not appear across entire core - possible clay clast or flow in?

end of section 7

460-470 Fine sand - massive olive gray 5Y 3/2

one possible sand layer From 310-470 with intermittant 1 sets clay laminae 1-2 mm
Variable sand size very fine to medium
- also a possible interp of several episodes with basal 10-20 cm of massive sd + tail w/ clay + silt lam

Note vane shear every 5 cm except possibly in sd layers

& samples every ≈ 20 cm except in sd layer

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7-6	PC-4	1+2

STATION#	OBSERVER
	Gita

Color
grain size
Foram
burrow) - size
- orientation
- abundance
contact
laminae
homo
- uneven

Samples | Graphic Representation | Smear S1 | Deformat

0-40 dark yellowish brown 10 YR 4/2 clay
abundant Forams throughout
no visible
many discontinuous pale yellowish brown 10YR 6/2
laminae ? lenses ? throughout 0-40
few apparent burrows
10-15 darker lense
0-40 not uniform color
gradational color change

40

50

50-75 Light olive gray 5Y 5/2 clay
more uniform color
Abundant Forams, but less than at top of core
Few visible burrows

75

end of section 1 (core 1 did not split well)

75-150 Light olive gray 5Y 3/2 clay, uneven color
Forams common
burrows present

85

75-85 shells upto 4 mm - mostly white

125 shell fragment 7mm - white

RC

Loss of G Menardii @ ≈ 110
RC for poss Hol/Pleist boundary

125

end of section 2

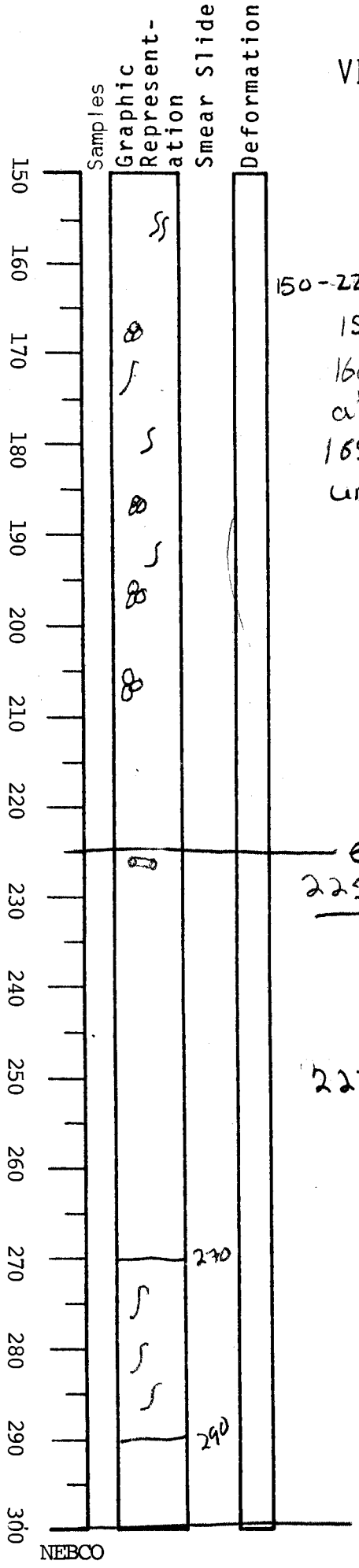
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-4	3+4

STATION#	OBSERVER
	GTR



150-225 olive gray 5 Y 4/1 clay
150-160 moderate burrowing
160-225 very minor burrowing - less than at top
165-170 few white shell fragments
uniform color

end of section 3

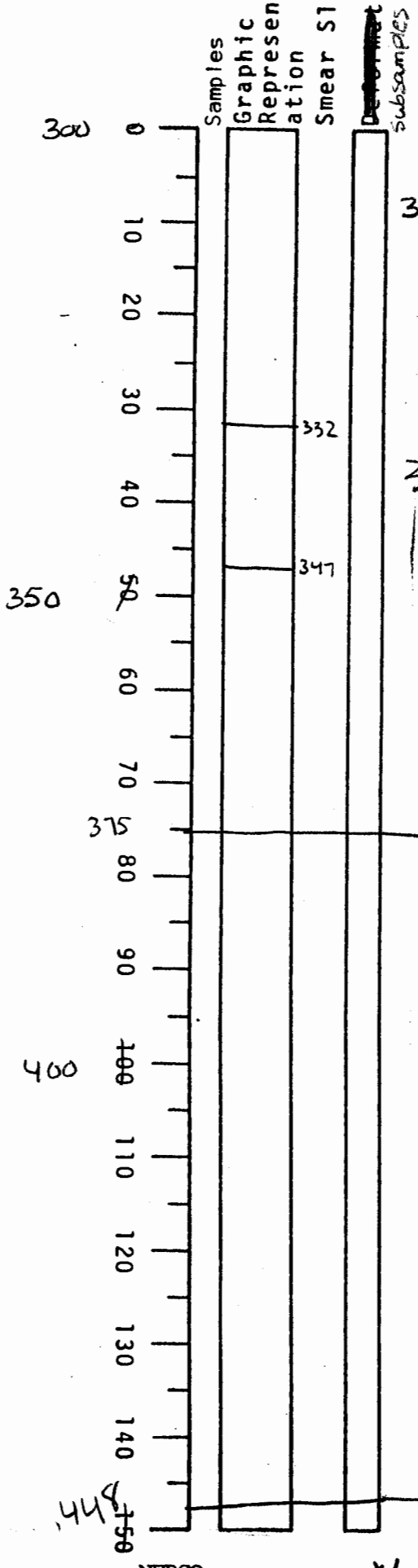
225-300 olive gray clay 5Y 4/1
no burrowing except minor amount in 270-290.
uniform color
no Forams
227 shell fragments

end of section 4

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	P C - 4	5 6

STATION#	OBSERVER
	Gita



300 - 448
olive gray 5Y 4/1 clay
homogeneous
Smooth clay
insignificant burrowing
no shells, no forams

332 - 347 minor burrowing

end of section 5

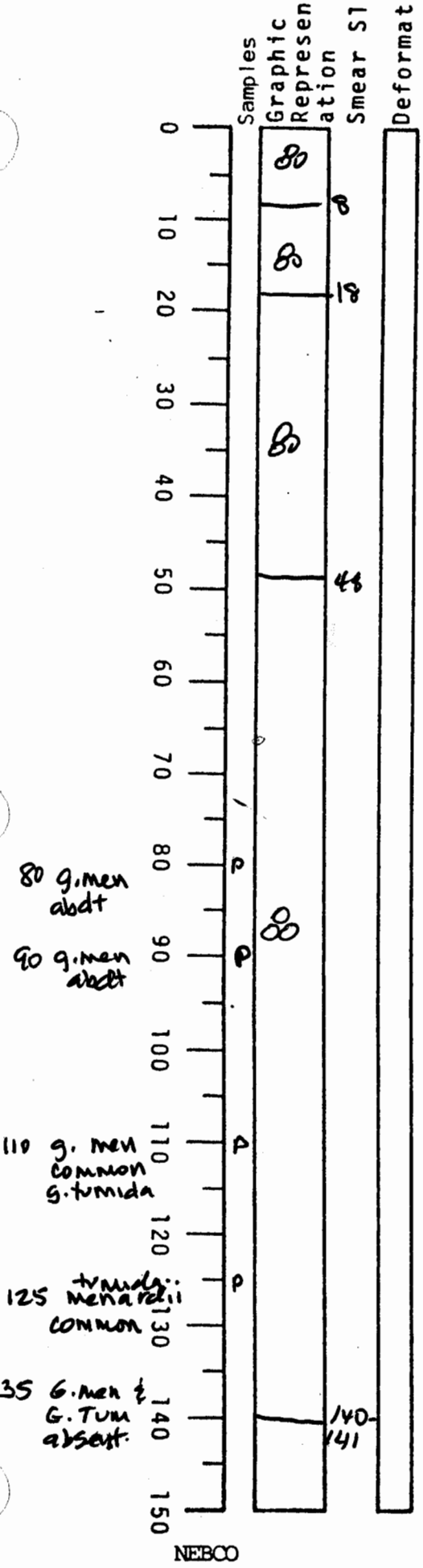
end of section 6

NOTE Vane Shear ≈ 5 cm
" 88 samps ≈ 20 cm

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 05	1&2

STATION#	OBSERVER
	JEJ



0 - ~8cm dk yellowish brn 10YR 4/2 forams common

0 - 18 cm Sediment very mushy - disturbed

8 - 18 grades from dk yellowish brn into olive gray 5YR 4/1

18 - 48 olive gray 5Y 4/1 but highly stained and streaked black N2 by hydrotroilite (reducing smell strong) Some strange vertical streaks unstained by hydrotroilite (1mm wide) of unknown origin forams common

48 - 140 olive gray clay 5Y 4/1 slight to moderate burrowed forams common

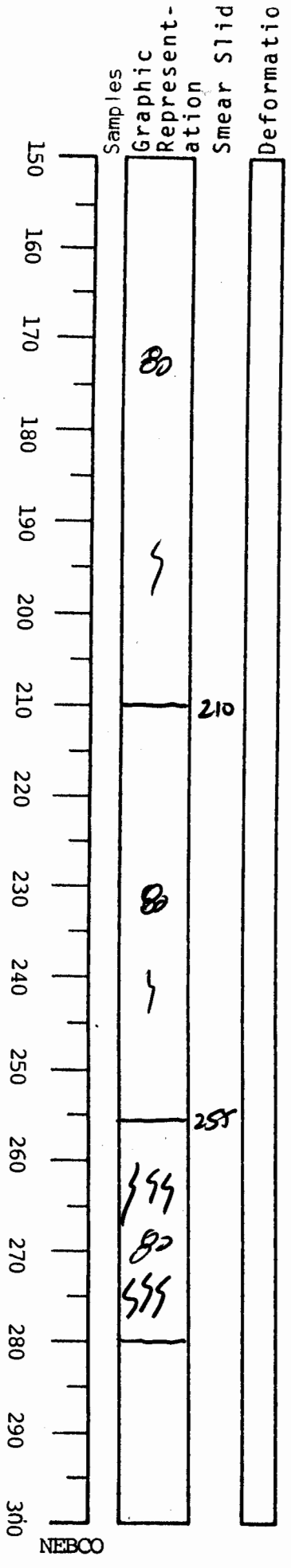
140-141 gently dipping irregular contact

141 - 150 + med gray N5 clay see below

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 05	3&4

STATION#	OBSERVER
	JED



141 – ~210

med. gray clay N5

slight to moderate burrows

forams common

Grades to slightly darker gray at ~210

210 – 255

medium dk gray clay N4

slight burrows

forams common

255–280

intensly burrowed gray clay

colors range between N5 and N4

forams common

280 – 300

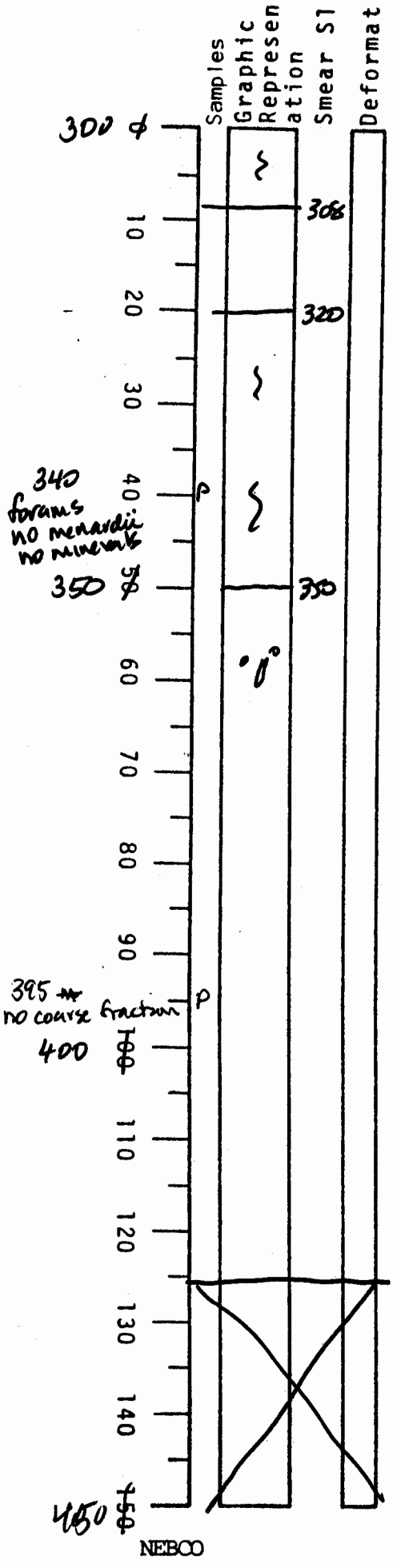
med gray N5 clay

see below

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 05	5&6

STATION#	OBSERVER
	JED



280 - 308
med gray clay N5
Slightly burrowed

308 - 320 smooth homogeneous structureless ~~gray~~ med gray Clay N5

320 - ~350 med gray clay N5
Slightly burrowed

350 to base 426

Smooth structureless homogeneous med gray clay N5

Slight burrowing near top incl vertical burro at 357-362

[NOTE: THIS MAY BE A MUD TURBIDITE OR TOP OF A GRADED TURBIDITE]

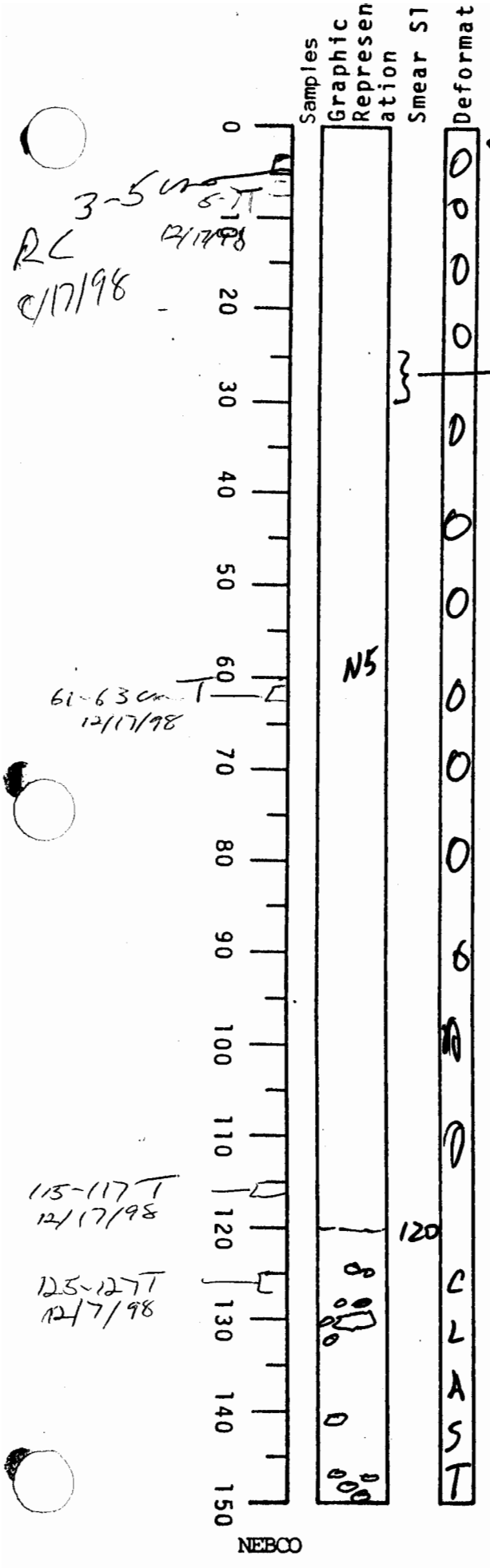
308-320 may be as well

426 bottom of core

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 06	1 of 2

STATION#	OBSERVER
	JED



TOP – no brown sediment section but brown wet watery on sides down to 10-20 indicates brown clay section was present above but lost during coring

25-30 slightly darker gray stains

0 – ~120

Very soupy deformed med gray clay (N5)

no apparent bedding or structure

forams appear to be present – possibly common

By 120cm definitely chaotic clasts & debris flow characteristics

~120 – 150 slightly less soupy med gray clay (N5)

There appear to be possible lighter and darker gray mud clasts (?)

This interval appears to be the top of the next interval 150 – 241 below

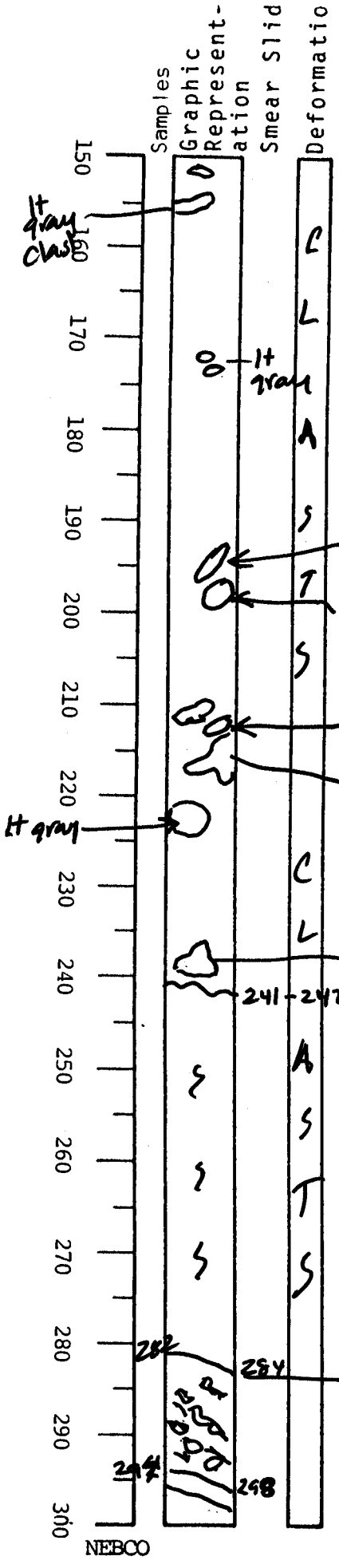
[NOTE TOP TO ~320 or 330 APPEARS TO BE DEBRIS FLOW DEPOSIT]

VISUAL CORE DESCRIPTION

3#4

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 06	3#4

STATION#	OBSERVER
	JED



(~120) 150 – 241

Med gray clay with numerous mud clasts of variegated size & gray color.
Shades of clasts range from dk gray N3 to med light gray N6 and are mainly rounded and deformed somewhat (a few are shown)

242 – 282

stiffer med gray (N5) interval of clay - scattered burrows

appears undeformed but may be a large clast

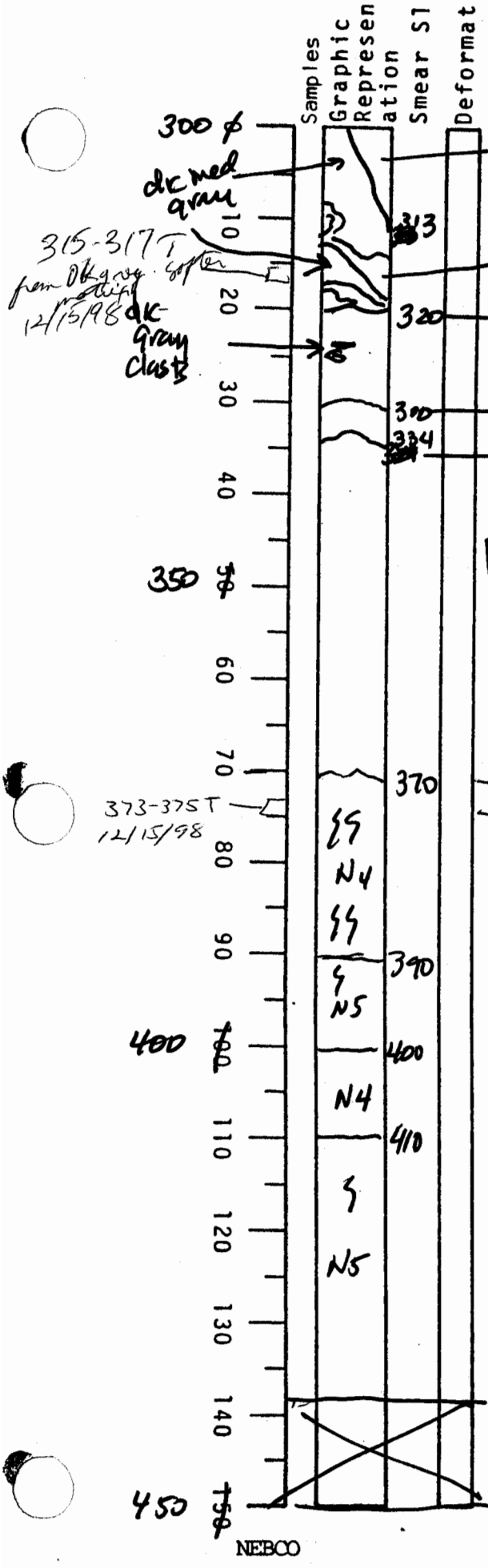
284-294 Medium dk gray (N4) clay with apparent highly deformed med gray (N5) clasts

294-298 to 300 moderately dipping gray beds

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE. NO.	SEC.
G97-6	PC 06	586

STATION#	OBSERVER
	JED



med gray

0-20 Steeply dipping flowed contacts med (N4) and dk med (N5) gray clay look like large deformed clasts

20-34 med gray clay clasts oriented flat about 23-25cm

[NOTE: BELOW ~330 SEDTS APPEAR UNDEFORMED]

334 - ~370

med gray N5 clay
burrows rare
appears undeformed

370-373 but highly fractured
Sample for AMS 2 April, 98 - wrapped
but gas

370-390 Med dk gray clay N4
well burrowed by lighter gray

390-400 med gray clay N5
slightly burrowed

400-410 Med dk gray (N4) slight burrows

410-438 med gray clay N5 burrows to 422

NOTE: ~320 to base 450
sedts are highly fractured with small cracks due to gas

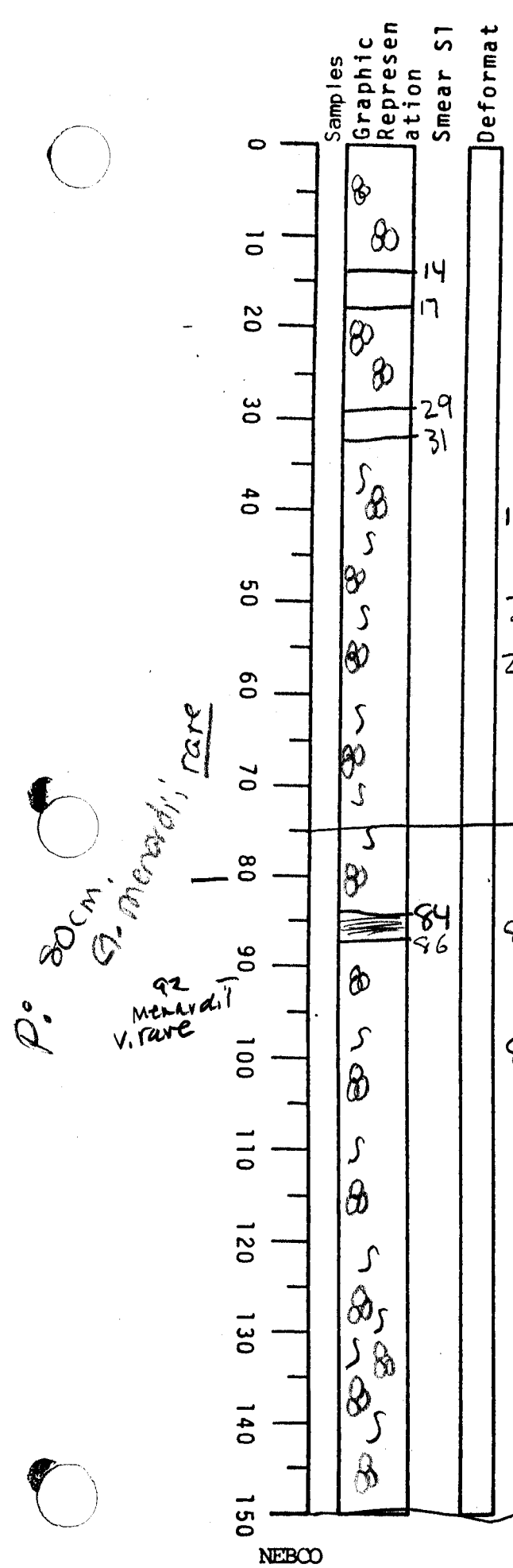
438 base

~~450 base core~~

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-7	1+2

STATION#	OBSERVER
	Gita



0-14 dark yellowish brown
10YR 4/2 clay
abundant forams
clay MUSH - no visible structures

14-17 iron stained 3 cm. band clay
darker & redder than above clay but
not enough to be diff. color on chart.

17-84 dark yellowish brown 10YR 4/2 clay
abundant forams

31-84 scattered burrows - greyish colored

29-31 manganese staining

end of section 1

84-86 thin discontinuous lamina
(maybe iron rich crust of Damuth, PTI)?

>92 cm ≈ below lacks G. Menardii ≈ H/P?

86-166 Light olive gray 5Y 5/2 clay
scattered darker gray burrows
forams abundant
color darkens slightly towards
166cm.

end of Section 2

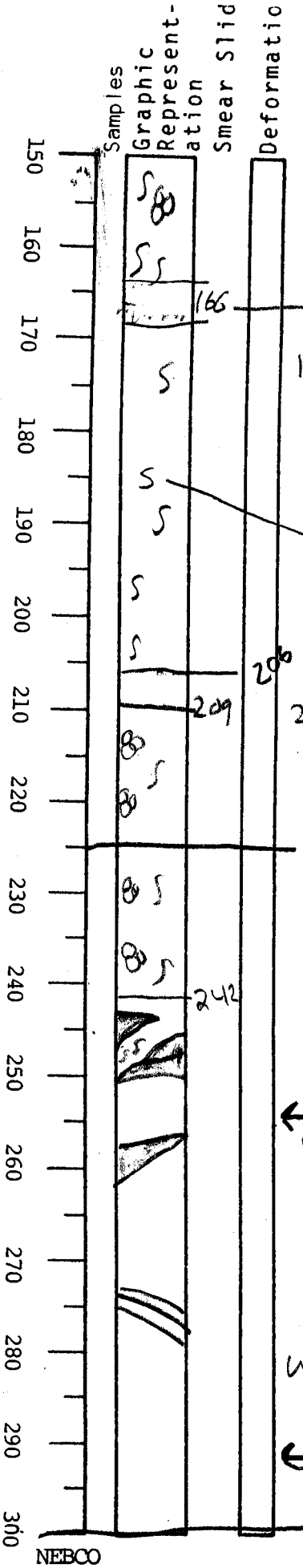
P. 80cm. G. menardii rare

92 Menardii v. rare

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC - 7	3 4

STATION#	OBSERVER
	Gita



S gradational contact at 163 - 167

167 - 209 olive gray 5Y 3/2 clay
inhomogeneous sediment
Forams common - but less so than above
moderately burrowed -
burrow filled w/ fecal pellets at 185 (1-2 cm wide)
other burrows are smaller.

206 - 209 gradational contact

end of section 3

209 - 242 olive gray 5Y 4/1 clay
moderately burrowed - small upto 1 cm²
uneven gray color - lighter with depth
darker gray nodules
Forams common

Note chaotic clasts @ 240 +

242 - 300 olive gray 5Y 4/1 clay
rare burrows
distinct reddish triangular beds at 242 - 250 and 258 - 262, steeply dipping, but not in consistent direction.

White shell at 247 and 289
some changes in lithology - clasts at 263.

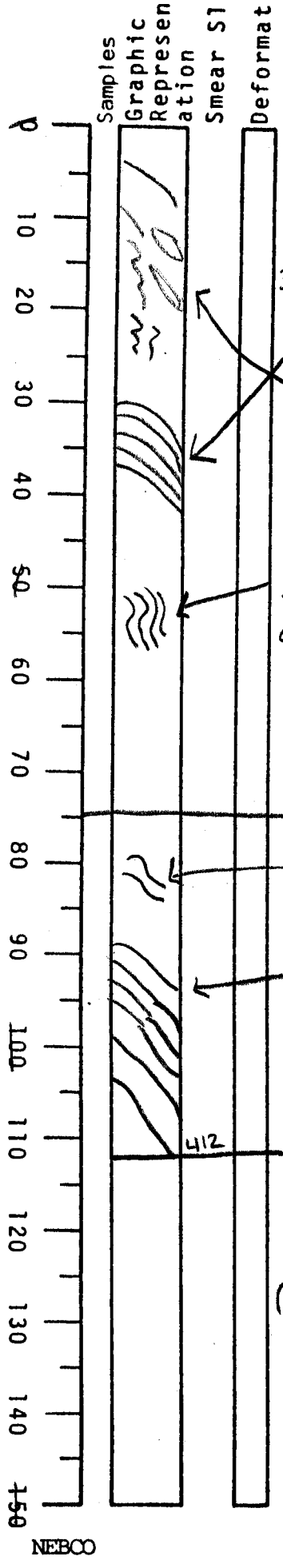
← Note chaotic clasts

end of section 1

VISUAL CORE DESCRIPTION 3 of 3

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC - 7	S 6

STATION#	OBSERVER
	Gita



300 - 412 Olive gray 5Y 4/1 clay

330-340 Steeply sloping darker clay layers about 7mm wide - somewhat deformed chaotic beds

possibly ptegmatic folds ?

at 360 clay is lighter gray

end of section 5

deformed layer)

steeply dipping clay layers alternating lighter + darker gray

end of section 6

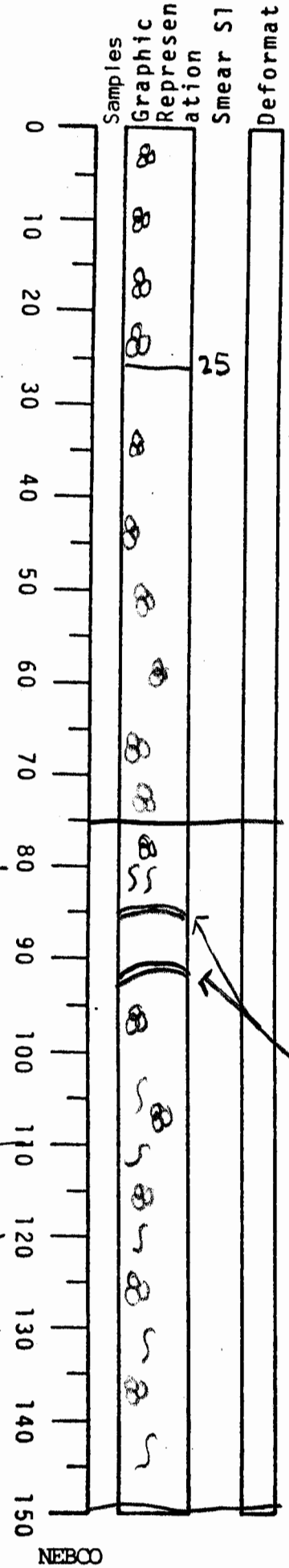
note: 240 — 412 could be mass transport deposit

Note ≈ 100 cm all beds pulled down increasing w/ depth till 385 to 412 pulled nearly vertical (coring artifact?)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
9 9 7 - 6	PC-8	1+2

STATION#	OBSERVER
	Gita



0-25 VCM soupy
almost liquid
darkish yellow brown 10YR 4/2 clay
abundant forams
no visible structures (see note)

25-75 darkish yellow brown (10YR 4/2) clay mixed with swirls of moderate yellowish brown 10YR 5/4 uneven color. NO visible structures (see note)
abundant forams

note: section 1 did not split well structures may have been obliterated. High water content

end of section 1

common G. menardii

75-153 dark yellowish brown 10YR 4/2 clay
Forams present
75-105 heavily burrowed - burrows upto 1cm
105-153 heavily burrow with large burrows upto 4 cm

at 85 & 93 thin (1 cm wide) band of iron oxide staining

rare Menardii tumida common

75-153 all burrows filled w/ darker gray clay.
80- Common Menardii
110 - rare Menardii
120 - absent Menardii — ~~possibly H/PL Boundary~~ ? ≈115cm

~~absent~~ rare Menardii tumida common

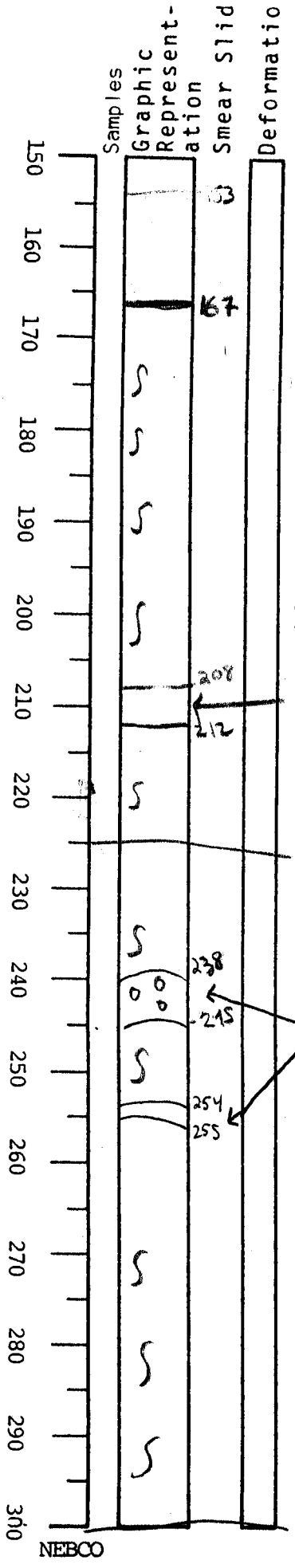
H/PL boundary below 120 cm.

end of section 2

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GP7-6	PC-8	3+4

STATION#	OBSERVER
	Gita



153-167 gradational contact

167-300 olive gray 5Y 4/1 clay
forams common
uneven coloring lighter & darker olive gray
lighter w/depth.

167-230 heavily burrowed - filled w/ darker gray clay

230-300 less burrowing

208-212 abundant white shells

end of section 3

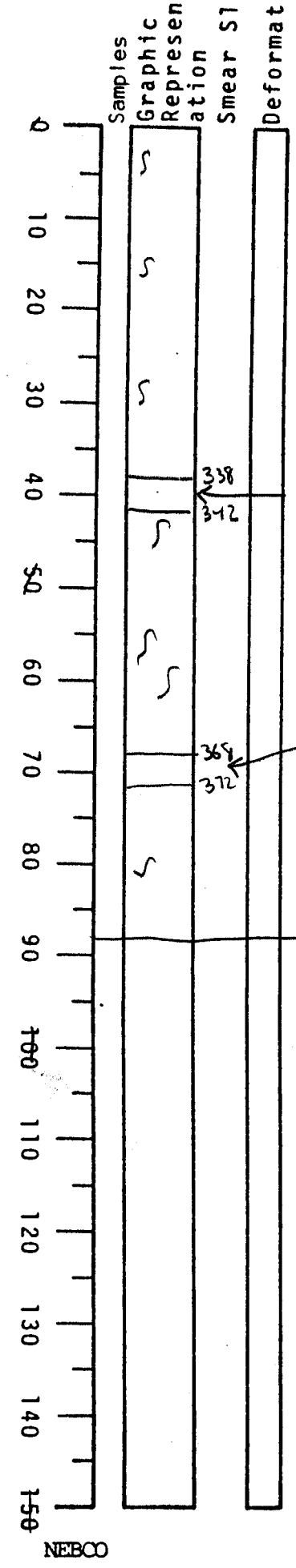
238-245 } smoother more pinkish clay layer
254-255 } (color chart can't distinguish color)
In upper (238-245) layer - gray clay clasts

end of section 4

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC - 8	5

STATION#	OBSERVER
	Gita



300-388 olive gray 5Y 4/1 clay

moderately burrowed - filled with darker gray clay

338-342 cluster of small (upto 1 cm) oval burrows oriented vertically in core.

368-372 cluster of small oval shaped burrows oriented vertically in core.

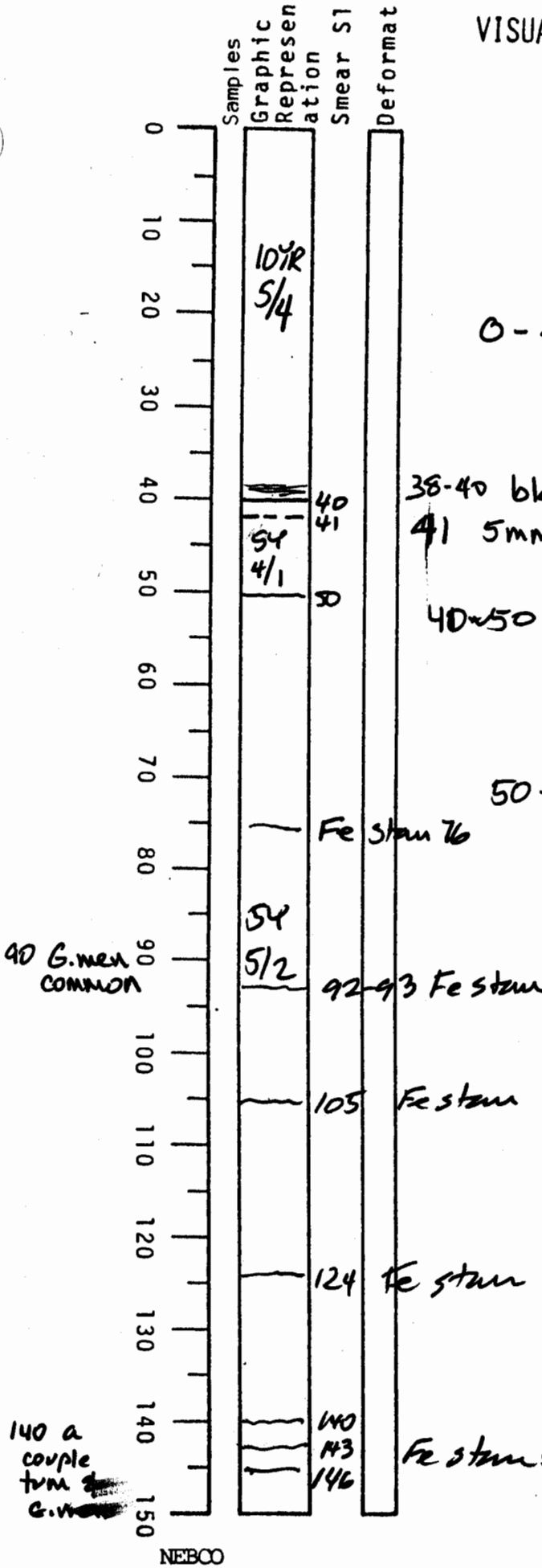
388 End of section 5

VISUAL CORE DESCRIPTION

1 of 3

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 09	1&2

STATION#	OBSERVER
	JRD



0 - 40 cm moderate yellowish brown calc clay with abdt forams

38-40 black MnOx(?) stains

41 5mm rusty lamina - Rusty crust? (Damuth, 1977)?

40-50 olive gray clay forams abdt

50 - 150 light olive gray clay forams abdt

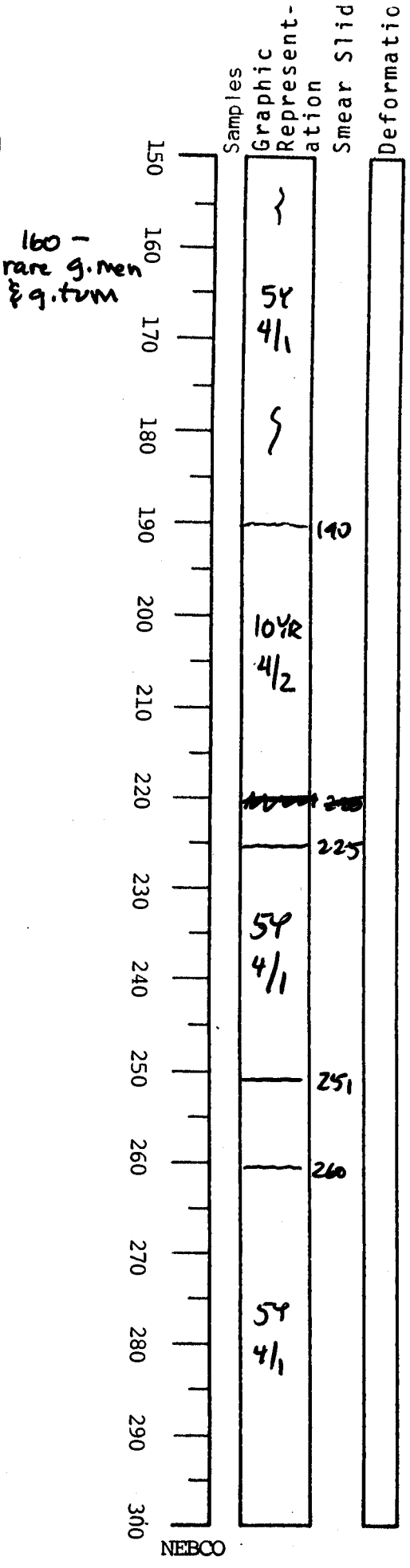
slight to moderate burrowing by darker gray

some faint Fe rust stained color bands as noted

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 09	3&4

STATION#	OBSERVER
	JED



150 to ~195 olive gray clay
forams common
slight to moderate burrows

190 to ~225 closer to
dark yellowish brn clay
forams common
moderate burrows

225 to 251 mostly
smooth, olive gray clay
and homogeneous
no burrows except
right near top
subtle laminae 249-251
[This section may be a
clay turbidite]

sharp contact

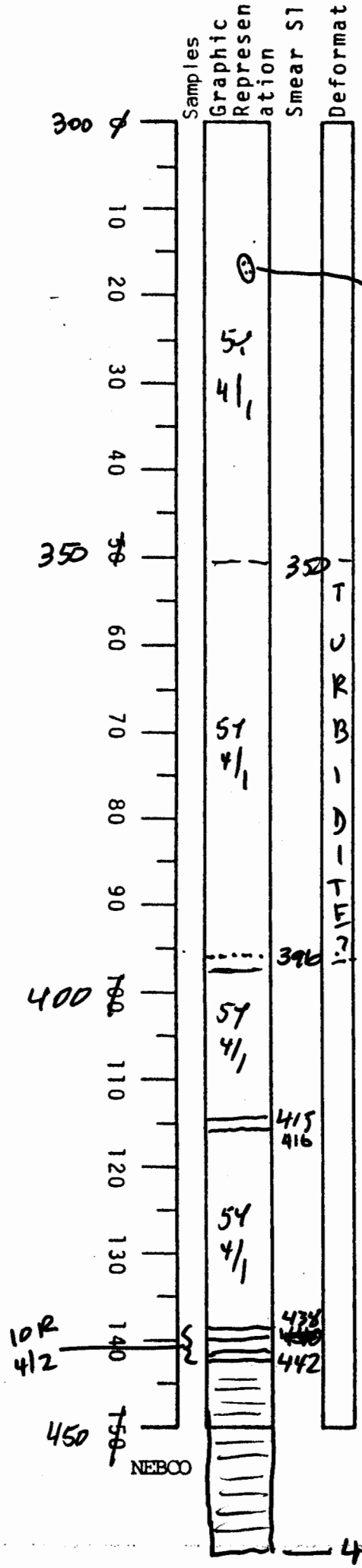
251 – ~260 gray clay with
brownish cast
grades into gray

260 - 300 olive gray clay
moderate to
well burrowed
forams common

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 09	5&6

STATION#	OBSERVER
	JED



316-19 large dk gray burro w/ small lt gray burros inside

300 - 350

Olive gray clay - moderate burrows

~350 to ~396

smooth homogeneous olive gray clay structureless no burrows

350-396 may be clay turbidite with slightly coarser lamina at base

396 1mm lam may be silty w/ small forams sharp base

397 slightly lighter gray clay lamina 5mm

397-415 olive gray clay - moderate burrows forams common

415-416 smooth structureless 1 cm gray clay ~~laminae~~ bed

416-438 olive gray clay moderate burrows

438-442 striking brick red laminae (~10) up to 4mm thick with thinner gray lams between grayish red 10R 4/2

442- base alternating gray and dark gray clay laminae 2-4 mm thick

470 base of core

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 10	1&2

STATION#	OBSERVER
	JED

Samples | Graphic Representation | Smear SI | Deformat

3-5 black MnOx lams

6-7 gray interval

10-13 black MnOx lams

[Note: Top 20 cm may be somewhat disturbed by coring]

15-22 gray interval

0 – ~52 mostly dark yellowish brn 10YR 4/2 foram rich clay

10YR 4/2

44-45 dk MnOx stain

52 51-52 faint rusty lams < 1mm

55 52-55 smooth gray clay

52 – 111 generally olive gray 5Y4/1 clay some faint burrowing

54 4/1

77 – possible faint < 1 st lams

80 – Gimen common

100 G. men abdt

109 – silty burros?

111 – 1mm st lamina

111 – 136 appears to be muddy graded beds mostly clay w/ v. thin fine st lams at bases sharp irreg. bases.

12/15/98 T

111 – 129 smooth gray clay graded bed clay → fine st

T

12/15/98 T

128 – 129 st laminae – v. fine w clay

12/15/98 T

130 – 132 fine-silt laminae – sharp irregular base

12/15/98 T

134 – 136 graded bed? clay with 1mm lam of fine silt at base

140 G. men common

54 4/1

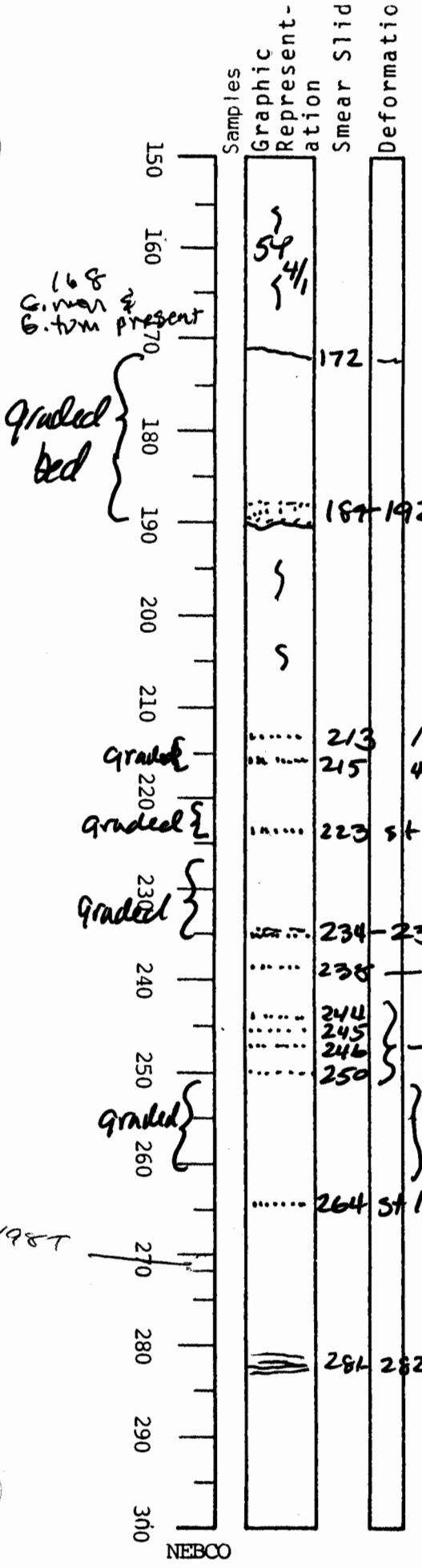
136 – 150 olive gray clay some subtle burrows

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 10	3&4

STATION#	OBSERVER
	JED



150-172 olive gray clay w/ subtle burros

172-192 smooth gray clay

192-209 may be burrowed

172 — 300 is series of graded beds composed mostly of smooth olive gray clay (5Y 4/1) with thin silt laminae at bases as noted

213 1mm silt lam

215 4mm silt lam mud

223 silt lam 3mm mud

234-235 silt bed sharp base

238 silt lam <1mm

244 245 246 250 <1mm silt lams

mud 264 — base smooth homogeneous gray mud

264 silt lam <1mm

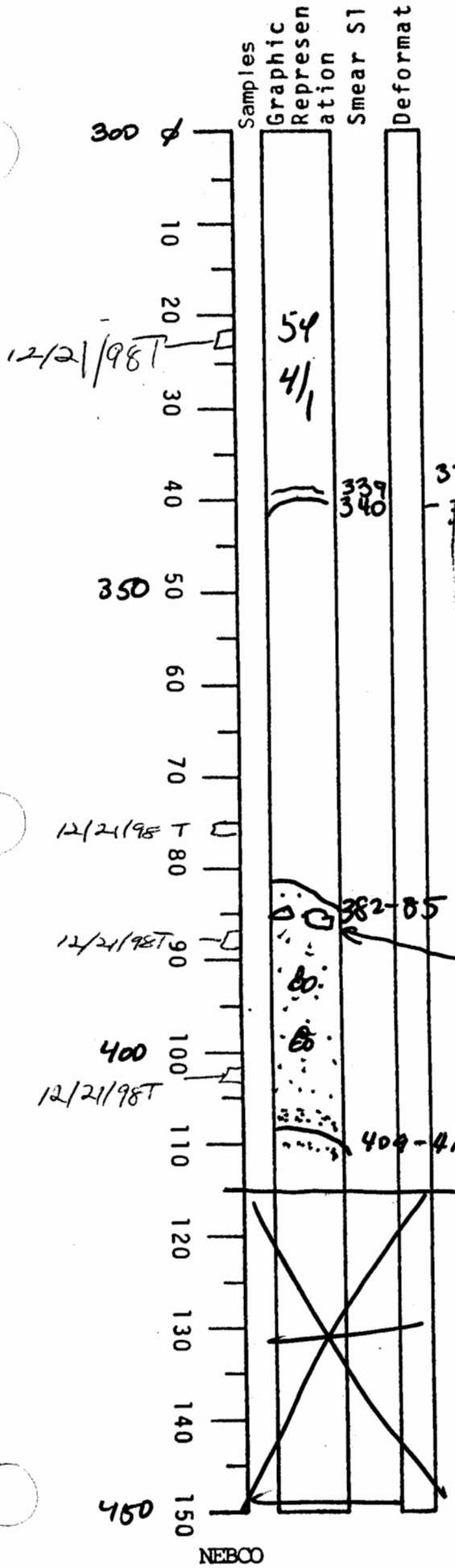
top of thick graded bed

281-282 darker gray stains

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 10	5&6

STATION#	OBSERVER
	JED



300 – 382 smooth homogeneous olive gray mud
bed starts at 264
sharp dipping base

264 to 382 appears to be a clay turbidite

382-409 appears to be gray silty mud with 2 large mud clasts near top and smaller ones <5mm scattered throughout
silty foram rich lams 406-409 appear graded to base

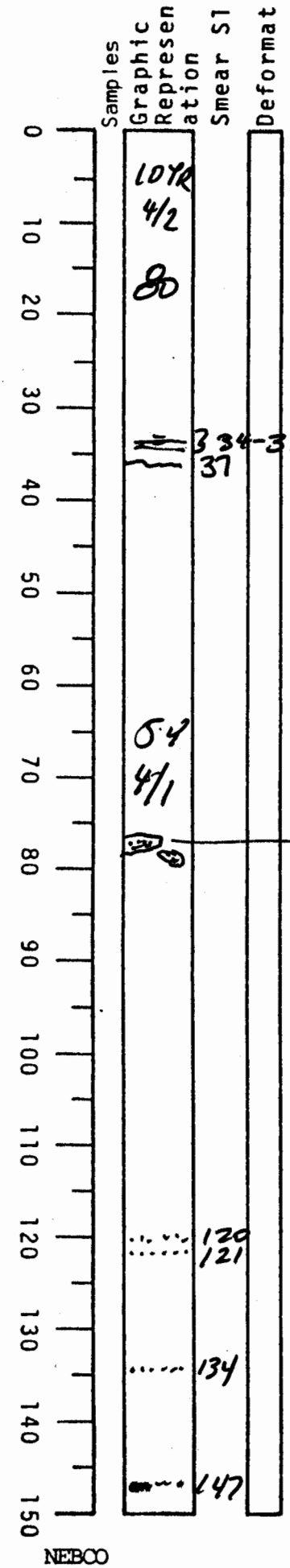
409-415 gray clay with st lam - 410

Coarse fraction in bed from 382–409 is mostly small forams + abundant silt grains

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 11	1 & 2

STATION#	OBSERVER
	JRD



Some subtle MnOx stains in top 5cm

0-37 dark yellowish brown foram-rich clay grades into gray belo

3 34-37 dk MnOx stains

37-~~150~~ 134 is mostly olive gray clay 5Y4/1 appears to have scattered burrows forams common

76-80 sd filled burros?

120 & 121 1mm st lams

134 2mm st lam

147 3mm st lam

belo 134 clay appears unburrowed with silt lams and v. thin color bands <1mm so may be clay turbidites

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 11	3&4

STATION#	OBSERVER
	J&D

152, 155, 157, 159 – st lams <1mm

164-168 = graded bed – clay to st

168 st lam 3mm thick sharp base

150 – [redacted] 168 olive gray clay homogeneous – turbidites?

168 – 215 – graded bed homogeneous olive gray clay at top grades into silty mud ~190 downward to silt and fine sd? at base

215 – sharp irreg base

NOTE: TURBIDITE SITS ON TOP OF DEBRIS FLOW

end of section 3

tilted clast 5x4 cm

8x4 cm

244 – large clast?

215 - 244 mud clasts of various sizes and variegated colors mostly rounded

colors range from olive gray to light olive gray [redacted] 5Y 6/1 to brownish gray 5YR 4/1

most clasts are stiff clay

this interval clast supported

245 - 251 cm AMS work+archive 11/12/98

264 – silty clay 4mm lam w/ black organic? mat'l MnOx?

272, 273 – black lams

244 – base 300 is olive gray laminated clay

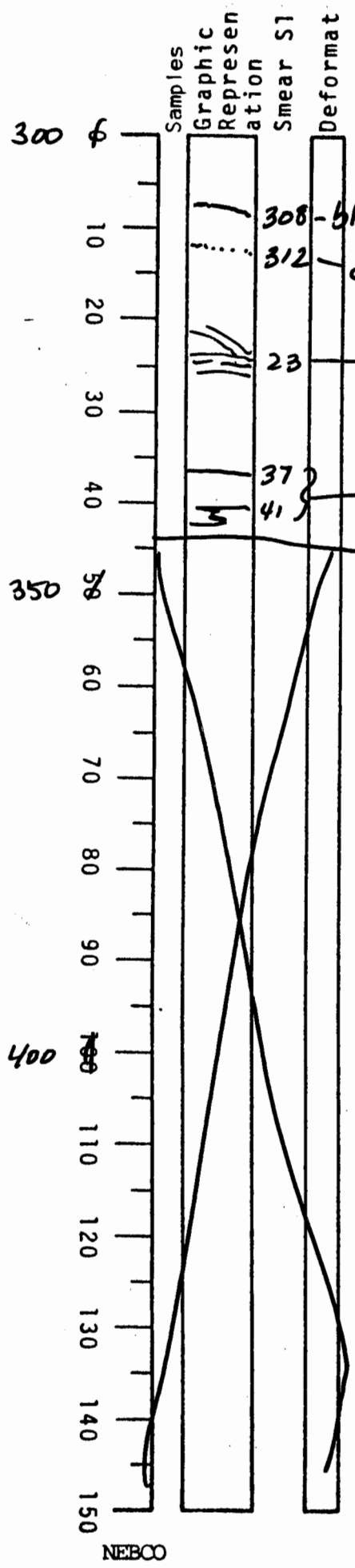
numerous laminae & color bands – individual color lams <1 to a few mm thick

287-290 grayish [redacted] 5 brown 5YR 3/2 clay lams gray lams between

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 11	5

STATION#	OBSERVER
	JSD



308 - black material forms lam.

312 - discontinuous 1mm st lam

23 - appears to be truncation - beds above dip steeper

37

41

3374-43 - striking grayish bn 5YR 3/2 (brick red) layer like above (287-290)

344 base of core

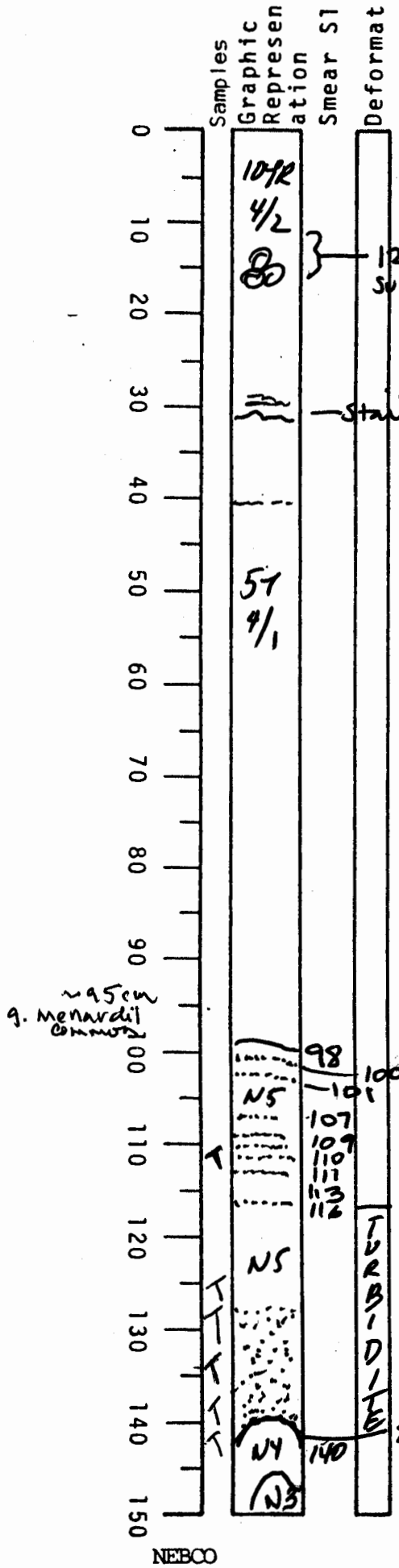
300 - 344 olive gray laminated clay like 244-300

5Y 4/1 laminae dip

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 1 2	1&2

STATION#	OBSERVER
	JED



0 – ~40

dark yellowish brown foram-rich clay transitions gradually to olive gray clay by 50

~40 to 98

olive gray clay

foram rich

slightly burrowed

98–116 medium ~~olive~~ gray clay (N5) with several silt lams as noted

1–2 mm silt lams

116–140 graded bed

med gray clay – homogeneous at top becomes silty by 127 cm grades down into silt

Sharp base 140

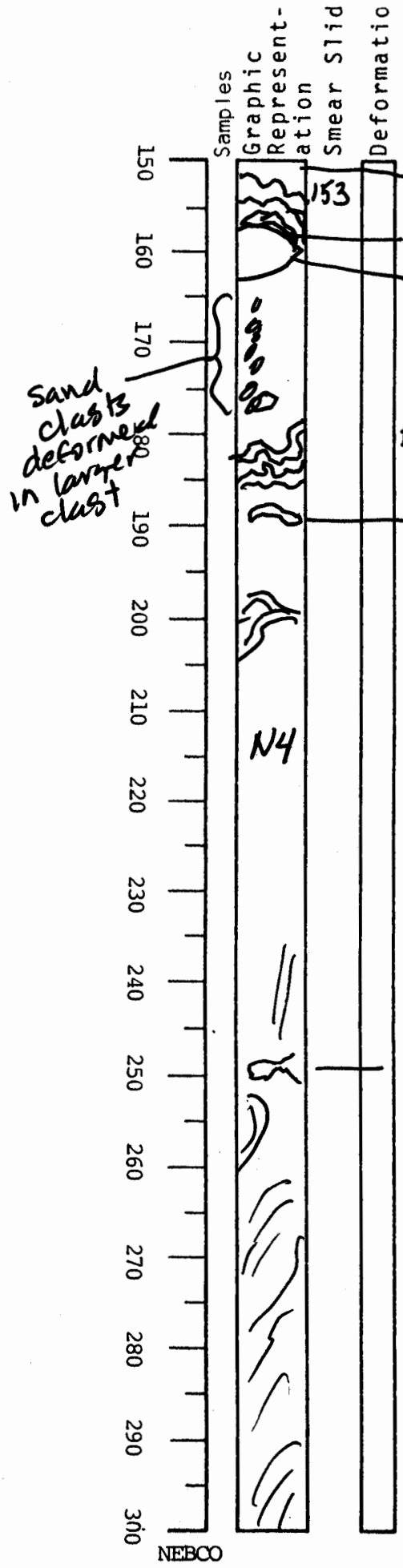
140–150 deformed mud clasts

Med dk gray N4 and dk gray N3

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 1	3&4

STATION#	OBSERVER
	JBD



150 – 300 is deformed mud clasts and blocks of various shades of gray

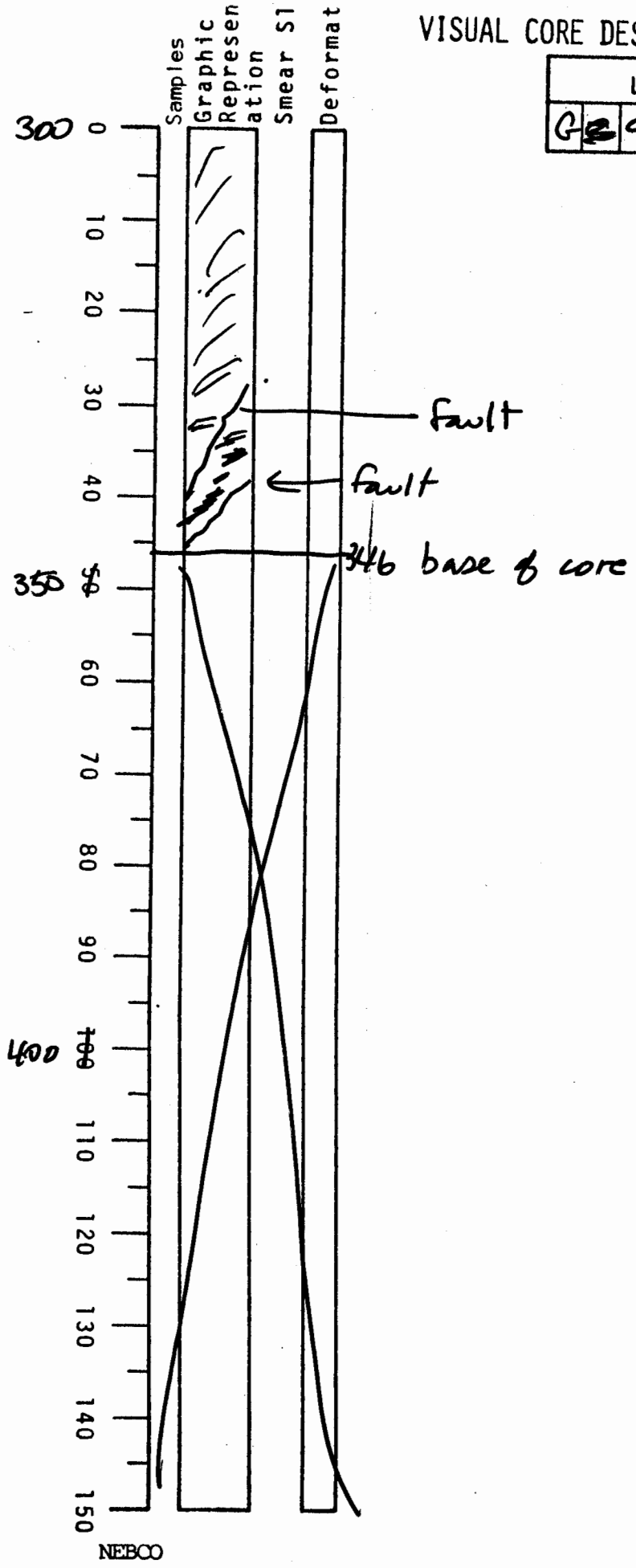
Mainly med dk gray N4 with some dk gray (N3) and med gray (N5)

Various structures shown

VISUAL CORE DESCRIPTION 3 of 3

LOCATOR								SAMPLE NO.				SEC.
G	~~E~~	9	7	-	6			PC		1	2	5

STATION#				OBSERVER
				JED



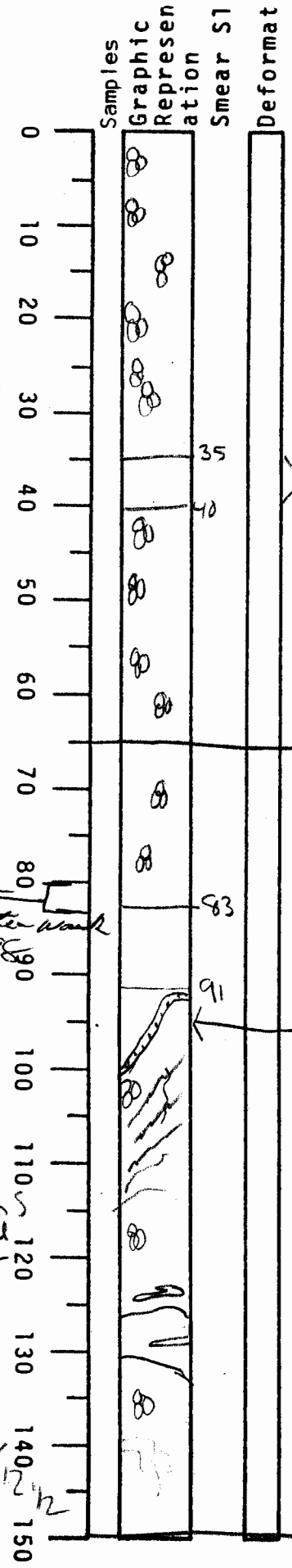
300–346 is continuation of deformed beds above

Steeply dipping colored layers are highly deformed and faulted layers are med dk gray and black N2

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-13	1+2

STATION#	OBSERVER
	Gita



0-35
dark yellowish brown 10YR4/2 clay.
structureless - soupy
Forams abundant
relatively homogeneous clay

gradational contact

40-83 olive gray 5Y 4/1 clay
Structureless - Firmer clay than above
Forams abundant w/ common detrital CF
uneven coloring

end of section 1

83-150 Forams common but detrital CF = dominate

83-91 olive gray clay 5Y 4/1 with red smudges - randomly oriented and discontinuous. (not banded)

3 mm thick band medium-fine silt and slightly darker gray color.
105 - white shell fragment

91-150 chaotic olive gray clay 5Y 4/1

90-130 alternating lighter & darker gray clays discontinuously and irregularly in vertical chevrons

80-140 - chaotic gray clays
all w/ ½ detrital ½ coarse fraction w/ menardii (slumped Holocene clays?

end of section 2

130-150 chaotic clay stringers

80-83 cm
AMS date work
2 April, 98

coarse = ½ forams
½ detrital

menardii common
coarse
has lots of detrital

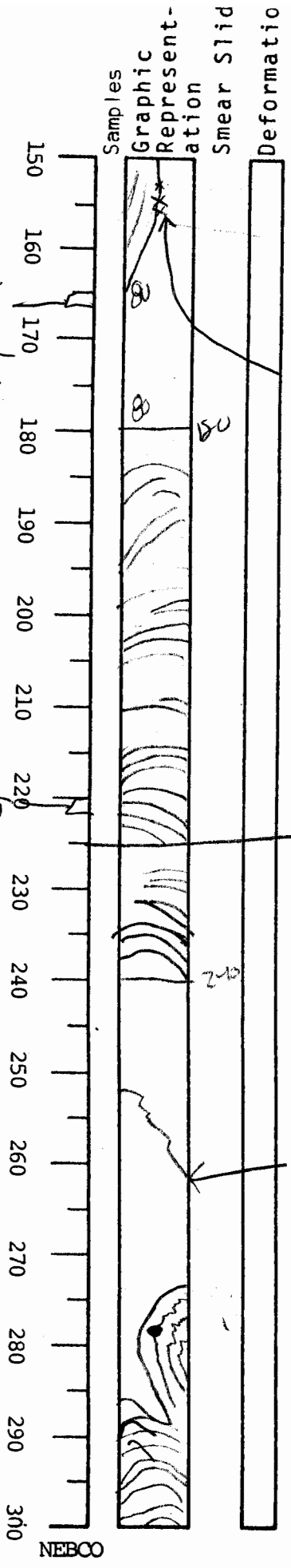
detrital ½
Forams ½

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GP 7 - 6	PC - 13	3 & 4

STATION#	OBSERVER
	Gita

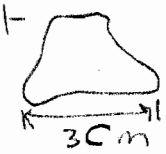


12/24/98T

175-177 cm thin sample 8/18/98

150-165 Slab of olive gray 5Y 4/1 clay - no structures

150-180 Light olive gray 5Y 5/2 clay

at 155 cm Rock clast - medium gray N4 Flat  silt/sandstone with pitted surface

150-180 NO distinct structure

Foram common.

180-240 chaotic olive gray 5Y 4/1 clay with distinct banding oriented similarly. bands range from 1mm-5 cm

distinct color changes From olive gray to reddish and bluish fringes in clay laminae repeats color of 80 to 90 cm 10R 4/2

12/21/98T

end of section 3

240-272 Olive gray 5Y 4/1 clay structureless

slightly darker irregular band

272-335 totally chaotic swirled clays olive gray 5Y 3/2

deformed band of differing colors

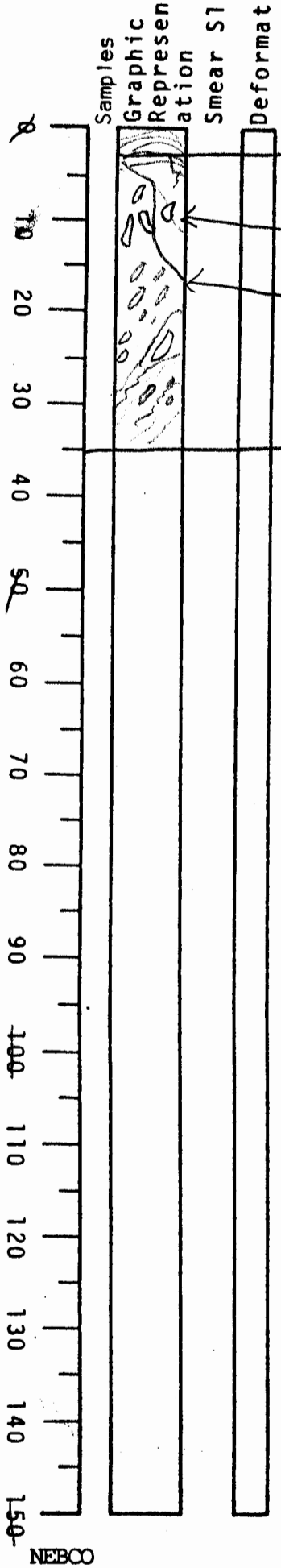
One round black clast at 277 1cm. across

Sharp contact between banded & non banded clays. deformed clays.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GP7-6	PC-135	

STATION#	OBSERVER
	GHa



302 end of section 4

deformed silt lenses

sharp contact

103-118 no banded layers

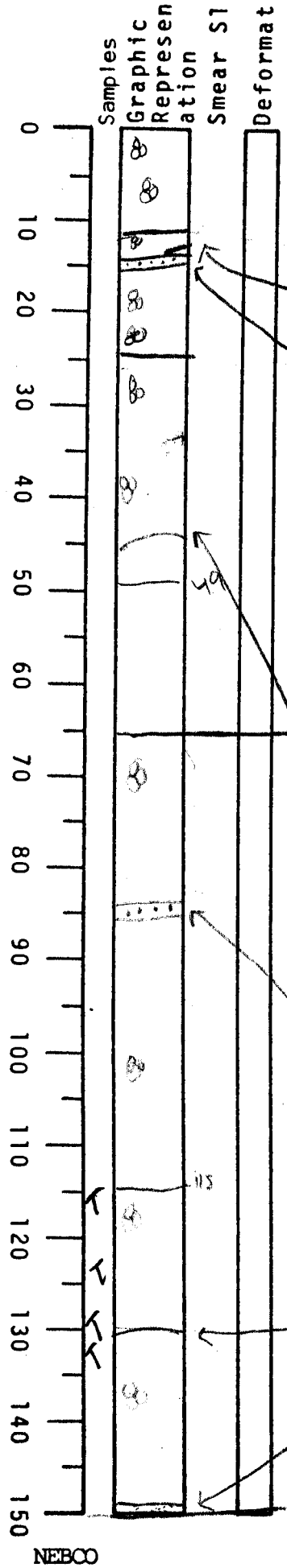
end of section 5

note:
slump from 75 cm mass transport to chaotic features to end of core

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
9907-6	PF-14	1/2

STATION#	OBSERVER
	GTG



0-10 dark yellowish brown 10YR 4/2 clay. Forams abundant. uneven color possibly due to manganese staining

11 cm. dark manganese stain band 1/2 cm wide

15-16 Foram sand

12-24 Light olive gray clay Forams abundant no structures

24 - manganese stained band 1/2 cm wide

26 - 49 dark yellowish brown 10YR 4/2 clay end of section 1 Forams abundant

47 - possible iron oxide concretions moderately abundant

49-115 olive gray clay 5Y 4/1 Structureless

84-86 Foram sand

115-150 olive gray 5Y 4/1 clay Forams abundant uneven color)

115-135 organic in >63M

130 manganese staining

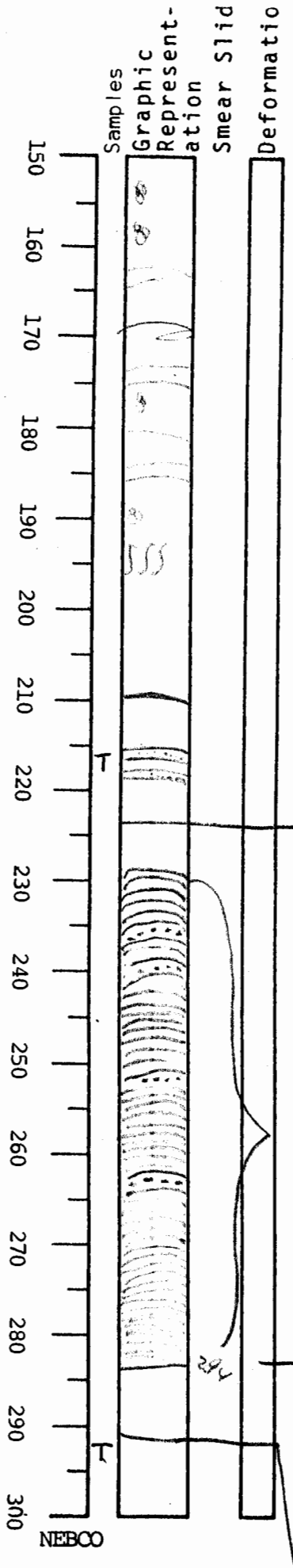
150 silt band

end of Section 2

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
69-7-6	PC-14	3+4

STATION#	OBSERVER
	Gila



150 - 284 olive gray clay 5Y 4/1
Forams common subtle color banding
bands of yellower,

210 - 220 alternating layers of silt + clay
mostly 1-3 mm wide at 217 2 wider
bands of silt

end of section 3 (223 cm)

230 - 284 continuous, regular bands of
clay slightly different color 1-2 mm wide
with bands of silt (darker gray)

The bands of silt widen w/ depth
the band at 263 is the widest at
upto 1 cm wide
then the band get narrower

269 sharp contact

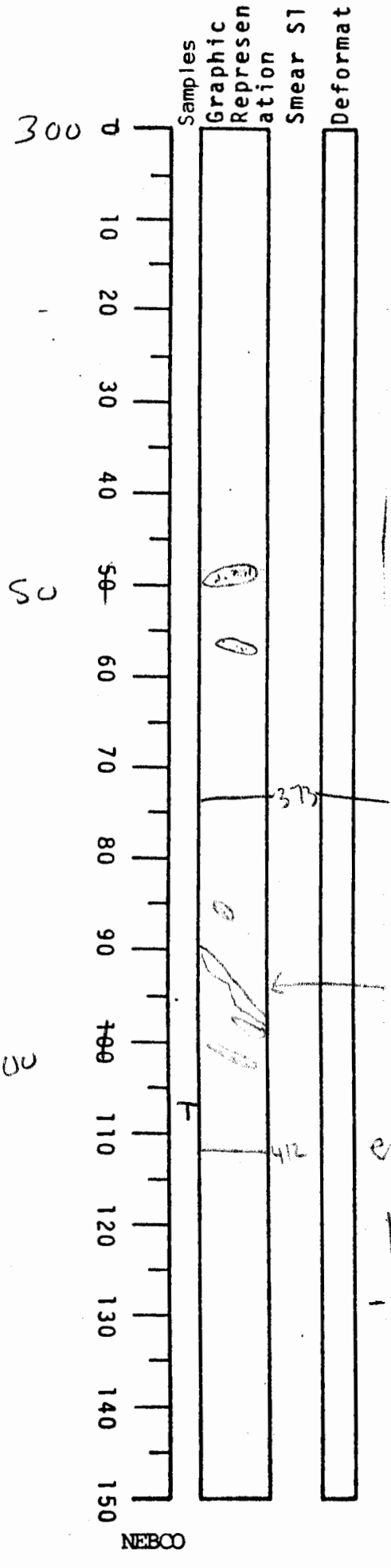
284 - 412 olive gray 5Y 4/1 clay
structureless
with some silt beds
possibly chaotic

end of section 4

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC - 14	5 & 6

STATION#	OBSERVER
	GTa



silt 348 - 350
irregular bound

end of section 5

silt

end of section

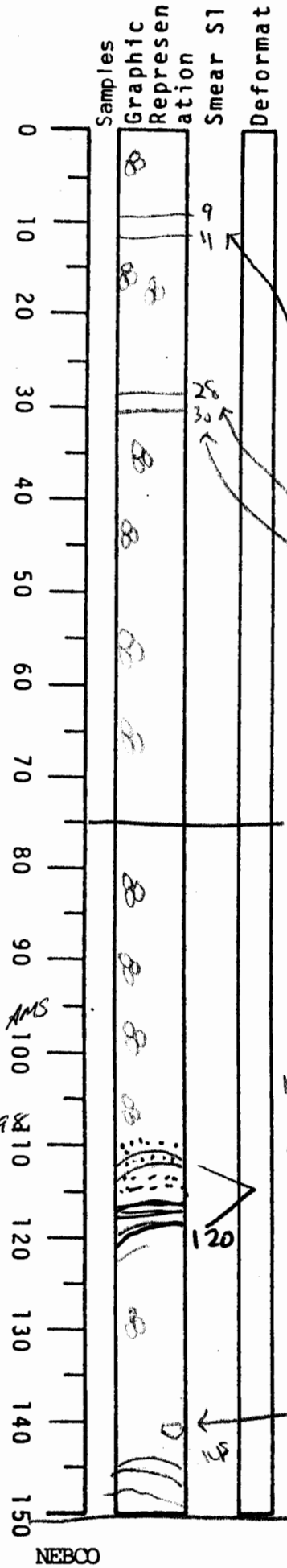
Note: overall lack of burrowing

- sample at 412 (2-3 cc) yielded small quantity of 76 sm (rare forams + rare mineral grains)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-15	1+2

STATION#	OBSERVER
	Gira



0-30 dark yellow brown clay
Clay 10YR 4/2
Forams abundant
variable color

9-11 manganese staining

28- iron oxide layer 3/4 cm wide?

gradational contact

30-145 olive gray clay 5Y 4/1
structureless
Forams common

end of section 1

NOTE:
0-120
appears in place
normal sedimentation
120 - base of core
appears to be
displaced M.T.D.
(mass-transport deposit)
AT ~120 dipping
Contact indicates
top of displaced
section below

103-107
[illegible] - AMS
12/11/98
107-109 cm
AMS 8/18/98

113 - silt band

113-117 7 <1mm st lams

117-122 manganes staining
Forams common

145- manganese staining olive black
5Y 2/1 clay

black nodule (1 cm²)?

end of section 2

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GGA-6	PC-15	3+4

STATION#	OBSERVER
	Gita

Samples | Graphic Representation | Smear Slid | Deformatio

150 indurated clasts
1 cm wide
150-158 deformed black stains
160 - 183 Olive gray clay 5Y 4/1
STRUCTURELESS large clast
Forams common
same lighter gray/green - clasts, ? bioturbation
183-205/210 darker gray with dipping layers - different lithology than 160-183
clay clast - lighter gray (3 x 2 cm.)
200
205
end of section 3
210
olive gray like 160-183
215
218-220 Red Fine sandstone pebble - rounded (2½ cm x 1½ cm) dark reddish 10R 3/4
222
222 - 232 silty gray clay N5
183 -
olive gray clay 5Y 4/1
232
graded bed sharp base
240
banded clays
234-240 graded bed
240-257 olive gray clay 5Y 4/1 with hydrotroilite stains appears in place
257
subtle dipping contact
257 - 300 olive gray clay 5Y 4/1

~222 to 257 appears in place but may be undisturbed displaced unit

257 to base appears displaced

brnish clast

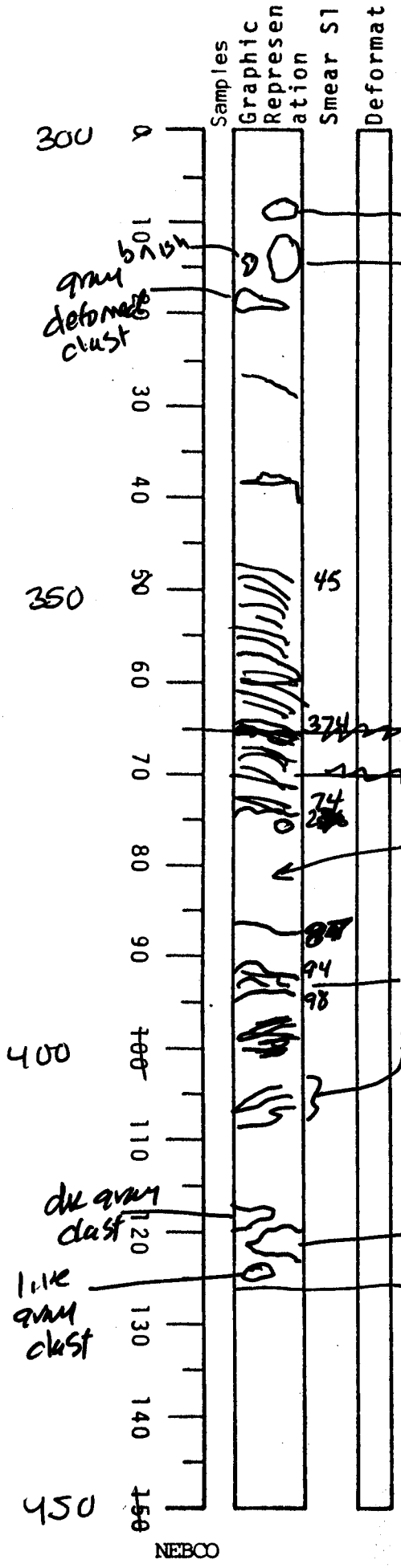
v. lite 5Y 8/1 yellowish gray clast
medium gray N5 clast
med dk gray clast N4
end of section 4

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
9 9 7 - 6	P C - 1 5	5/6

STATION#	OBSERVER
	Gita/[illegible]



300 - 325 ~~base~~ is olive gray clay w/ several clasts of variegated color & size

300 - 374 olive gray ~~#~~ clay with clasts & structures as noted

~45 to 74 series of dipping layers of variegated gray colors and thicknesses (< 1 cm each) (stacked clasts?)

74 - 87 lighter olive gray clast

deformed med gray clast

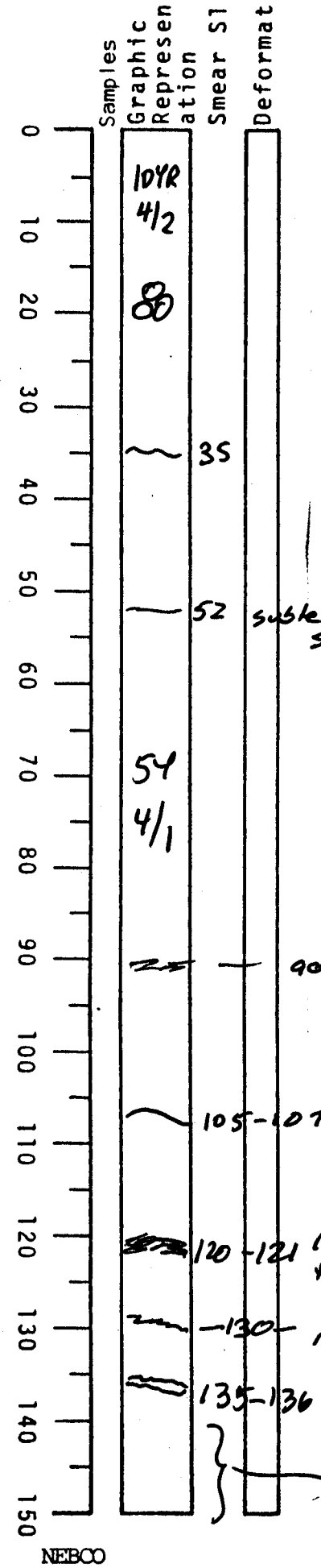
folds - thin laminae

[NOTE: whole of 300 to base is displaced MTD]

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 16	1&2

STATION#	OBSERVER
	JSD



subtle iron stains

subtle iron stains

slightly irregular contact

iron stain + some red brn clay

reddish brn crust

lighter gray slightly clipping

reddish brown

0- ~35

dark yellowish brn foram-rich calc clay

Some MnOx stained zones

11-13 18-20

burrowed

Iron stains, irregular, blotchy

33-37 - NO rusty crust

~35 to 105

olive gray clay 5Y 4/1

forams common

slight burrows

105 - 150

generally more brownish gray approaching 5YR 4/1

Subtle zones colored dk reddish brown 10 YR 3/4 (brick red)

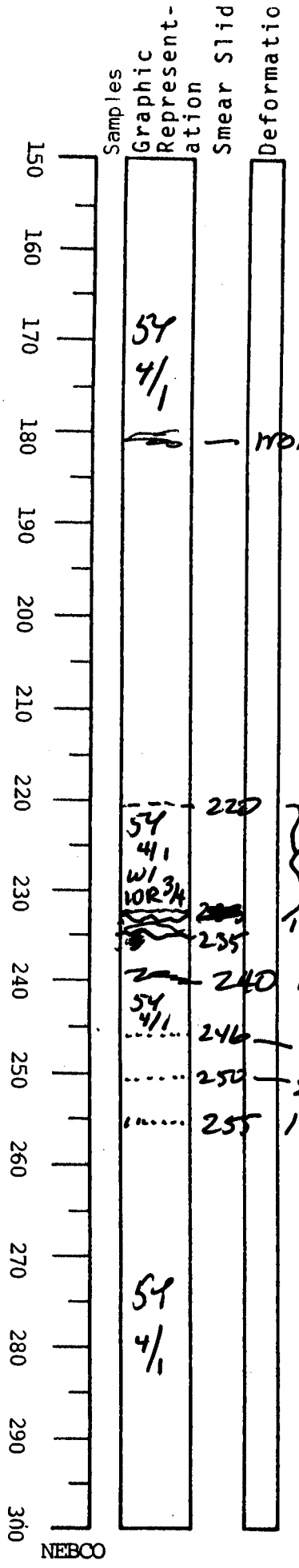
by inclux & exotic

Last 137 - base reddish clay

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 16	3 & 4

STATION#	OBSERVER
	JED



150 - 220

olive gray clay 5Y 4/1
Slight burrows
forams common

220-235

olive gray clay
subtle dk reddish brown (10 R 3/4)
cast from exotic reddish sediment

240 - 246 olive gray clay

246 - 255 smooth structerless olive gray clay with fine st lams - may be graded bed(s)

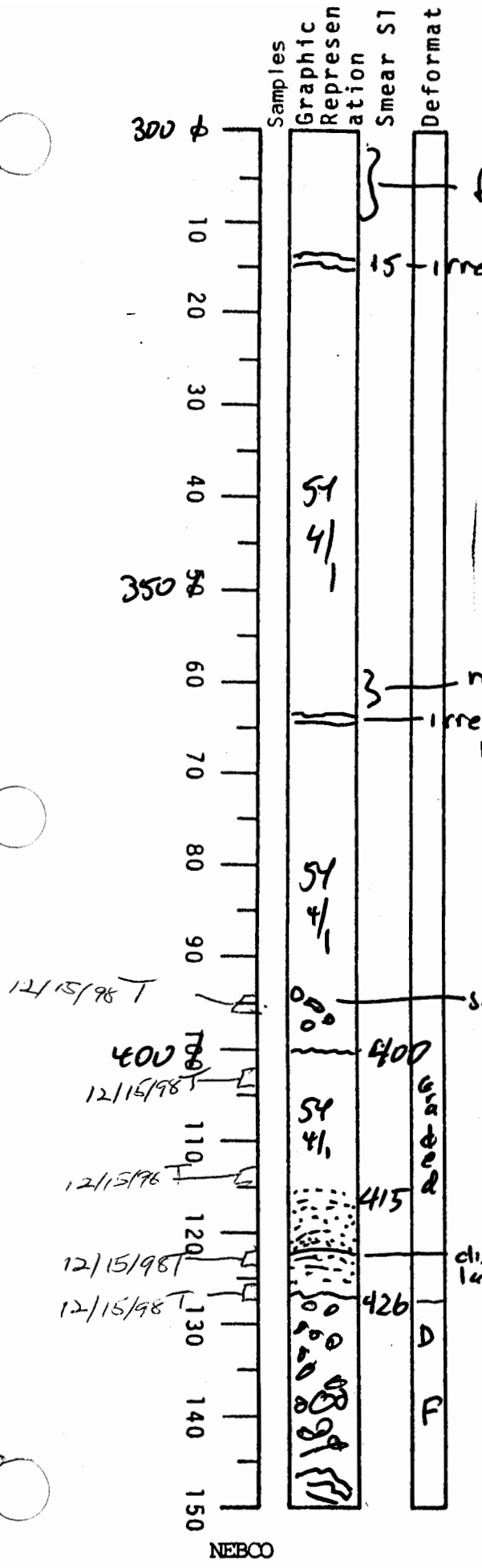
255 - 300

Olive gray clay 5Y 4/1 burrowed
forams common

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 16	5/6

STATION#	OBSERVER
	JRD



0 ~ 400 olive gray clay 5Y 4/1 slight to moderate burrows

some influxes of exotic dk reddish bn 10R3/4 beds as noted

400 - ~415 smooth olive mud top of graded unit grades into thin <1mm sl laminae by 415

415 to ~426 numerous interbedded silt and mud laminae <1mm thick lower part of graded bed

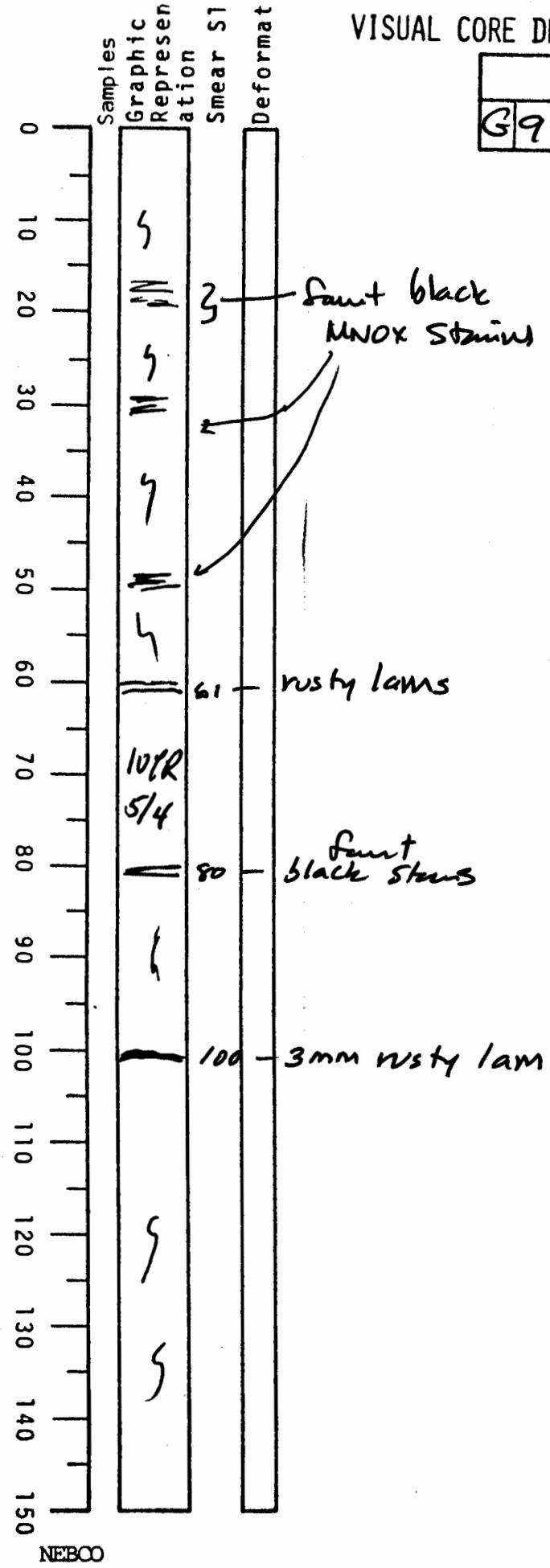
426 - 446 appears to be zone of mud clasts in gray clay small - 1-2 mm near top larger 0.5-1 cm, rounded deformed 435-445 deformed clay 445-base

debris flow ↓

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 17	1 of 2

STATION#	OBSERVER
	JED



0 – 150

dark yellowish brn foram-rich calc clay

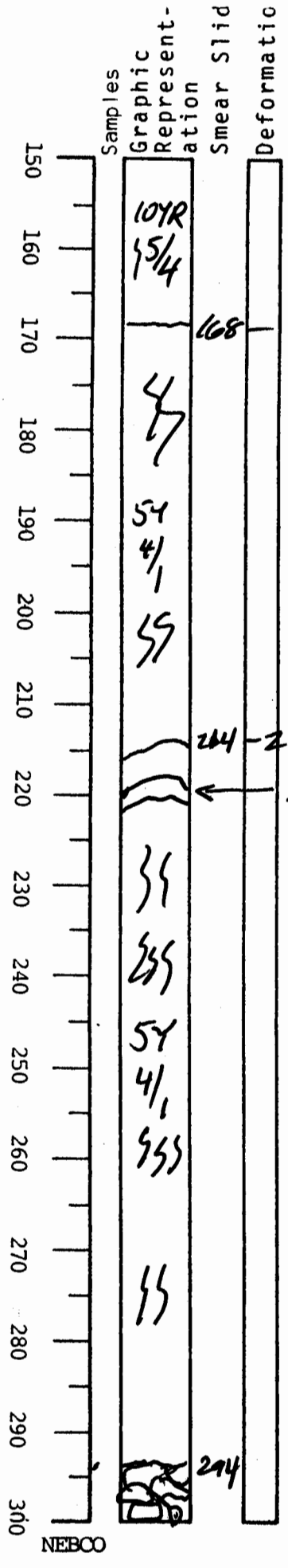
moderately burrowed

10YR 5/4

VISUAL CORE DESCRIPTION

LOCATOR									SAMPLE NO.				SEC.
89	7	-	6						PC		1	7	3&4

STATION#					OBSERVER
					FED



150 - 168
dk yellowish brn foram calc clay like 0-150

168 - 219 olive gray clay highly burrowed forams common

264 - 219 unburrowed olive gray

gray 5YR 4/1

219-220 brownish cast layer slightly dipping - unburrowed

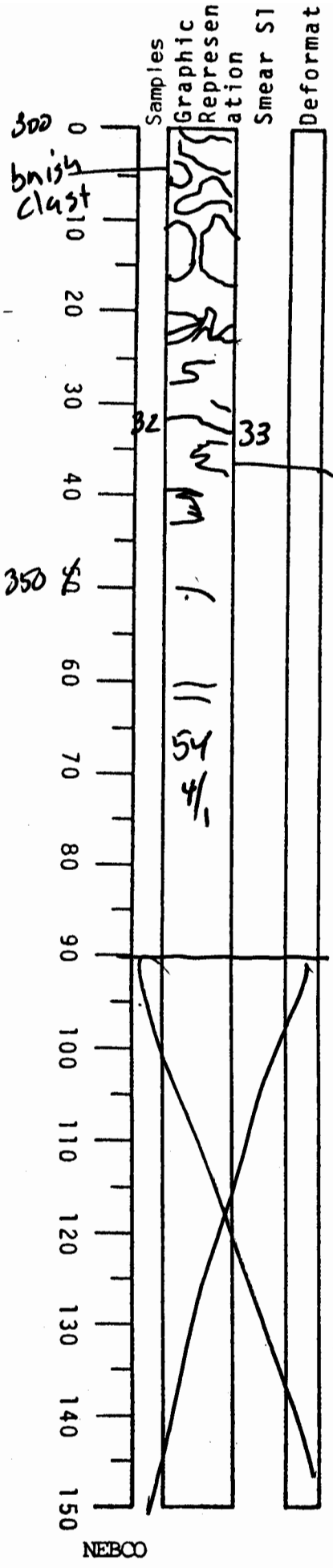
220 - 294
olive gray clay
forams common
moderately burrowed
except highly burrowed
230-260

294 - 300 appears to be mud clasts of various gray shades deformed

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
69A7-6	PC 17	5 3/6

STATION#	OBSERVER
	JED



300-332 deformed large mud clasts of various gray shades belo 20 flowage and folding

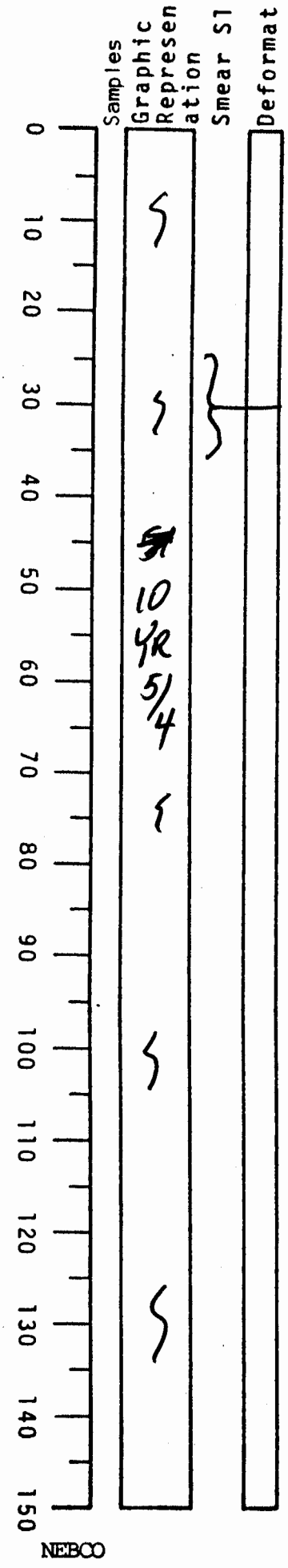
332 - 390 olive gray clay with darker gray burros ~~and~~ or stains that appear to show flowage and deformation

This interval may be a large clast(s)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
89 7 – 6	PC 18	1 & 2

STATION#	OBSERVER
	JSD



0-150 (201)

25-35
faint black 10YR 5/4 dark yellowish brn
MnOx stains
foram-rich calc clay

10 YR 5/4

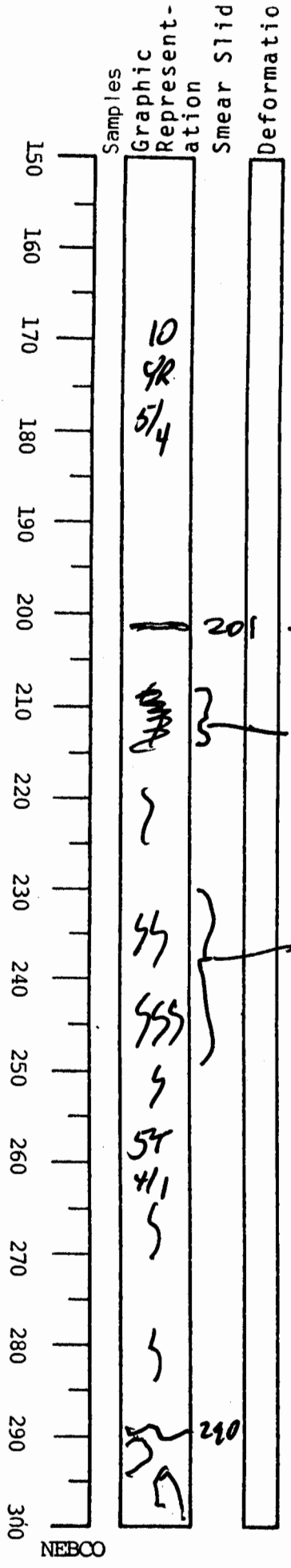
Slight to light to moderate burrowed

more brn in top ~~top~~ 40 cm then gets lighter and more gray below

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 18	3&4

STATION#	OBSERVER
	JED



150-201
Same as 0-150

201 faint rust lamina (rusty crust?)

208-213 bnish cast from the brick colored sediment

most intense burrows

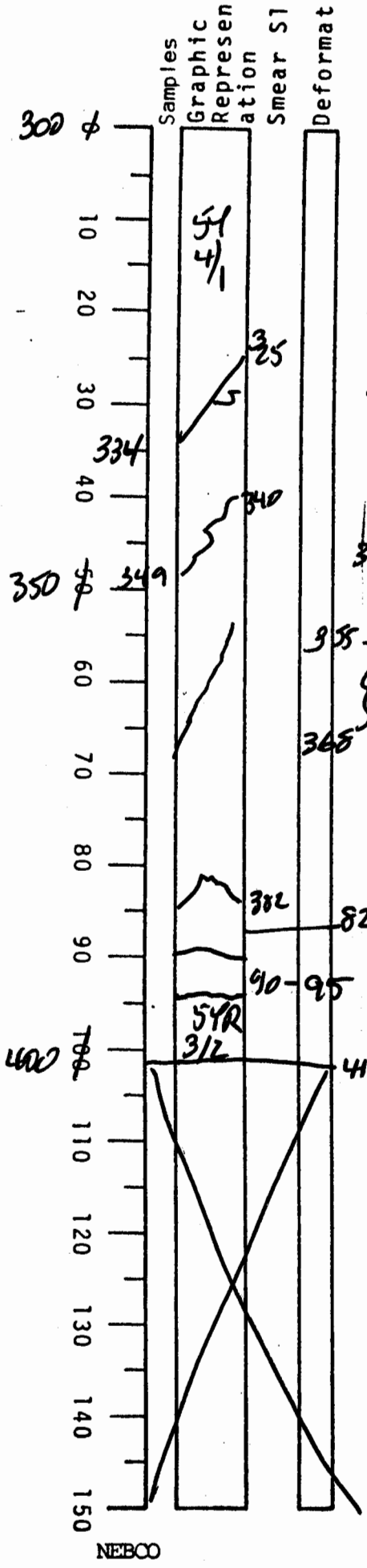
201-290 olive gray clay forams common moderate to intense burrowing appears to be in place to 290 — MTD below

290-300 appears to be part of disturbed section below — mud clasts? of various gray shades

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 18	5

STATION#	OBSERVER
	JED



325-334 steeply dipping fault or glide plane

340-49 dipping deformed black stain

355-368 subtle dipping fault?

382-90 large angular brush clast grayish brn 5YR 3/2

90-95 slightly lighter clast? grayish brn 5YR 3/2

412 base of core

300-382 cm olive gray clay 5Y 4/1 appears to be displaced blocks only no strong deformation seen except glide planes as noted

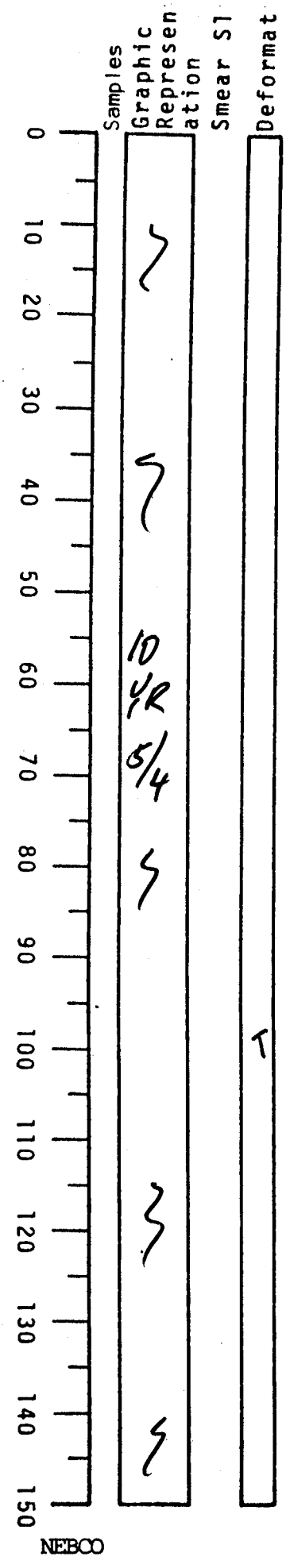
95-412 grayish brn clay 5YR 3/2

[NOTE: 290 TO BASE APPEARS TO BE MTD]

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 19	1&2

STATION#	OBSERVER
	JED



0 – 150

dark yellowish brown foram-rich calc clay

slightly burrowed

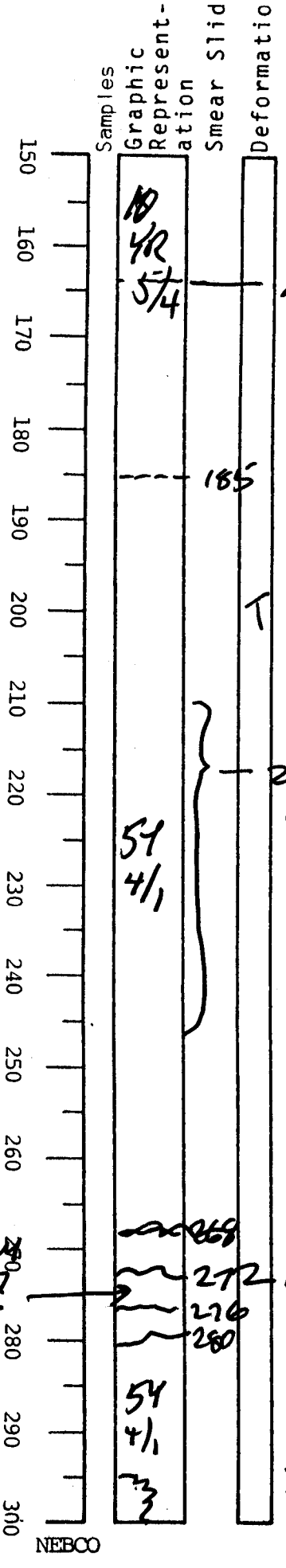
darker bn in top 20cm

rare faint ~~blk~~ black Mn ox & Fe stains

VISUAL CORE DESCRIPTION PC 19

LOCATOR	SAMPLE NO	SEC.
G97-6	PC [illegible]	3

STATION#	OBSERVER
	JPD



164 5mm rusty Fe laminae

150- ~185
dk yellowish brn clay as in 0-150 persists down to about 185. grades from brn to olive gray 180-190.

Check forams - similar to PC-20 boundary & poss. P/Pt boundary?

210-245 highly burrowed

185- ~~210~~ 272
olive gray clay
forams common
moderate to intense burros
seems in place to at least 268 (see belo)

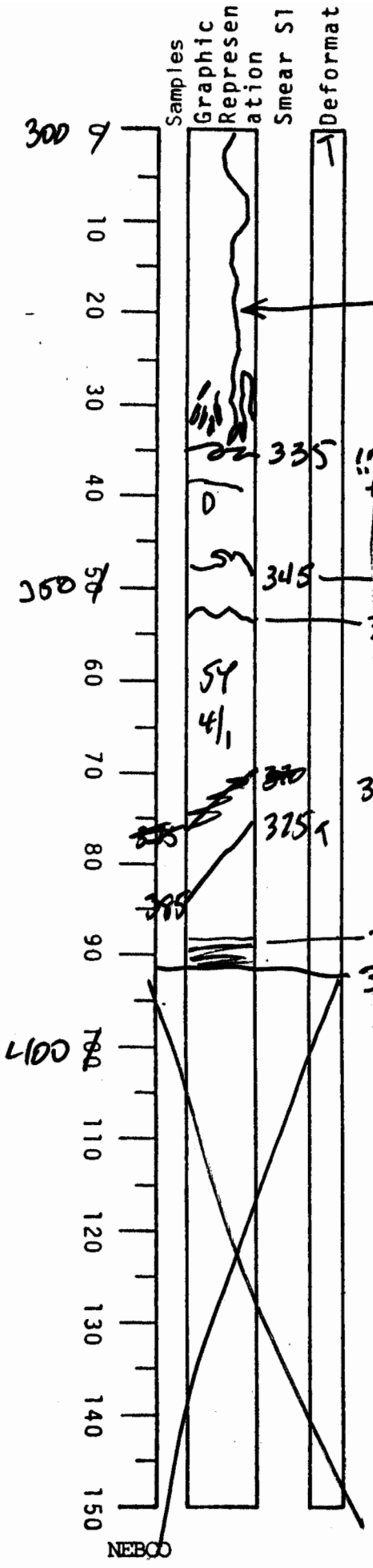
268-300
Somewhere around 268 is top of MTD disturbed unit (see sect. 5)

subtle irregular contacts suggest clast boundaries?)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
69 7 - 6	PC 19	5&6

STATION#	OBSERVER
	JSB



Vertical olive gray injection feature

irregular "flowed" contact

flowed contact

irreg contact

375-385 steep dipping contact or layer

300-335
Olive gray 5Y 4/1 disturbed clay

322-335
olive black 5Y 2/1 clast(?)

335-345 olive gray 5Y 4/1

345-353 olive black interval

353-375/85
olive gray clay 5Y 4/1

385-392 olive gray clay

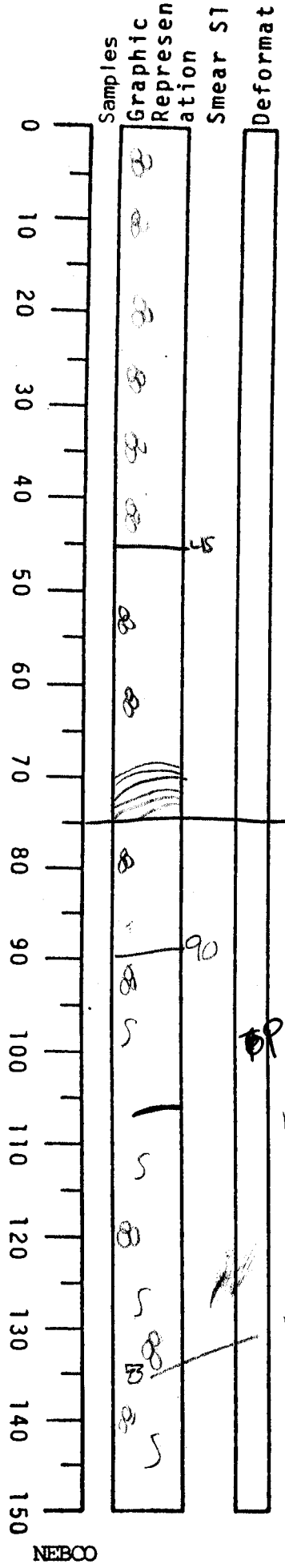
387-392 numerous black laminae or color bands <1mm thick horizontal

Note: This section shows ~~vertical~~ thin vertical cracks internally look like vertical shear fractures (see working half)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-20	1+2

STATION#	OBSERVER
	Rita



0-45 dark yellowish brown 10YR 4/2 clay
first 15 cm. very soupy
abundant forams, no structures
37-44 - mg. staining - moderate

45-153
Clay - variable color from olive gray 5Y 4/1 to light olive gray 5Y 6/1
Forams abundant

70-75 lamination (2-4 mm wide)

end of section 1

90-152 moderate burrowing - some filled with dark grey clay. Variable color

100 - abundant Menardii

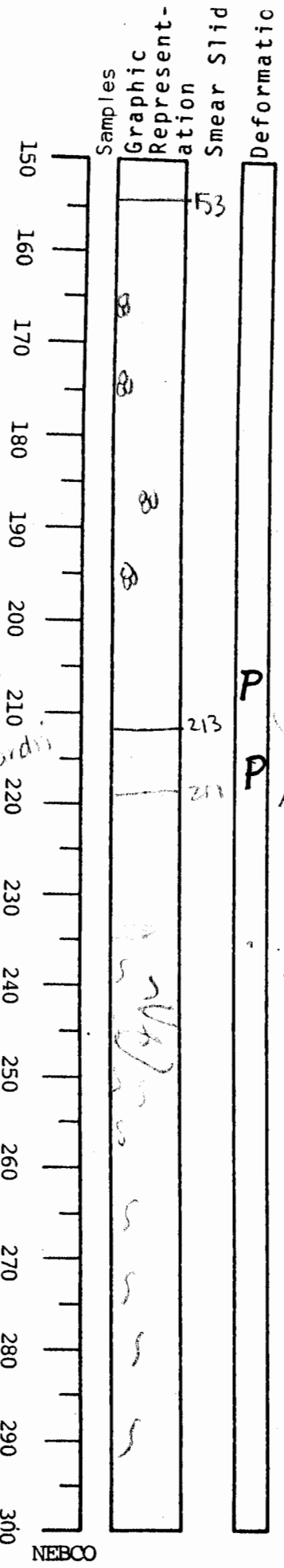
117 possible iron oxide stain (faint)

132 - large white shell (pelecypod?)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-20	3+4

STATION#	OBSERVER
	Gita



trubida rare
207 - Tubida common rare
- no menardii

end of section 2

153-213 Light olive gray clay 5Y 5/2
burrows common - many filled w/ darker gray clay
(some small mm scale to cm scale)

darker towards 210

Foram common

poss H/P
gradational contact - between olive gray & gray clay
- abundant 80's dominant in CF
207 - Tubida rare
- no menardii
- rare truncatulanoides
217 - rare 80 in CF lack of tubida & truncats & menardii
230 - faint dark (mm) staining

217-411
olive gray 5Y 4/1 clay
moderately burrowed - in general

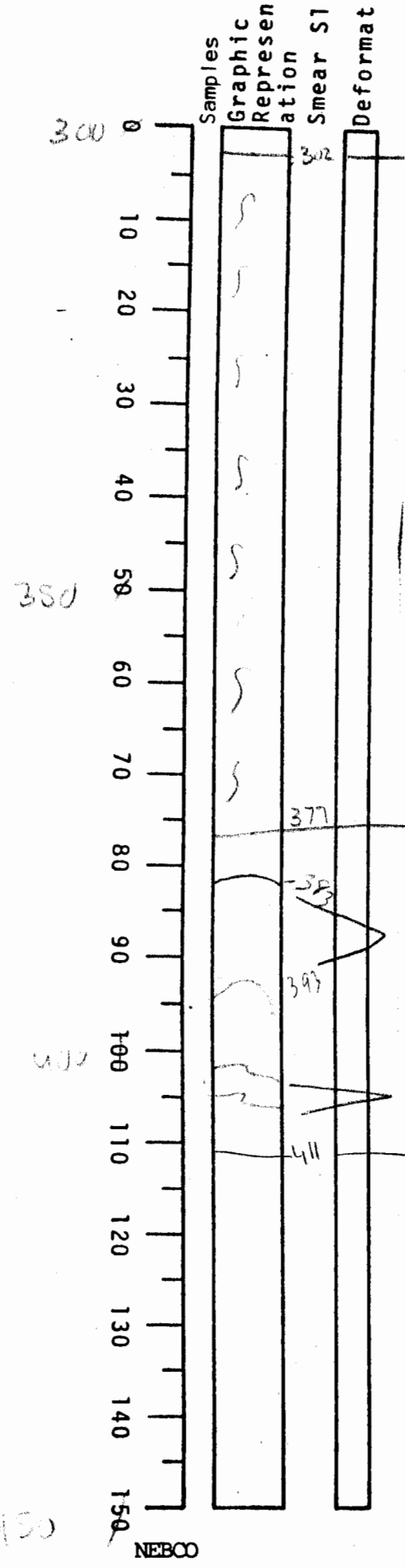
230-260 extensively burrowed - irregularly shaped
distinct burrows of dk olive gray clay
1 cm - 8 cm horizontal size burrows

> 260 cm - 275 Many fewer distinct burrows

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-20	5/6

STATION#	OBSERVER
	Gita



302 — end of section 4

All of sect

377 — end of section 5

382 - 393 darker gray clay - olive gray 5Y 3/2

393

403-405 - same color as 382-393

411 — end of section 6

Entire core appears to be a hemipelagic sequence in situ with no debris flow clasts

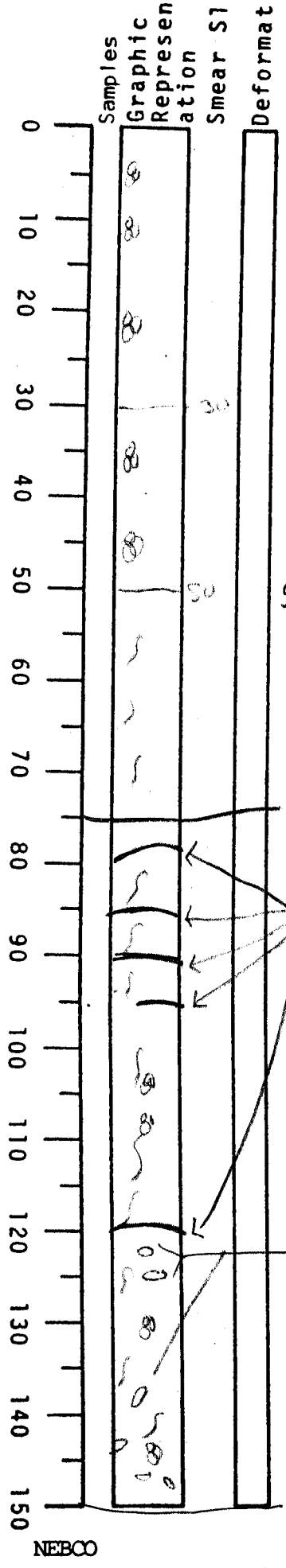
VISUAL CORE DESCRIPTION

1 of 3

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-21	1+2

STATION#	OBSERVER
	Gita

RC?



0-50

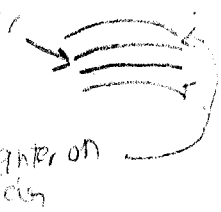
dark yellowish brown clay
10 YR 4/2
extremely unconsolidated (soupy) at top
Foram rich
31-32 manganese oxide staining
35-50 weak mg oxide staining

gradational contact

50-200 light olive gray 5Y 5/2
moderately burrowed (1/2 cm upto 1 cm x 2 cm)
oblong shape - randomly oriented
some filled w/ darker gray clay
Forams common

end of section 1

Iron oxide bands - darker in center gray
most distinct at 120
- change too subtle for color chart
1 cm. wide



burrows

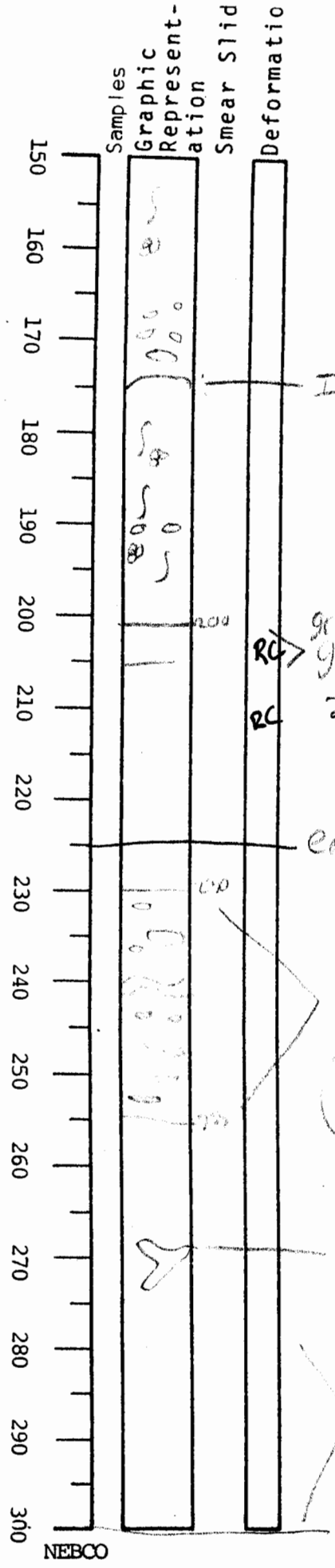
end of section 2

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-21	3 of 4

STATION#	OBSERVER
	Gita



Samples | Graphic Representation | Smear Slid | Deformatio

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

Iron oxide stain (½ cm wide)

200

gray shell fragment at 200

RC > gradational contact

RC 200 – 408 (cm) olive gray 5Y 4/1 clay
grades to lighter olive gray gradually towards 300.
moderately to extensively burrowed
(moderate except where noted)

end of section 3
forams common

extensively burrowed
burrows filled w/ darker gray clay
not centrally oriented burrows.
(½ cm to 7cm.)

one big burrow

mottled [illegible]

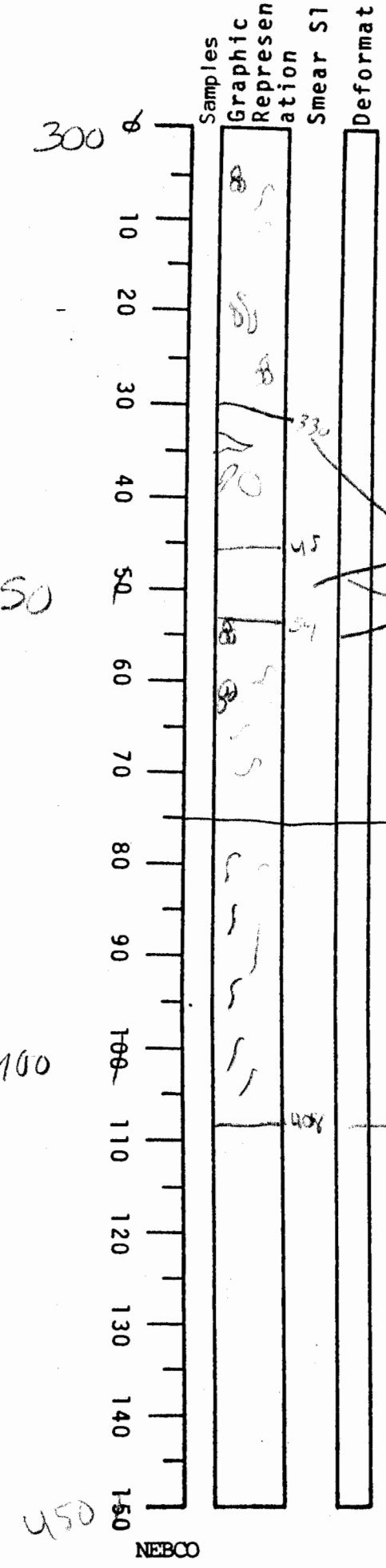
end of section 4

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
69 7-6	PC-21	5/6

STATION#	OBSERVER
	Gita



330 - 345

darker gray clay - olive gray 5Y 3/2
still moderately burrowed, but here
burrows are filled w/ lighter gray clay
gradational contact - bands of lighter
+ darker gray clays

at 354 similar to above 330
moderately burrowed
olive gray clay
5Y 4/1

end of section 5

small burrows
upto 1½ cm - randomly oriented

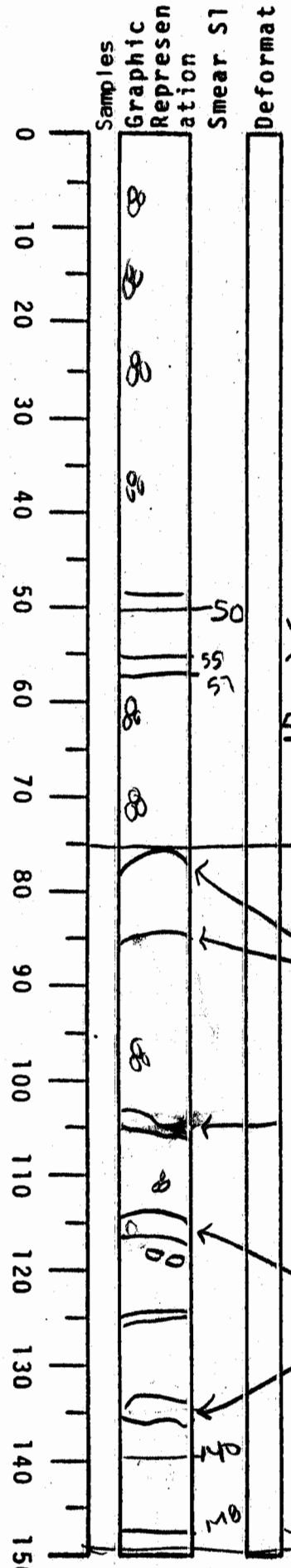
end of section 6

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G 9 7 - 6	P C - 2 2	1+2

STATION#	OBSERVER
	Gits

Olive gray 5Y 4/1



0-50 soupy Top structureless dark yellowish brown 10YR 4/2 clay Forams abundant

49-51 / 55-57 manganese staining

gradational contact

57-140 light olive gray clay 5Y 5/2 Forams abundant

end of section 1

57-105 moderate burrowing - round 1-2 cm. Filled w/ darker gray clay

Iron manganese band 1 cm. wide stiffer horizon

burrow

105-140 burrowing increases larger burrows 2-4 cm.

Iron manganese bands (not well defined) stiffer horizon

135-140 mottled appearance

brownish gray horizon 5YR 4/1

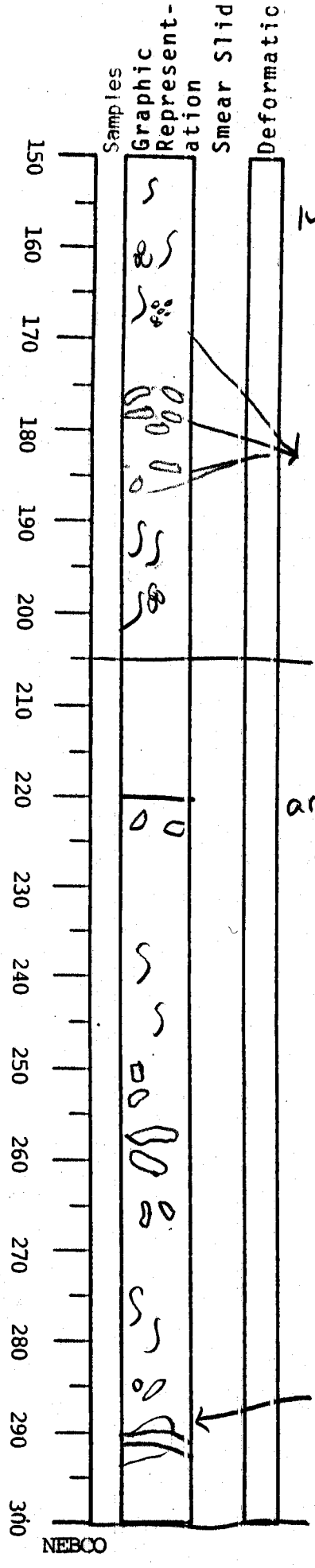
end of section 2

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
9 9 7 - 6	P C - 2 2	3+4

STATION#	OBSERVER
	GMA



140-220
olive gray 5Y 4/1 clay
extensive burrowed - burrows filled w/ darker gray clay.
intensive burrows - begin at 168
burrows From 3 mm to 4 cm (generally 3cm.)

forams common

end of section 3

ambiguous contact

220-391
olive gray 5Y 4/1 clay
abundant clay clasts
ranging in color from
- olive gray 5Y 3/2
- light olive gray 5Y 6/1
- Pale Brown 5YR 5/2
range in size from 1/2 cm to 7 cm.

distinct dark gray clast w/ burrow through it clast 4 cm. wide
Burrow 1 cm. wide
Some clasts are well defined, others are not

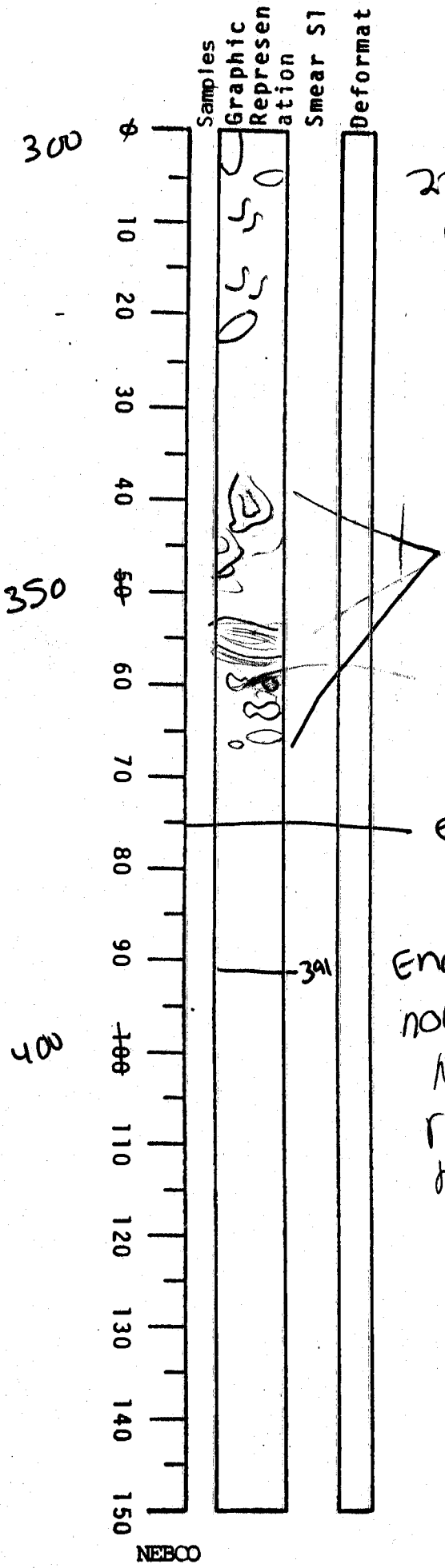
end of section 4

moderate burrowing

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-22	5+6

STATION#	OBSERVER
	Gita



220-end
clasts make up 60% of core

clasts most oblong
many horizontally oriented

end of section 5

End of section 6

note: No distinct contact between hemipelagic Mud & Chaotic clast rich mud. In other cores the contact has been sharper - why?

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
997-6	PC-23	H2

STATION#	OBSERVER
	JED

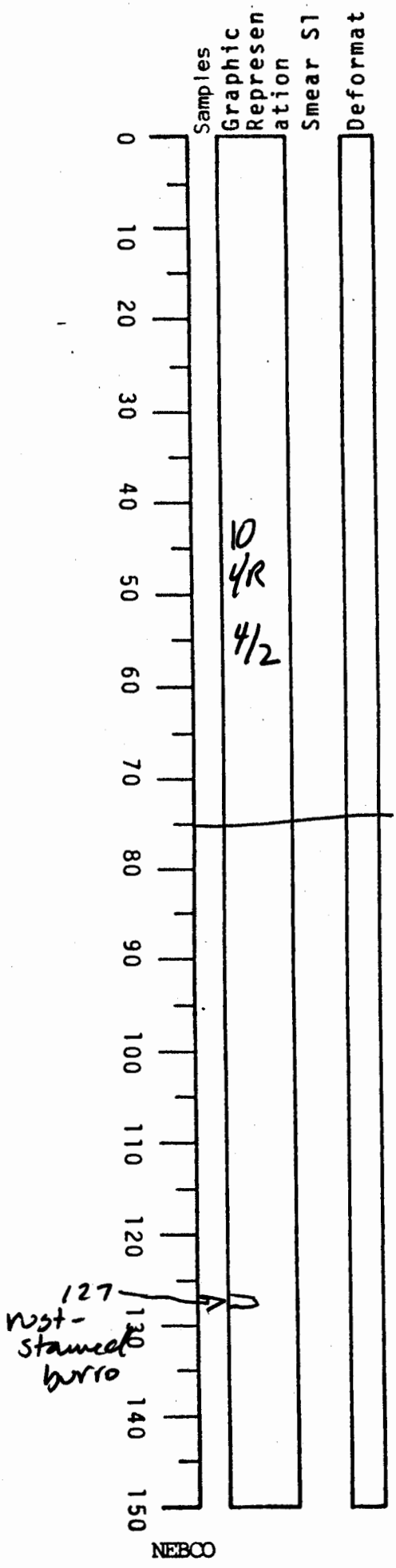
Samples | Graphic Representation | Smear S1 | Deformat

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

10 4/R 4/2

end of section 1

127 rust-stained burro



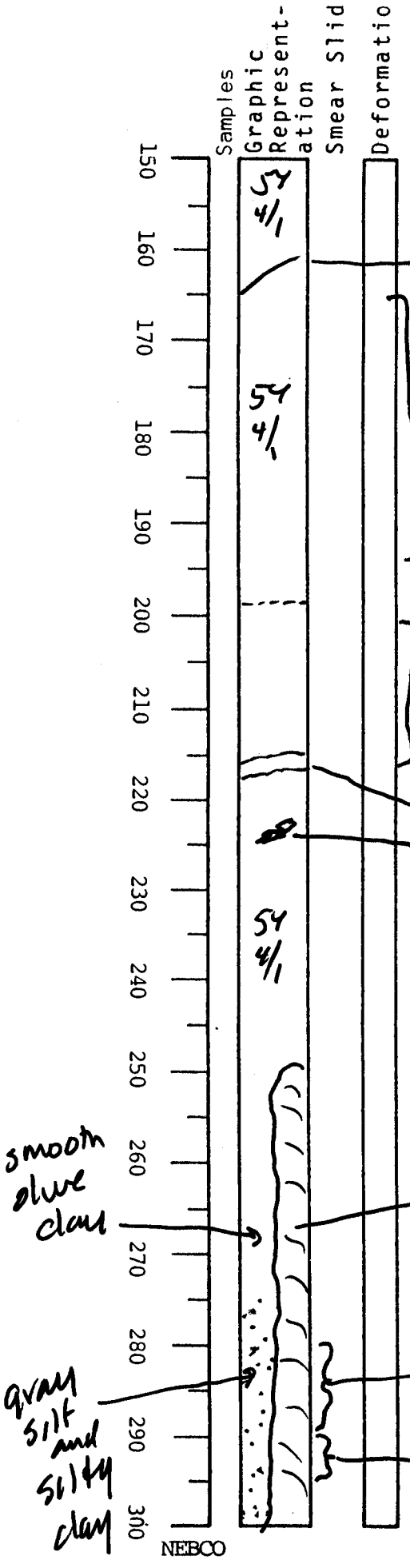
0 – ~150 dark yellowish brown calc clay with abdt forams moderately to slightly burrowed grades into olive gray clay at 150

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC - 23	3+4

STATION#	OBSERVER
	JSD



150-160 olive gray clay - in place

160-165 faint dipping lamina — May be top of MTD below?

160-195 lighter olive gray highly burrowed interval

200-215 slightly browner olive gray clay no real evidence of disturbance burrowed

215 possible dipping contact

215-216 grayish band (faint)

223-225 - possible deformed burrow

216-249 olive gray clay - scattered burrow - no obvious deformation

249 to base 300 strange vertical contact stacked laminated exotic colored clasts on right & olive gray clay grading down to silt on left [possibly coring disturbance, but probably real]

smooth olive clay

color predominately pale brown 5YR 5/2 gray laminae in between

gray silt and silty clay

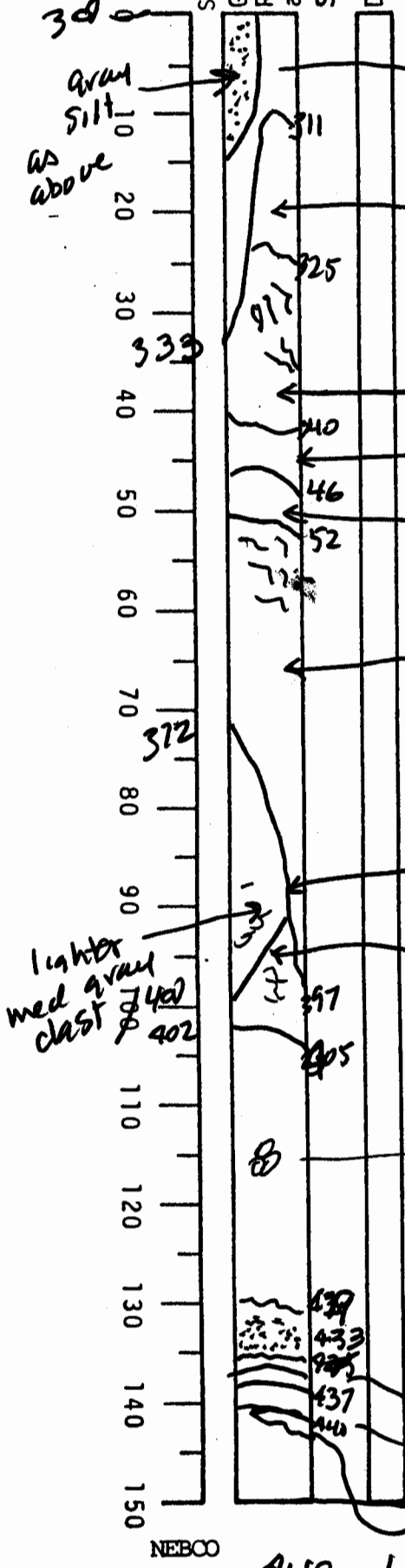
280-290 moderate brown 5YR 4/4 layer

290-295, 298-299 medium gray NS clasts

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
9	9	7	-	6				P	C	-	2	3	5~~4~~6

STATION#				OBSERVER
				~~GHS~~ JED



gray silt as above

moderate br clast as above

311

med gray clast N5

325

333

lighter gray (still medium) clast - deformed

340

slightly darker gray (N5) clast

346

lighter gray deformed clast

352

352 to ~~372~~ 397

med gray clast deformed burros near top

372

372-390 steep dipping contact or glide plane separates clasts

lighter med gray clast

397

conjugate fault offsets burrows

402

405

med gray clast

Forams common

430

433

437

440

430-435 predominately white fine sand non-calc sharp base

light gray mud

450

darker gray mud clast

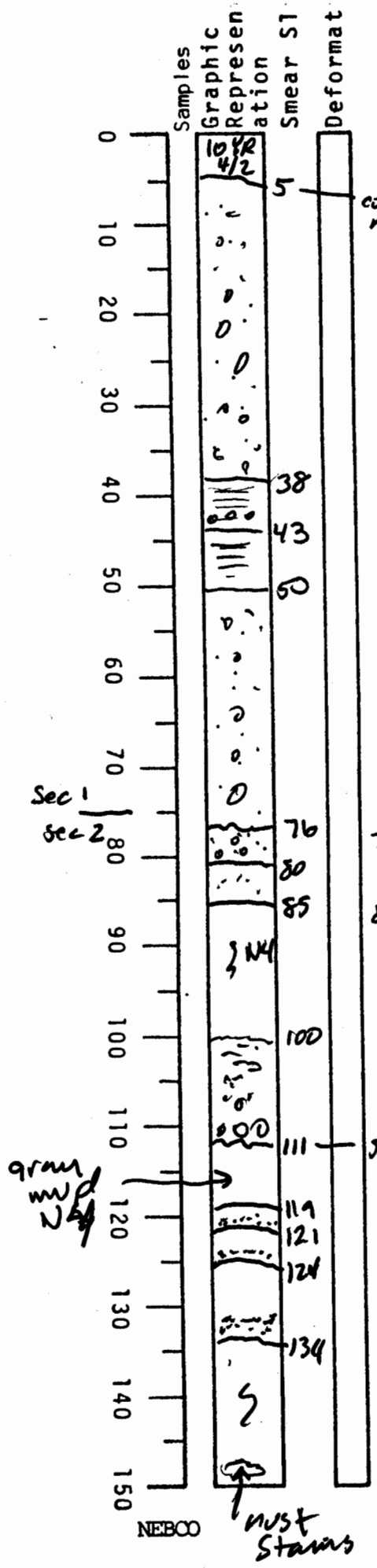
440 deformed gray mud clast

440 - base 450 moderate brown 5YR 4/4 clay (like above) laminated by gray lams

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
SG97-6	PC 24	1&2

STATION#	OBSERVER
	JED



0-5 clk yellowish brn Calc clay w/ forams — contact may be irregular disturbed, soupy

5-~38 is soupy medium dark silty gray clay (N4) which has zones of very small mud clasts - most 1mm or less but clasts up to 0.4 cm dia occur can not tell if more than one bed in this unit grading of clasts not apparent.

38-43 black hydrotroilite stained silty clay which also has at least some zones of tiny mud clasts (< 1mm) - some are greenish gray 5G 6/1 (see below)

43-50 smoother silty gray (N4) mud with irreg hydro stains - appear to be some fine mud clasts present

50-~76 soupy gray (N4) silty mud with small mud clasts throughout most <1-2mm but rarely up to 1 cm dia. Some clasts are greenish gray 5G 6/1 bed may show overall normal grading

76-80 N4 gray mud with <1mm clasts

80-85 lighter gray mud

85-~100 smoother mud gray burrowed hydro stains

100-111 graded bed silty mud w/ mud clasts up to 3mm in 109-111 cm sharp base

111 — sharp irreg base

119-121 } graded beds gray mud → silt sharp bases
121-124 }
124-134 } (sl 130-134)

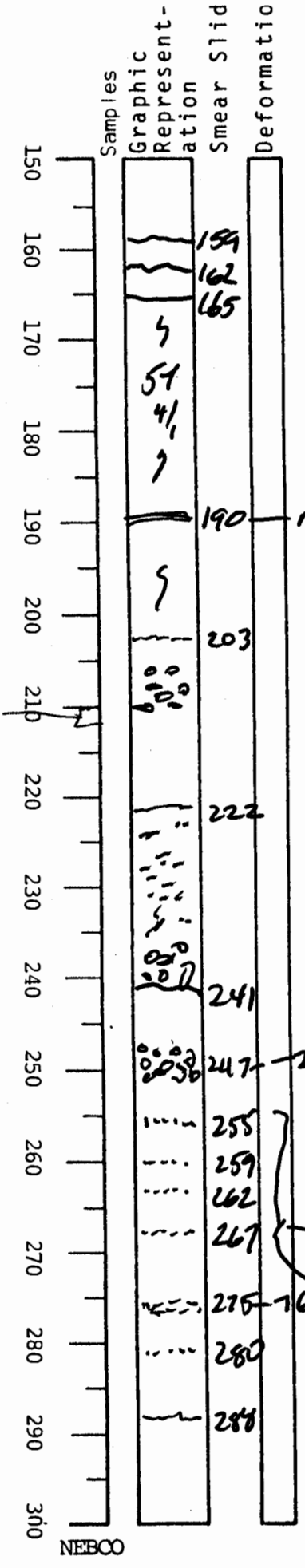
134 to 150 olive gray mud (5Y 4/1) burrowed - WST Stains near base

VISUAL CORE DESCRIPTION

3-4

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 24	4

STATION#	OBSERVER
	JED



150-159 silty gray mud rusty near base (168-169)

159-162 gray (N4) silty layer with <1mm clasts)

162-165 lighter gray silty mud with greenish gray (<1mm) clasts

165 - 203 olive gray clay 5Y 4/1 burrowed

190 rust stained lams or burrows

203 - 222 olive gray silty clay much like above but disseminated small mud clasts especially 204-210 (clasts to 4mm dia) some clasts are the greenish gray 5G 6/1 color

222-241 silty ~~clay~~ mud over silt with mud clasts <1mm to >3mm dia appears to be graded some shell frags present

247-250 laminae of mud clasts up to 3mm

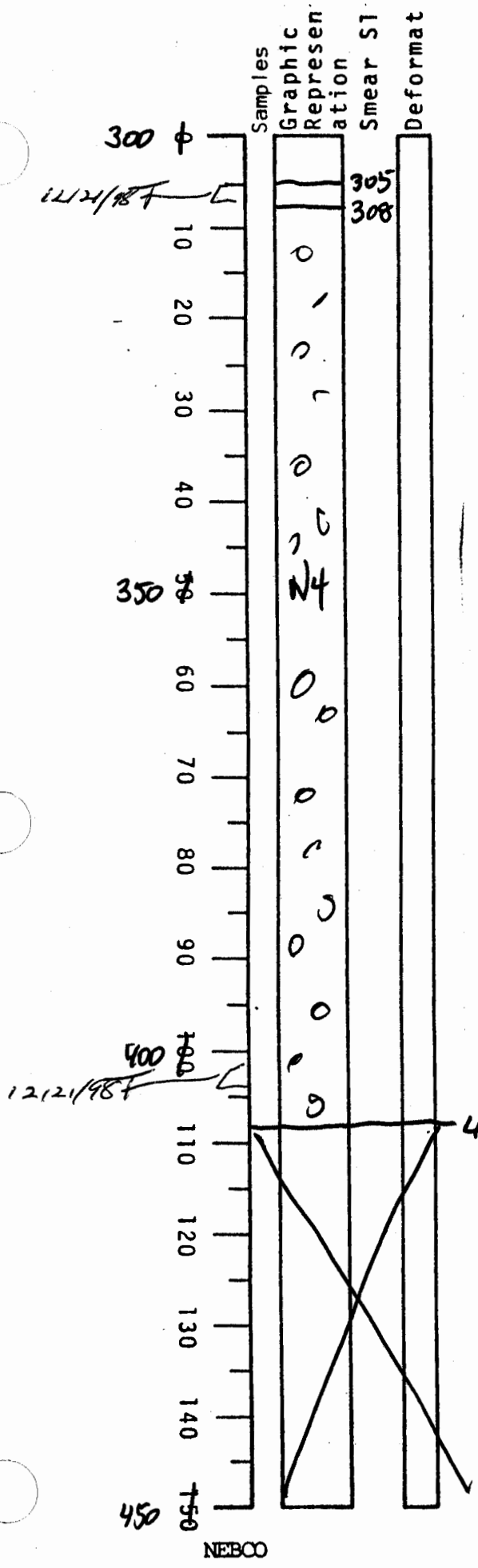
241-288 silty olive gray clay - has very silty zones as noted

288 - base less silty burrowed olive gray clay

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 24	5&6

STATION#	OBSERVER
	JED



300-305 same as 288-300

305-308 - gray clay N5

308-408 base

Medium dark gray silty clay below 10 - scattered mud clasts disseminated throughout

Most clasts are <1mm to 3mm but clasts up to >1cm are rare to common

No apparent grading and clasts of various sizes are disseminated throughout

Mud clasts are greenish gray 5G 6/1

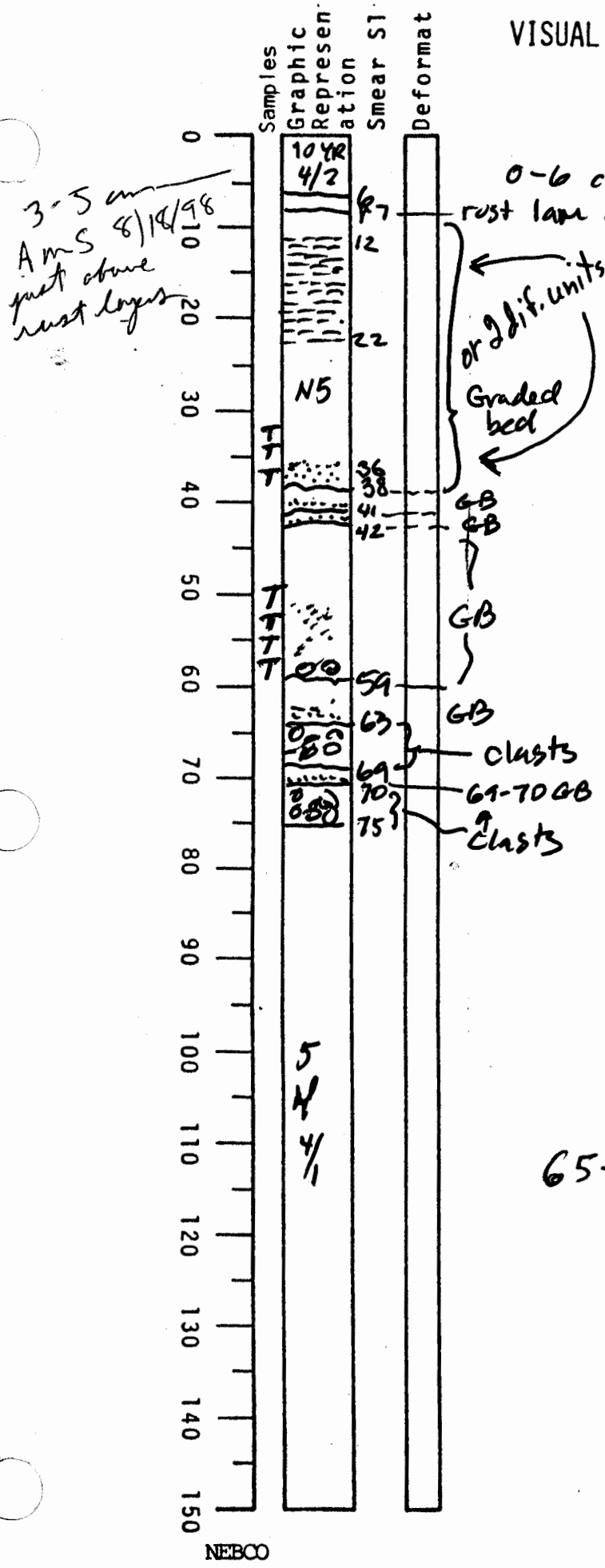
Some dark gray clasts also occur

all clast well rounded

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GR97-6	PC 25	1 of 2

STATION#	OBSERVER
	JED



3-5 cm AMS 8/14/98 just above rust layer

0-6 dk yellowish brn clay

rust lam at 7 laminated maybe silty

or 2 dif. units

7-38 graded bed?

7 to ~35 is silty medium gray clay (N5)

numerous silt laminae (<1mm) between 12 & 22

finely laminated 22-35

grades down to silt

by 35, becomes friable

36-38 - sharp base

38-41 graded bed - gray clay to silt friable

41-42 graded bed gray clay to silt sharp bot

42-59 graded bed

gray silty clay grading to silt by 48 then to fine sd at 53 to 59

fine sd contains small mud clasts within a few bed lowers

59-63 graded bed gray clay to fine sd bed

65-70 some 1/2 cm lamina of silt in clast layer

63-65 mud clasts

brnish to light gray

up to 0.5cm dia

69-70 graded bed clay → silt

70-75 clay with mud clasts up to 0.5-1cm long

75-150 olive gray silty clay

rusty stain lams

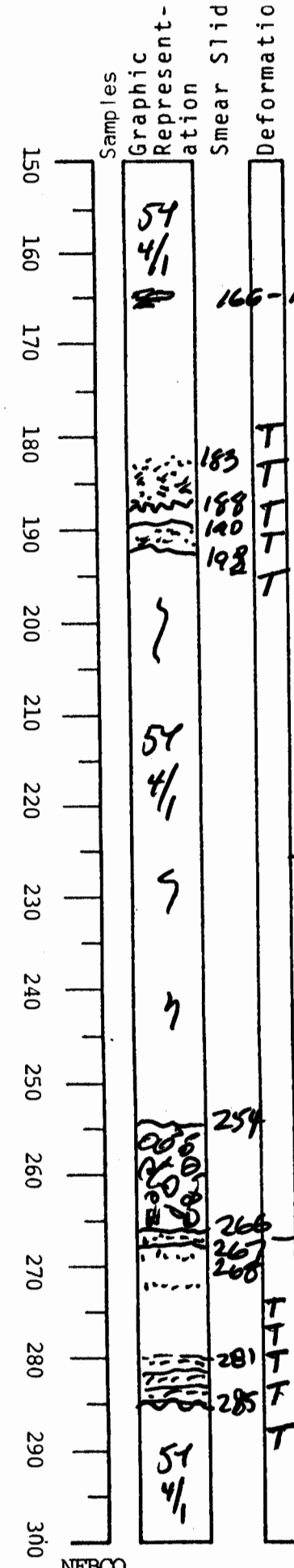
86-87 92-93

Slight burrowing

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
C 9 7 - 6	P C 2 5	3 & 4

STATION#	OBSERVER
	JTD



166-167 Sd filled burrows

150- ~183 olive gray clay slightly burrowed grades into ~~sand~~ silt about 183-

chaotic silt? or clay unit between

~183-188 graded silt to fine sd v. irregular base - top of bed not apparent

188-190 gray clay - or possible clast in

190-193 sand fine - appears burrowed

one layer from 193

See Tex samp

193-254 olive gray clay 5Y 4/1 slight burrows

End Section 3

Two imp. features - note many of the mud clast debris flow units have separate 1-2 cm sand layers within them eg 65-75 cm also many of chaotic silt units have very irreg. bases.

254-266 zone of grayish clay with exotic mud clasts dark to light gray also moderate br 5YR 3/4 (brick red) clasts

clasts ~~=~~ 2mm - 3cm

chaotic silt

266-267 gray ~~sd~~ fine sd

266 f.Sd lamina

272 f.sd lamina

"chaotic silt"

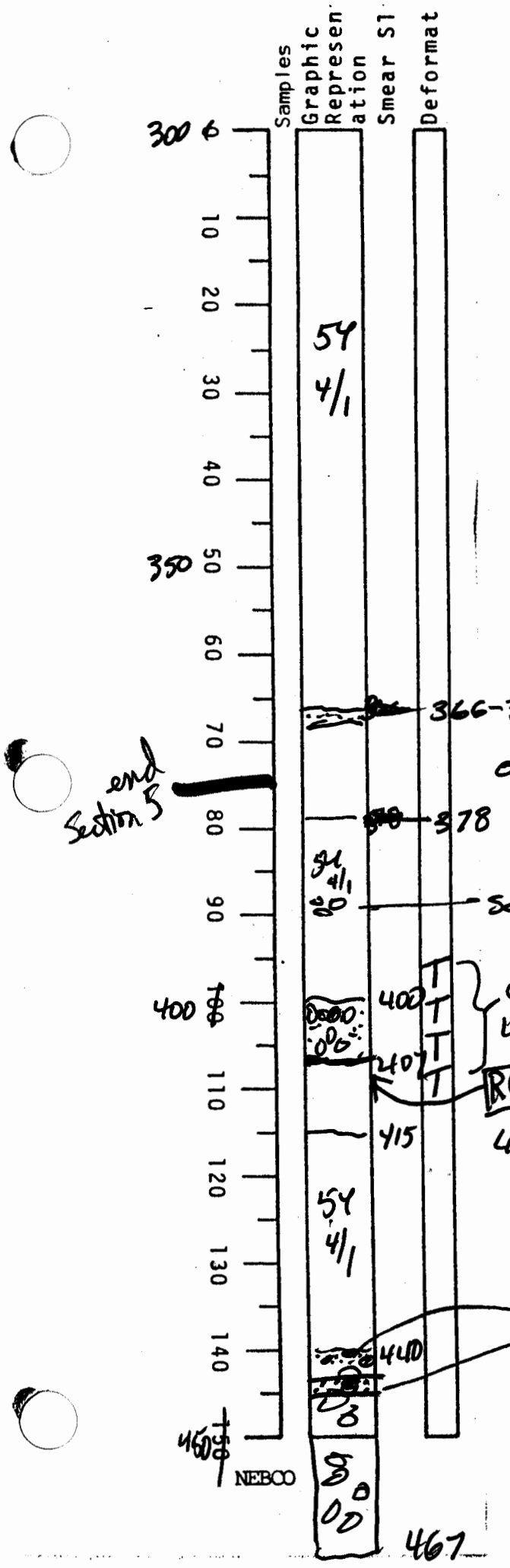
281-285 sd laminae with mud loams (<1mm) in between may be some burrowing also some lower lams truncated - Base very irregular & ripped up

267-300 olive gray clay

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
697-6	PC 25	5&6

STATION#	OBSERVER
	JED



300-366
olive gray clay
slightly burrowed

366-367 sd bed

367-378
olive gray clay with brownish cast
between 5Y 4/1 & 5YR 4/1

378-400 olive gray clay

sd filled burrows

chaotic silt

bed base not very "ripped up" - gen smooth contact

400-407 fine sd with mud clasts 1-3 mm most near top, but also @ base

RC 407-409 cm

407-415 - like 367-378
↳ appears to be hemipelagic - deepest in core

415-440 olive gray clay

also possible chaotic fine silt cap. w/ chaotic

note within clay clast unit a 1.5 cm chaotic silt bed

see note @ 235 cm ct to imp

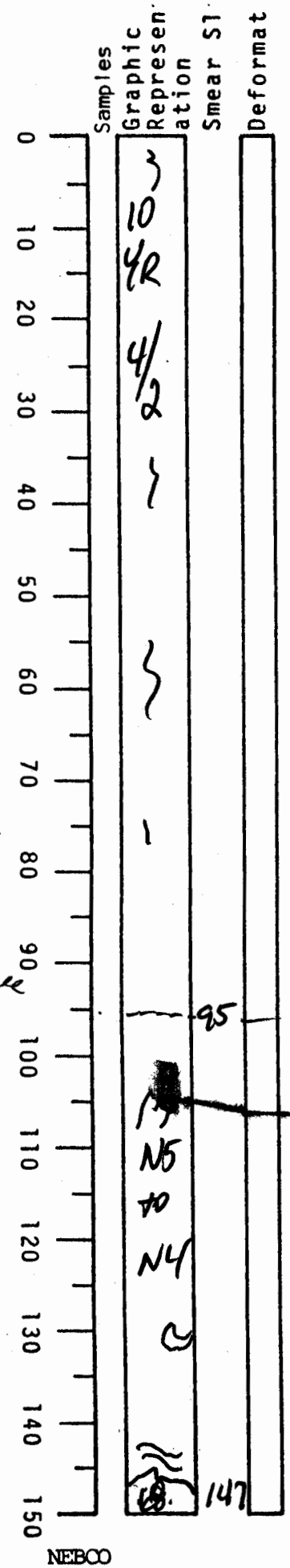
440-467 olive mud with abdt mud clasts
dk grays & browns
up to 5 cm long

END OF CORE

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-26	1/2

STATION#	OBSERVER
	JED



0-90 cm

dark yellowish br clay calc-rich foram rich burrowed

becomes more gray below 75 and grades to gray ~95

90-93 cm AMS sample 8/17/98

95 — gradational contact

flowage?

95-147

medium (N5) to medium dark (N4) gray clay

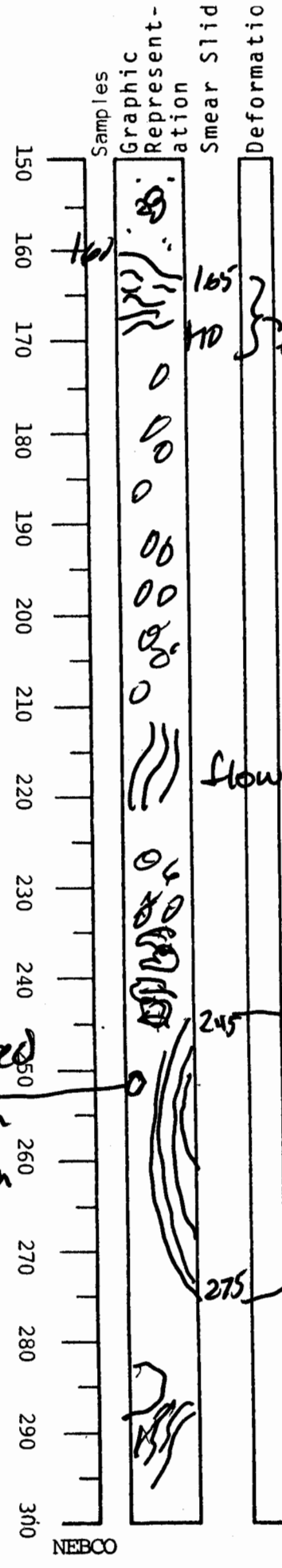
some hints of flowage and deformation - this unit may be part of MTD below

147-150 see next sect.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 26	3&4

STATION#	OBSERVER
	JTH



147-165
gray sandy foraminiferal clay looks like a flowage clast

150 to 377 is deformed and folded

190-210 deformed mud clasts & med light gray (N6) to med dk gray N4

Medium (N5) to med dark (N4) gray clays

flowage

Zones of deformed mud clasts folds & dipping flowed layers as shown

deformed flowed mud clasts

AN MTD

245-275 large fold

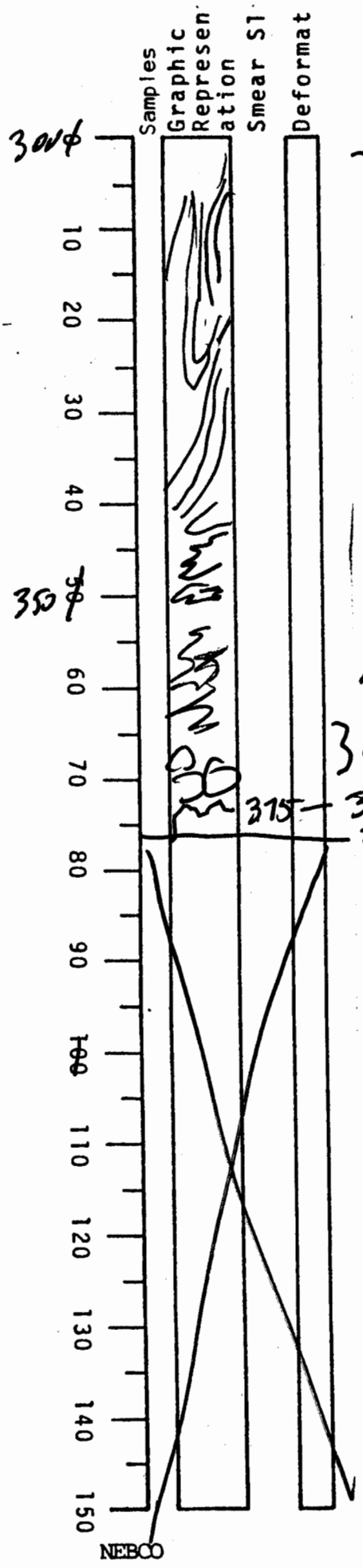
indurated clast 2.5x2cm greenish gray with sand grains & forams

flowage and large clasts

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 26	5

STATION#	OBSERVER
	JED



flowage and folding

deformed mud clasts

See previous sections

3 clasts – dk gray and brownish gray

315 – 379 light bluish gray 5B7/1 mud clast

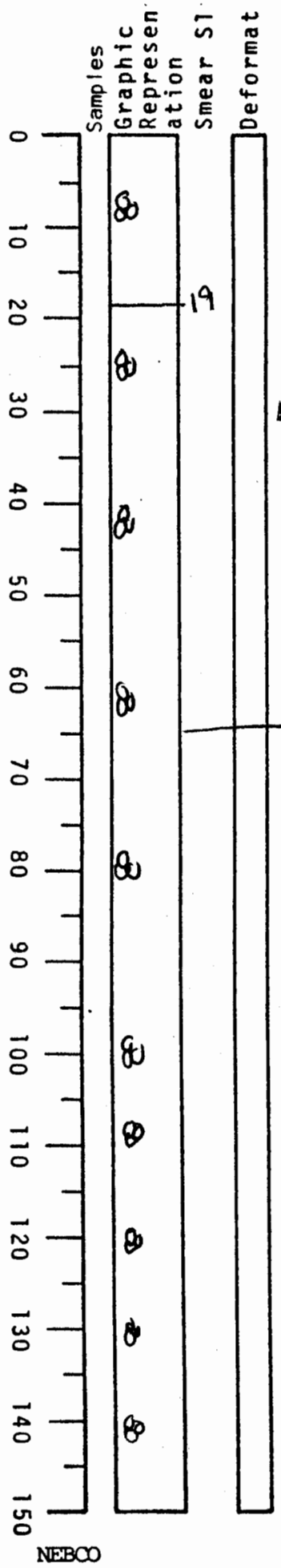
379

Highly deformed MTD

VISUAL CORE DESCRIPTION 1 of 3

LOCATOR	SAMPLE NO.	SEC.
G9 7-6	PC-27	1 of 2

STATION#	OBSERVER
	Gita



0-19 dark yellowish brown clay 10YR 4/2
soupy - structureless
Forams abundant
manganese staining 15-19

19-240 Light olive gray 5Y 5/2
Forams abundant
rare burrowing - becomes more moderate - increases towards 225
almost no burrowing 19-150.

end of section 1

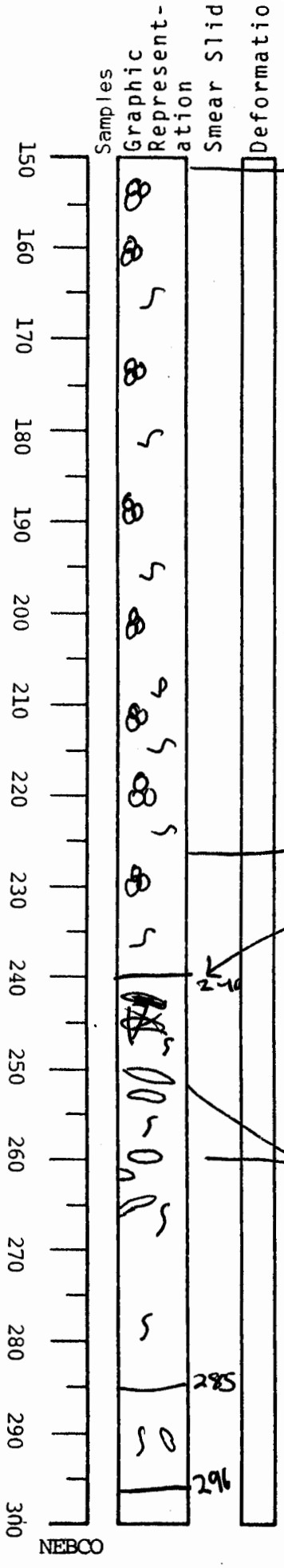
Some burrows filled w/ dark gray mud.
burrow size 1/2 cm to 3cm. (not very distinct in general).

Looks like hem. pelagic Mud.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-27	3+4

STATION#	OBSERVER
	Gita



end of Section 2

227 - end of section 3

not distinct contact

240 - 285 Light olive gray 5Y 5/2
Clay
Increased burrowing

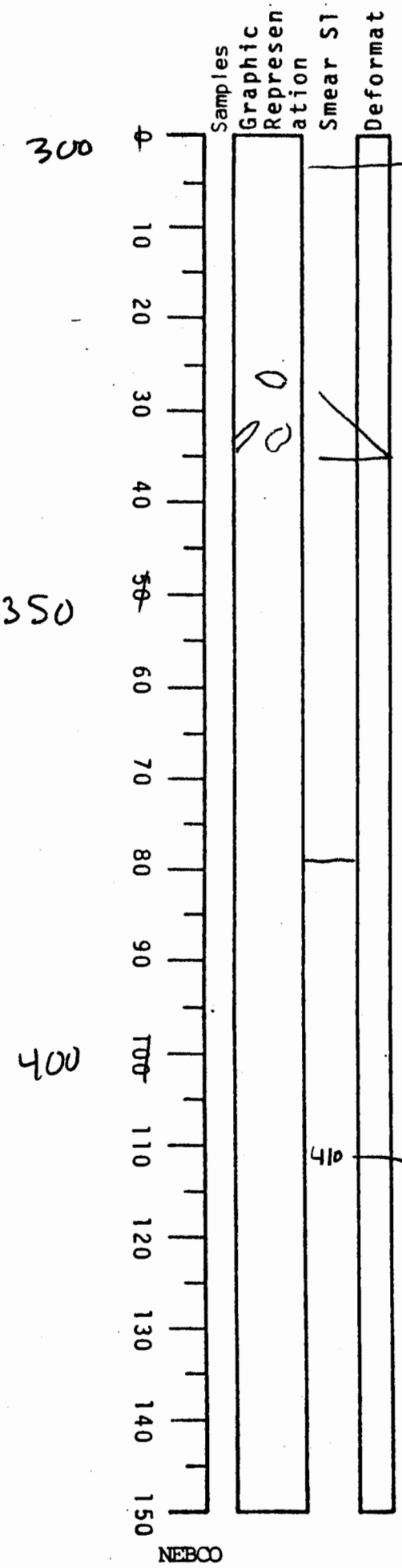
burrows 1cm - 5 cm.

285 - 296 brownish gray 5YR 4/1 clay
one large (1/2 cm x 2 cm.) burrow filled w/ lite grey clay.
gradational contact

VISUAL CORE DESCRIPTION 3 of 3

LOCATOR	SAMPLE NO.	SEC.
697-6	PC-27	5&6

STATION#	OBSERVER
	Gita



303 end of section 4

296-410

Olive gray 5Y 4/1 clay

structureless

moderate burrowing

325-335 medium-large burrows filled w/ brownish gray clay (3-4 cm)

most other burrows filled w/ dark gray clay

328 - end of section 5

no distinct burrows

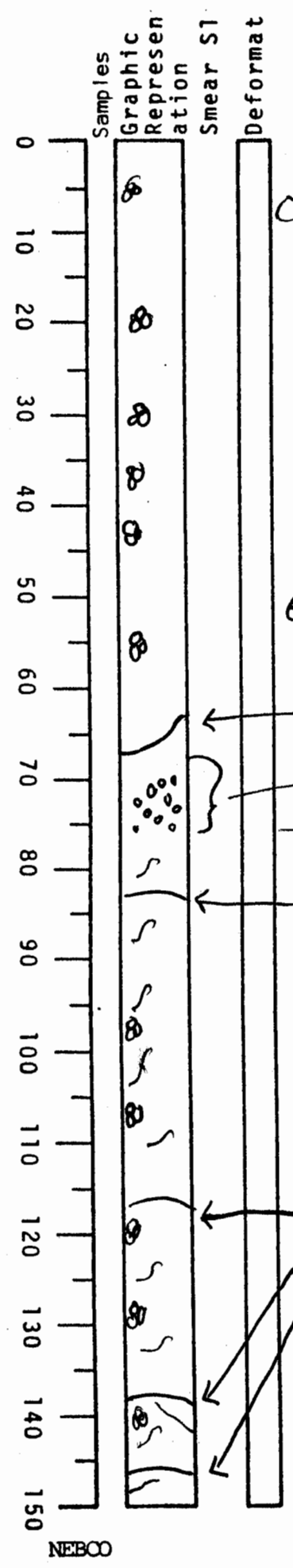
410 end of section 6 + core

In general - whole core looks like hemipelagic clay.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-28	1/2

STATION#	OBSERVER
	Gita



0-67
dark yellowish brown clay
10YR 4/2
soupy TOP
Forams abundant
STRUCTURELESS
gradational color change From yellowish brown to olive gray.

~~GRADATIONAL~~

angular Contact

intensively burrowed small 1/2 cm. burrows

- end of section

iron oxide band

67-165
light olive gray clay 5Y 5/2
abundant forams
moderate to extensively burrowed.

Faint Iron oxide band

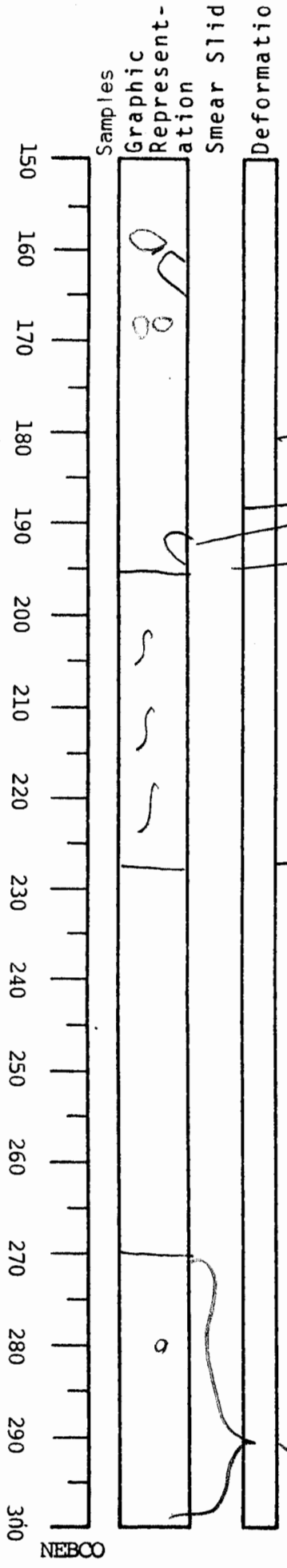
130-150 intensively burrowed. 1-2 cm. burrows ~~by~~ filled w/ darker gray clay. not very distinct.

- end of section 2

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - G	PC - 28	3+4

STATION#	OBSERVER
	Gita



150-195
subtle color change from light olive gray clay 5Y 5/2 to Brownish gray clay 5Y 4/1
- many clay clasts 1-5 cm
poss. exotic clast w/ diff. composition? but CF is the same in background and lighter clasts & amount = more abundant in apparent clay burrows ∴ appears to be burrowing

clast w/ shells

gradational contact

190-227 light olive gray clay 5Y 5/2
? intense burrowing or clasts.
appears to be burrowing filled w/ darker gray clay (not multicolored like above & below)

227 end of Section 3

227-270 ambiguous zone
burrowing > ? light olive gray clay
clasts 5Y 5/2

gradational contact — but apparent beginning of chaotic? clast

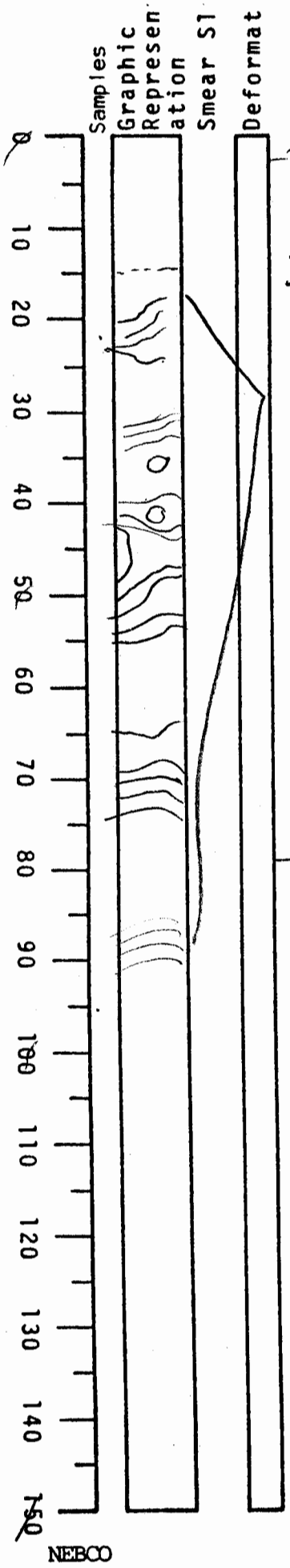
270-378 light olive gray clay 5Y 5/2
w/ abundant multi source clasts of variable shape & composition
(brownish gray 5YR 4/1)
(olive gray 5Y 4/1)

small indistinct clasts

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
697-6	PC-28	5 6

STATION#	OBSERVER
	Gita



302 end of section 4

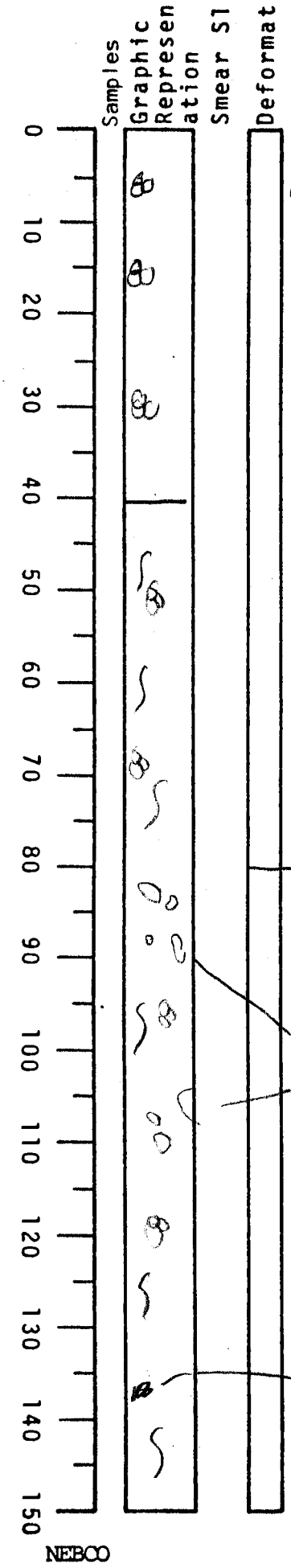
315-378 same light olive gray clay 5Y 5/2 w/ abundant multi source clay clasts
- more distinct shapes
- generally larger clasts

378 end of section 5

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-29	1+2

STATION#	OBSERVER
	GTE



0-40 dark yellowish brown 10YR 4/2 clay
structureless
soupy - unconsolidated
abundant forams

gradational contact

40-205
light olive gray clay 5Y 5/2
moderately burrowed - filled w/ darker gray clay - randomly oriented
burrows range in size from 2 mm to 3 cm
generally oval shaped and average 1½ cm

79 end of section 1

forams common to abundant
(forams decrease w/ depth)

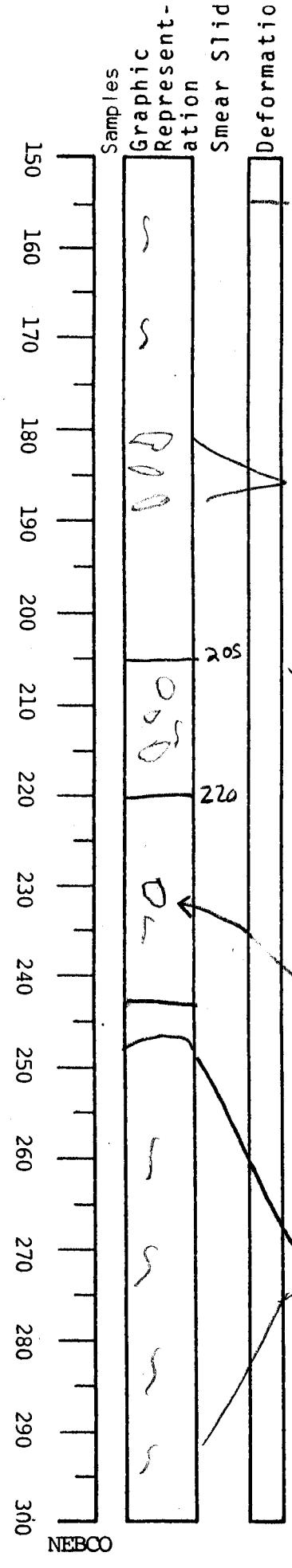
burrows

white shells

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-29	3&4

STATION#	OBSERVER
	Gita



154 end of section 2

(see notes for section 2)

burrows

205

gradational contact
brownish gray clay 5YR 4/1
subtle mottled appearance - 3 burrows filled w/ light olive gray clay

gradational contact

220

220 - 370
olive gray clay 5Y 4/1
moderately burrowed - filled w/ darker gray clay - ½ cm to 3 cm

dark yellowish brown 10YR 4/2 clay clast
4½ cm x 5 cm

244 - 247 lighter olive gray layer
247 - sharp contact

distinct burrows - well formed filled w/ darker gray clay

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-29	S+6

STATION#	OBSERVER
	Gita

Samples | Graphic Representation | Smear Sl | Deformat

300 ⌀ 10 20 30 40 50 350 60 70 80 90 100 400 110 120 130 140 150 450

end of section 4 (306)
same color as above
(olive gray clay 5Y 4/1)
but less distinct burrows Burrowing is evident
shapes are less defined

brown streaks at
326, 338 (2 cm wide)

indistinct burrow - general mottled
appearance

gradational contact

382 end of section 5

370-424
smooth homogeneous olive
gray 5Y 4/1 clay -
no burrows visible

424 end of section 6

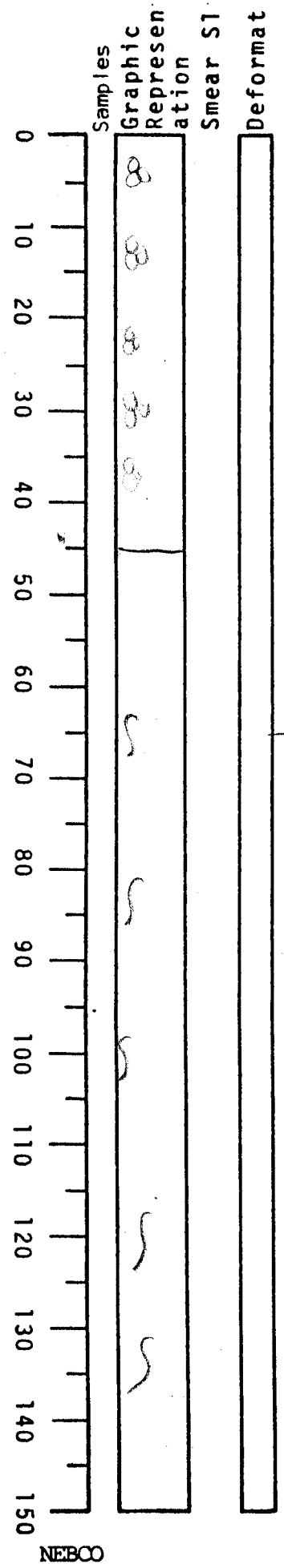
Foram pocket

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-30	1&2

STATION#	OBSERVER
	Gita



0-45 dark yellowish brown clay 10YR 4/2
Soupy - structureless
Foram rich

gradational contact

45-205 Light olive gray 5Y 5/2 clay

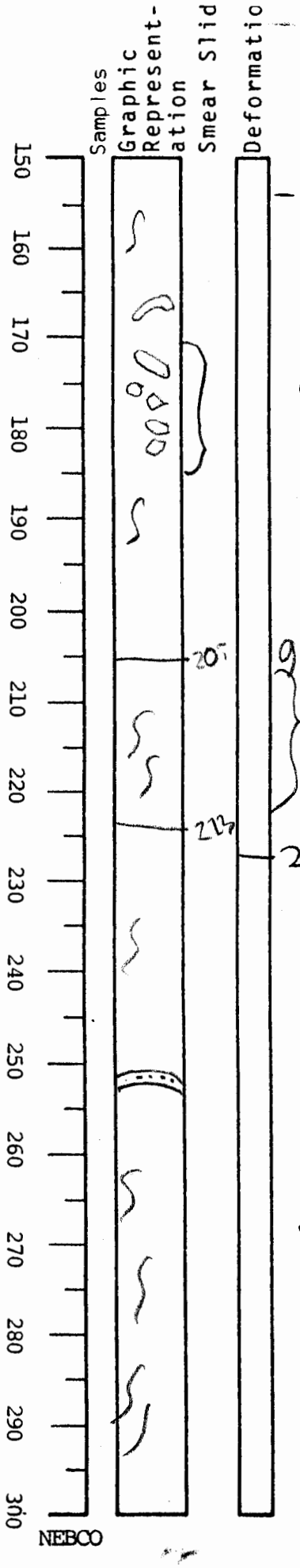
end of section 1

moderately burrowed - filled w/ darker gray clay - randomly oriented - some distinct outlines - other more vague.
upto 4 cm long.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-G	PC-30	3-4

STATION#	OBSERVER
	Gita



152 end of section 2

concentrated burrows

distinct burrows w/ green stain in between. (moderate olive brown 5Y 4/4)

gradational contact

subtle color change to brownish gray clay

moderately burrowed 5Y 4/1

gradational contact

227 end of section 3

223 - 318 olive gray 5Y 4/1 clay moderately burrowed filled w/ darker gray clay.

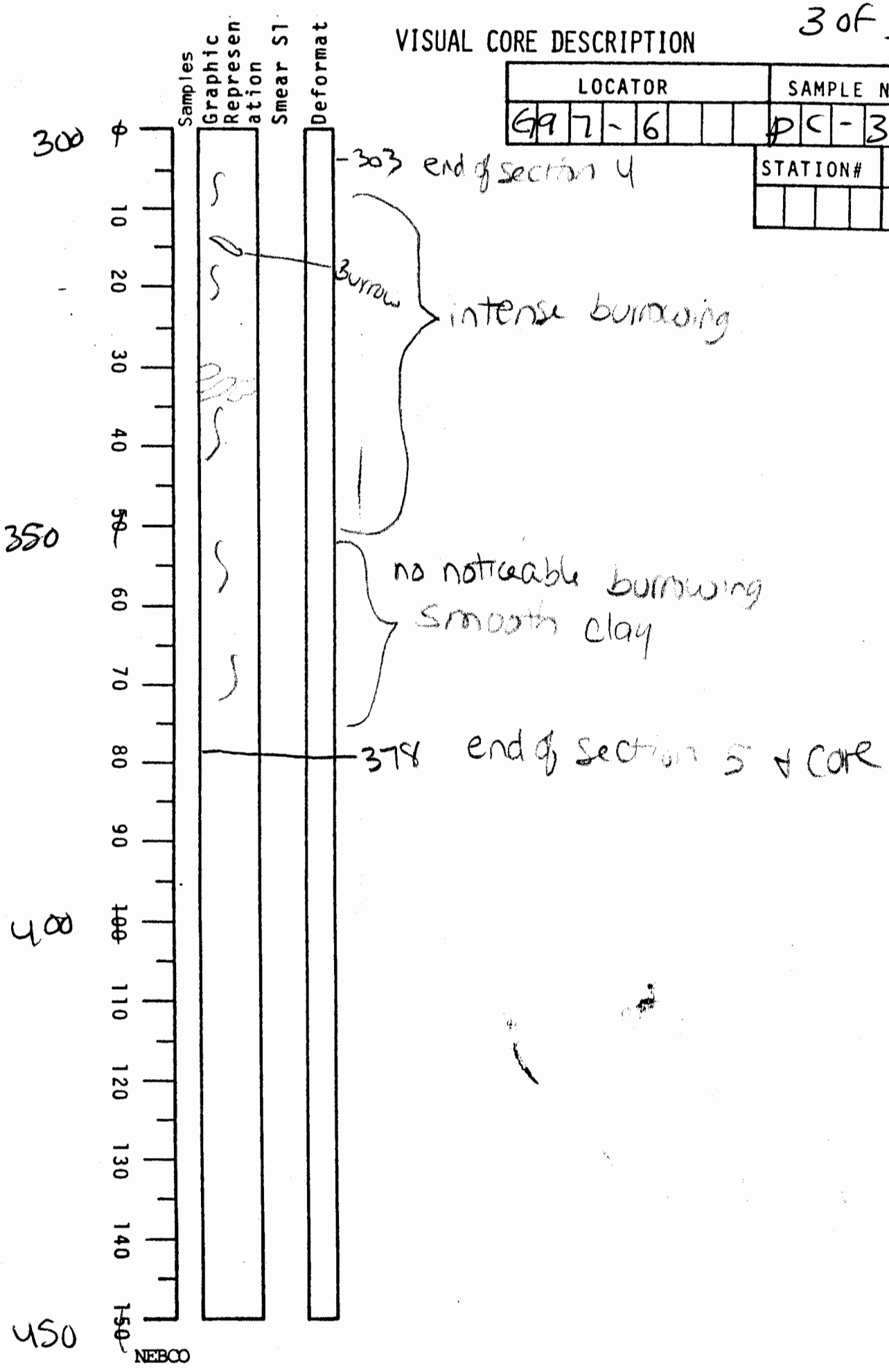
1/2 - 3cm burrows

253 - 1/2 cm wide silt bed

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7-6	PC-30	5+6

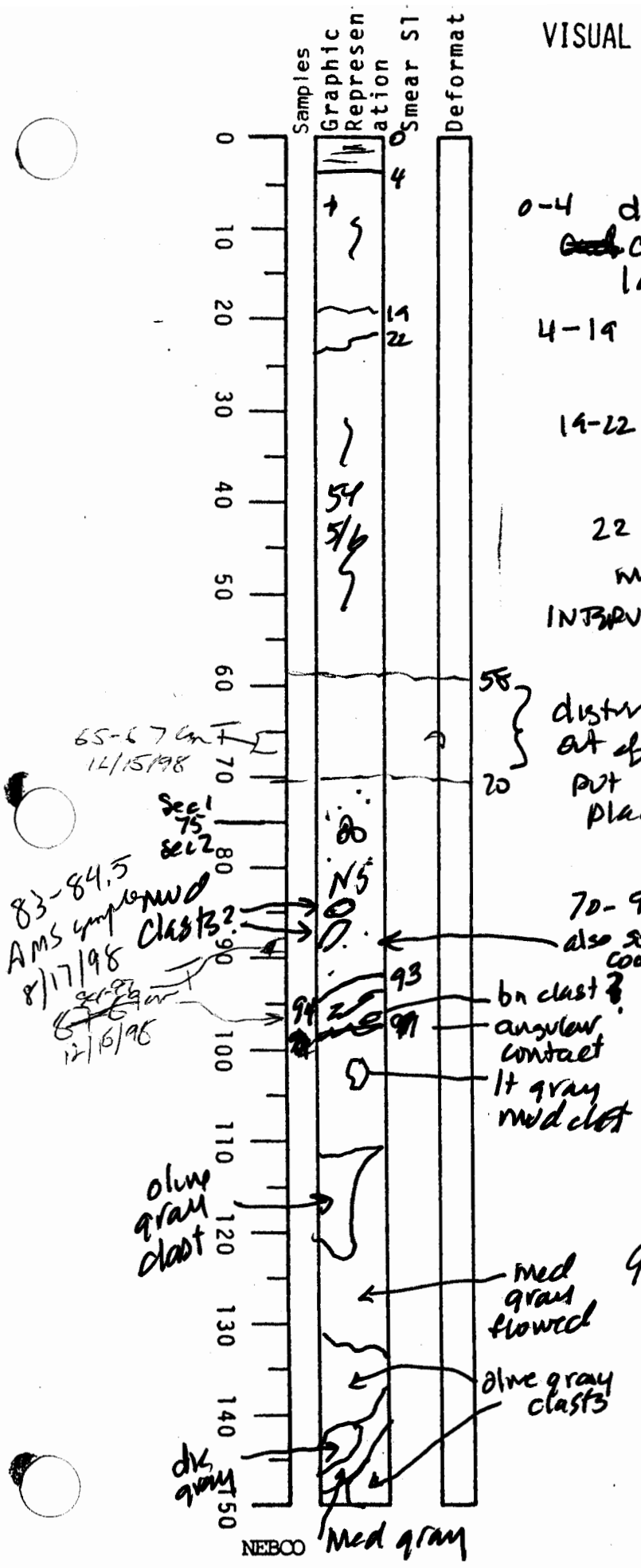
STATION#	OBSERVER
	Grta



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 31	1&2

STATION#	OBSERVER
	JED



0-4 dk yellowish bn clay - Calc forams laminated by black MnOx stains

4-19 Color between dk yellowish bn & olive gray (5Y4/1) 10YR 4/2

19-22 dk yellowish bn clay w/ MnOx stains

22 ~ 53 light olive gray clay 5Y 5/6 moderate burrowed - forams abdt

INTERVAL from 0-55 is well to moderately burrowed forams abdt to common

disturbed - fell out of tube - put back in place → 53-70 smooth → Med gray N5 clay origin uncertain but lack of forams & coarse mat'l ⇒ Clay turbidite?

70-97 is med gray sandy silty clay and forams v. abdt. There may be mud clasts as shown (could be burrows) This bed may be a clast or reworked mat'l

93-150 deformed gray mud of various shades

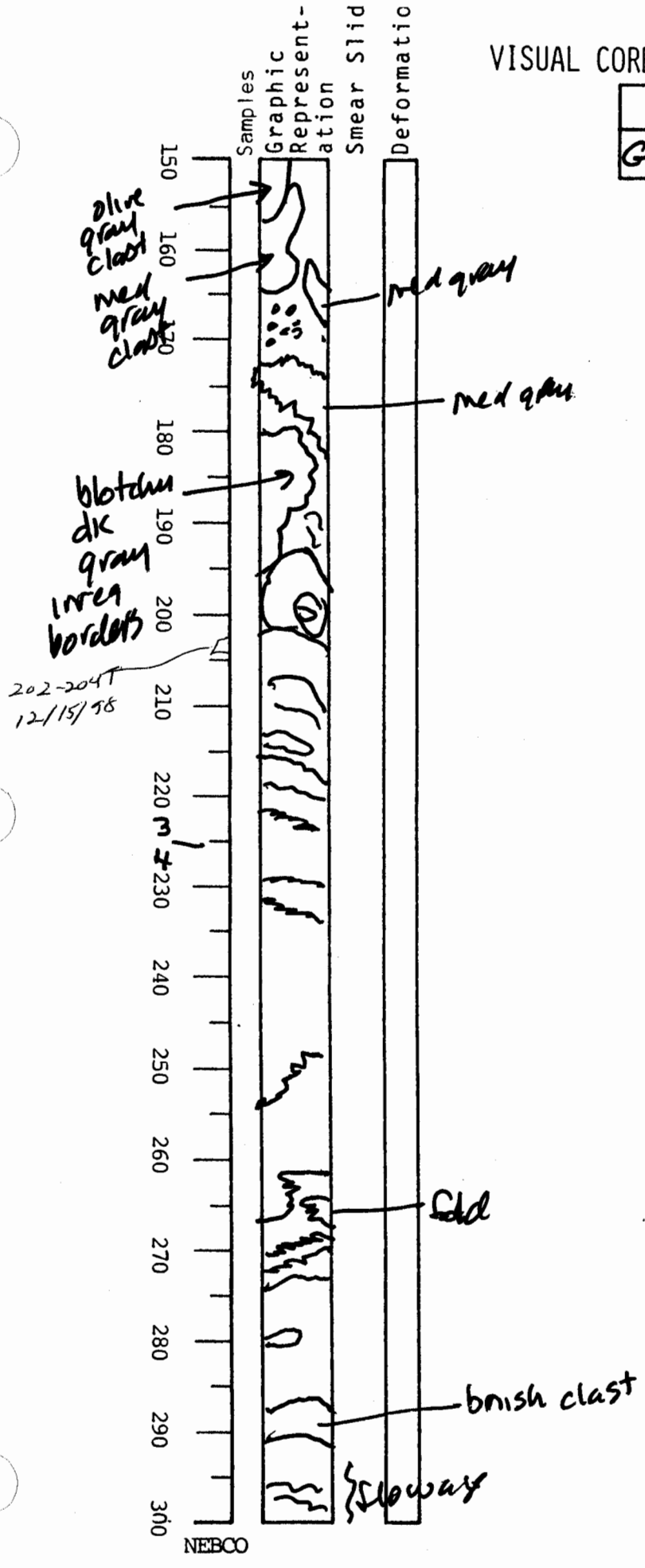
deformation, flowage and mud clasts apparent

MTD continues to base of core

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 31	3 of 4

STATION#	OBSERVER
	JAD



150 - 300 is deformed gray clay of various shades

MTD

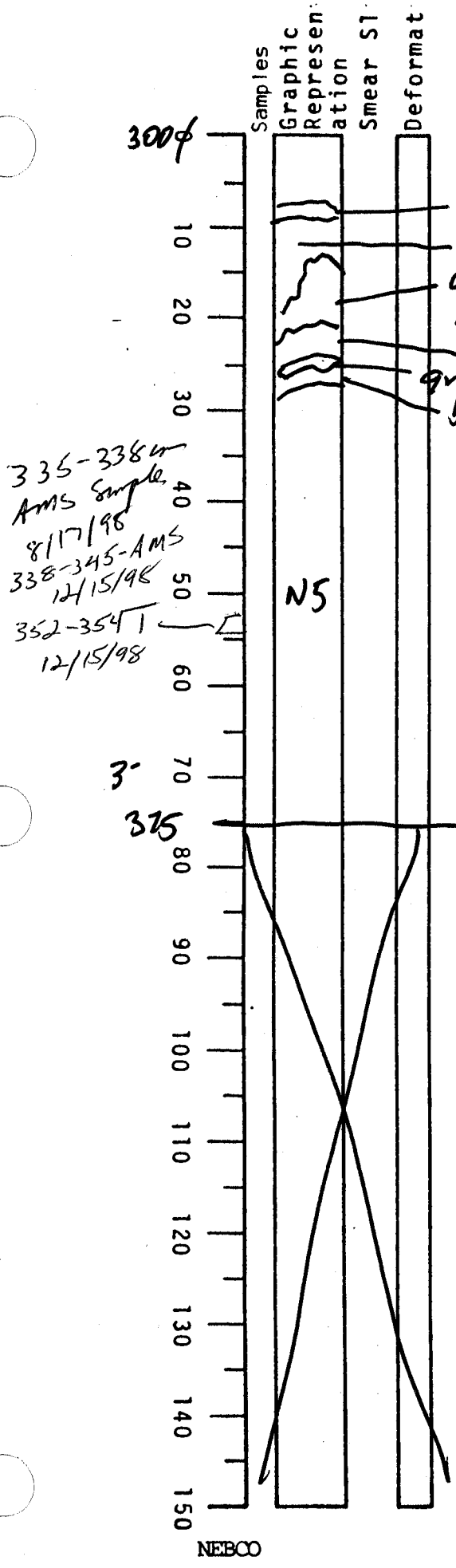
major structures shown

Med - dk N4-N5
med dk gray

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 31	5T

STATION#	OBSERVER
	JRH



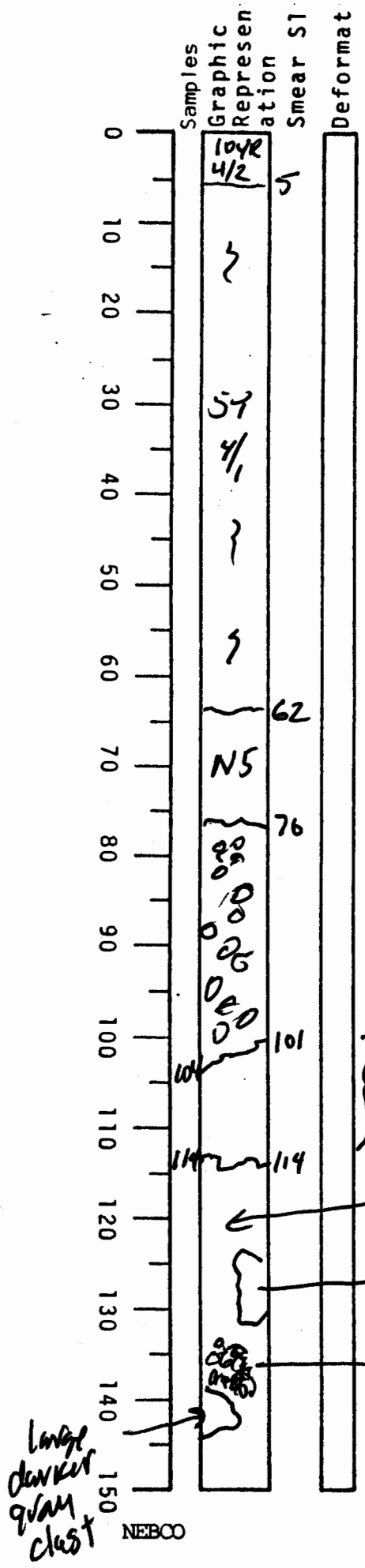
300-375
deformed gray clay like above

below about 30
smooth gray clay N5
homogeneous - except occasional small shell? frags - no good evidence of deformation.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 32	1&2

STATION#	OBSERVER
	JED



0-5 dark yellowish brown calc foram clay some black MNOx lams

5-~62 olive gray calcarich clay forams common slight burrows

62 to base of core 340cm is deformed gray clay MTD slump/d.f.

62-76 smooth gray clay (clast?)

76-101 soupy gray mud w/ stiffer mud clasts - gray to green gray 1mm - 1cm dia

Various shades of gray clasts and structures as noted

101-114 Exotic greenish gray clast (5G 6/1) forams common

114 - 150 gray mud w/ clasts scattered

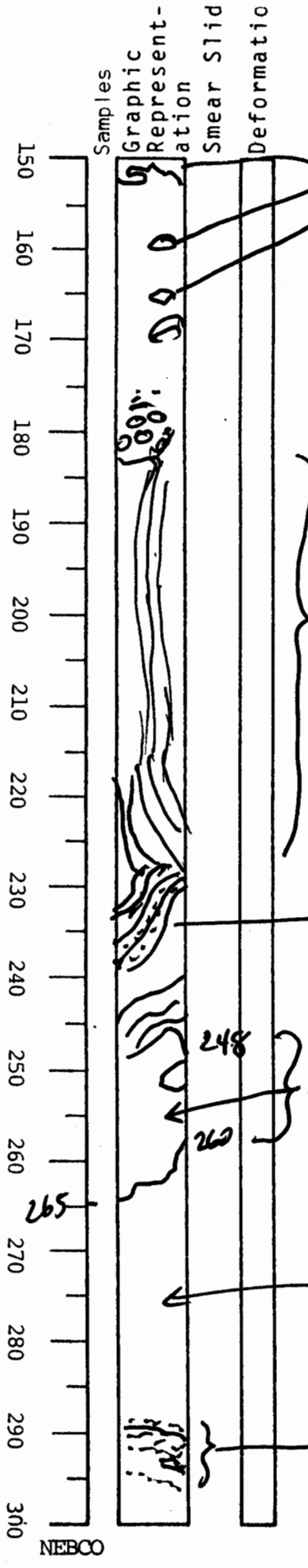
greenish gray clast like 101-114

smaller clasts in soupy matrix

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC
G97-6	PC 32	3 4

STATION#	OBSERVER
	JED

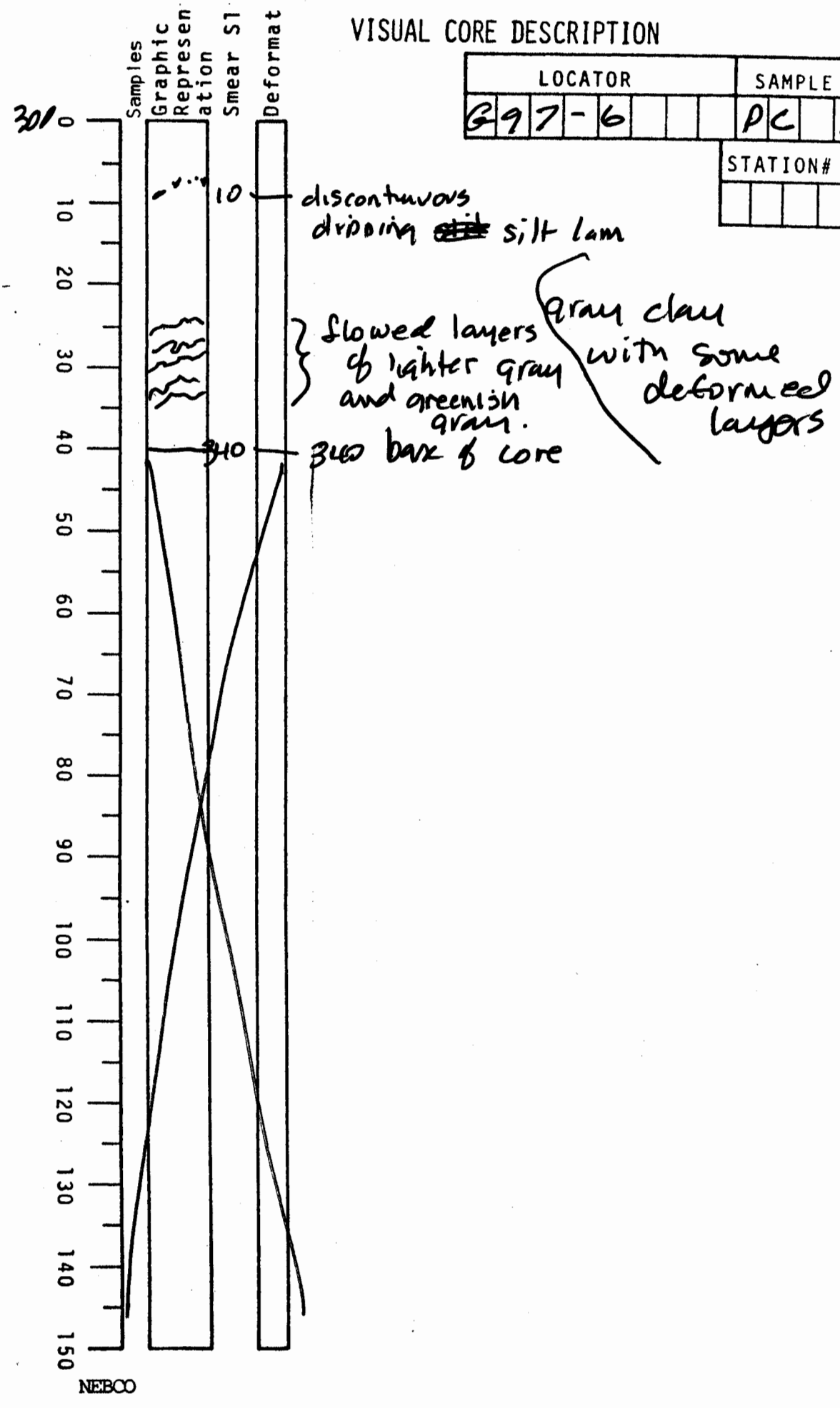


Deformed, flowed gray clay & clasts

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 32	5

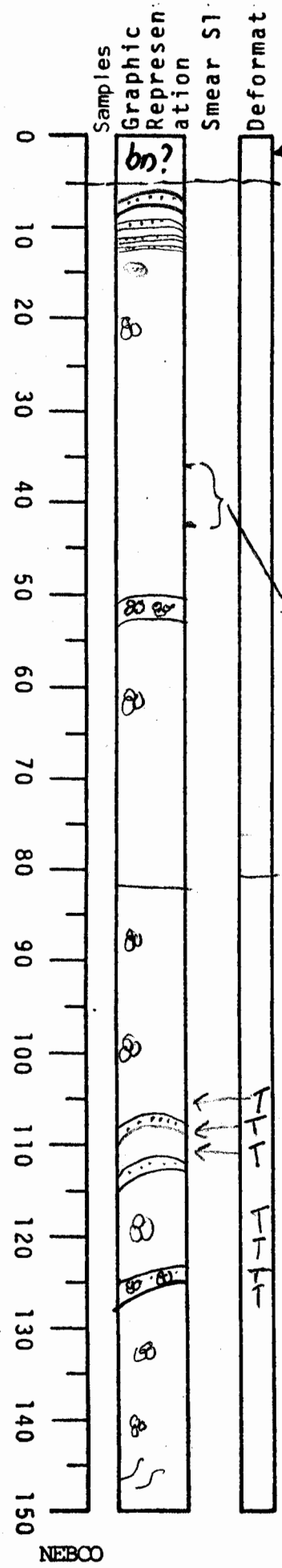
STATION#	OBSERVER
	JED



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 33	1&2

STATION#	OBSERVER
	GIR



Note: top few cm of core fell on floor & lost - seemed to have thin 5cm yellow bn top like cores 32 & 31

0-80
light olive gray clay 5Y 4/1
Forams abundant
clay slightly darker gray 0-15
silt beds at 8-9 + 3 other thinner ones between 9-11

36-41 manganese staining

51-53 Foram sand bed
Top & bottom contacts difficult to observe

end of section 1
gradational contact

80-127 slightly darker olive gray clay 5Y 4/1
Forams abundant

108-5 mm wide silt bed, graded bed
113-5 mm wide silt bed, graded bed

but gradational top

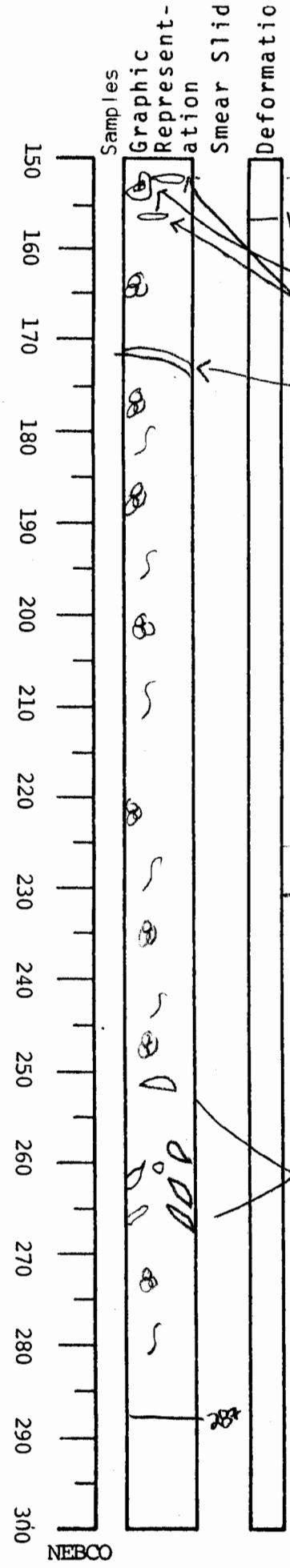
126-128 foram sand with a sharp smooth base

128-287 light olive gray clay 5Y 5/2
Burrowing begins at 143
moderately burrowed

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
GA7-6	PC-33	3&4

STATION#	OBSERVER
	Gita



156 end of section 2

Burrow filled with forams w/ staining around it
Stain = moderate olive brown 5Y 4/4
The other burrows are filled w/ darker gray clay.
Stains as above
The burrows are generally small
1/2 cm - 3cm.

230 end of section 3

burrows

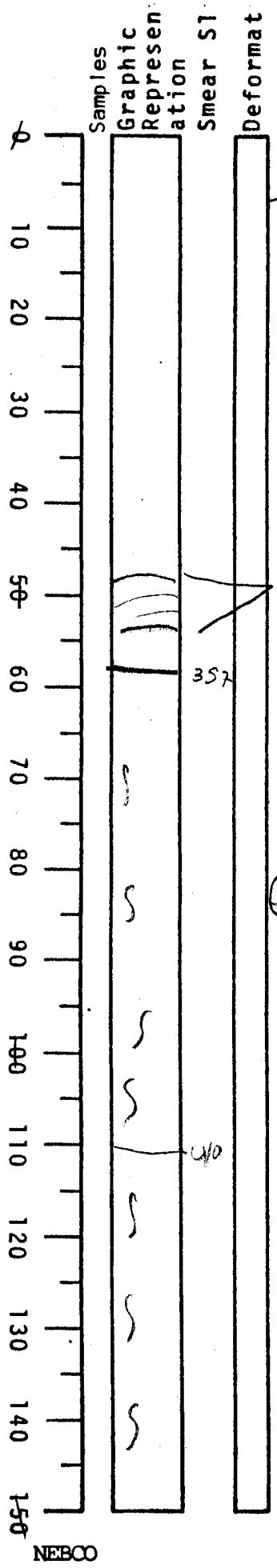
287 gradational contact

287 - 358
olive gray 5Y 4/1 clay
mottled appearance - not distinct burrows

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9717-6	PC-33	546

STATION#	OBSERVER
	Gita



307 end of section 4

348-352 banding

357-410 olive gray 5Y 3/2 clay
extensively burrowed

burrows become more defined filled w/
(384 end of section 5) white, olive gray clay
small oblong burrows generally
1-2 cm

this layer gradually grades
to a light olive gray 2 410
gradational contact

410 - 462 light olive gray, 5Y 5/2
extensively burrowed

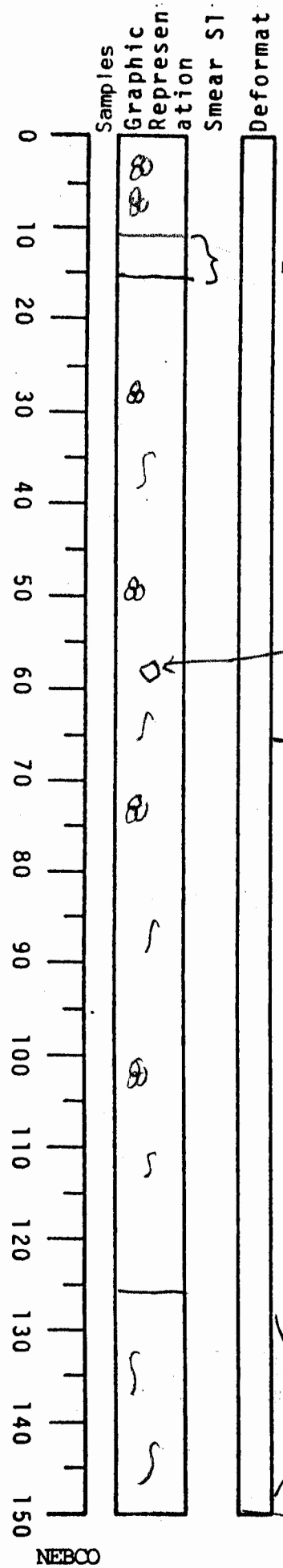
Some variegated clays 3-4 m
but appears to be all bioturbation
can check w/ Gamma log & cf w/
debris flow sections
to verify diff

462 ~~550~~ end of section 6

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-34	1+2

STATION#	OBSERVER
	Gita



0-15 Forams; abndt
dark yellowish brown clay
10YR4/2, soupy
manganese staining

20-125
light olive gray clay 5Y 5/2
moderately burrowed - filled w/ darker gray clay
abundant forams .1-2 cm. burrows

large whole shell

-75 end of section 1

130-135 possible H/P1 Burrow
- beginning of brown layer

gradational contact

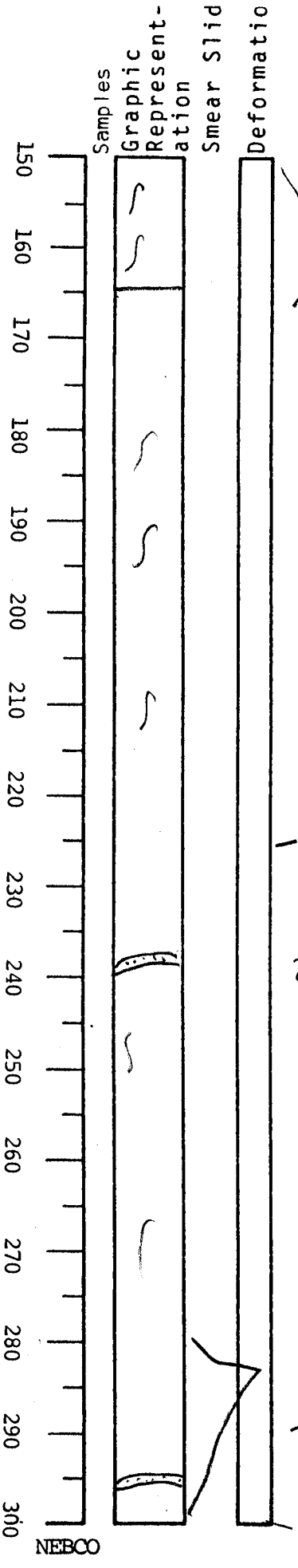
125-160 olive gray clay 5Y 4/1
moderately burrowed - mottled appearance
- slightly brownish color
(not differentiated on chart)

end of Section 2

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	PC - 34	3+4

STATION#	OBSERVER
	Gita



mottled, irregular appearance gradational contact

160-210
burrows become a little more distinct
Filled w/ darker gray clay
burrows ½-5 cm. average 1 cm.

160-410 dark greenish gray 5GY 4/1

-225 end of section 3

248 3mm silt bed

280-315. Absence of burrowing
Smooth

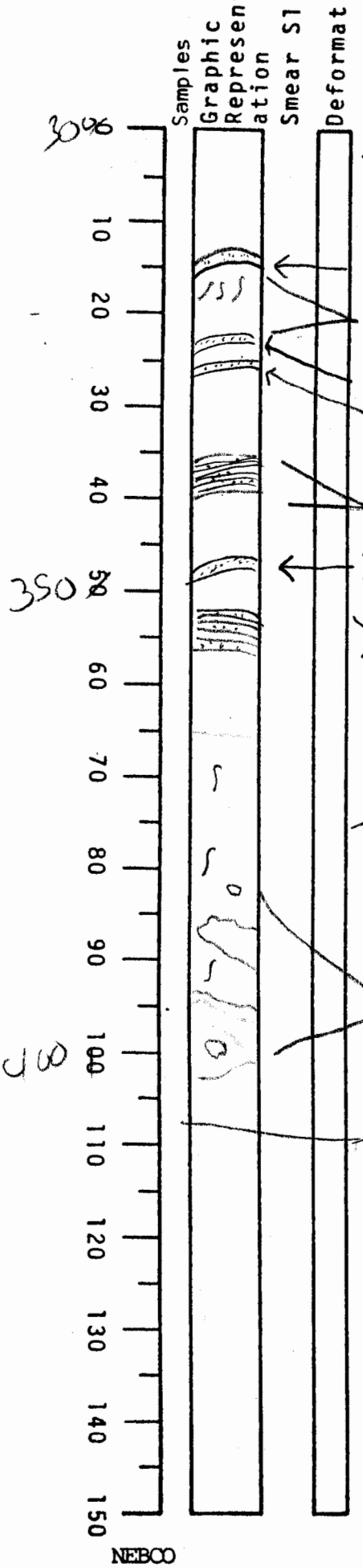
297 2mm silt bed

end of section 4

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
697-6	PC-34	5/6

STATION#	OBSERVER
	Gita



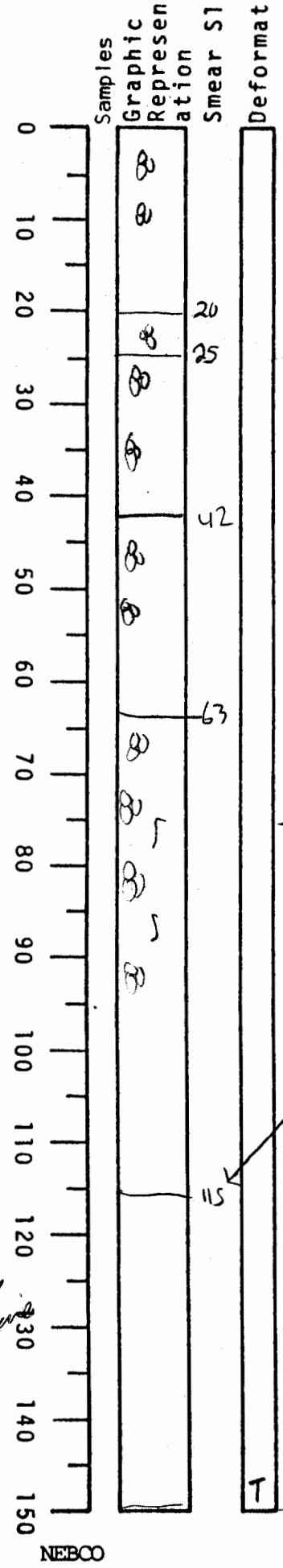
little to no burrowing
→ 315 smooth
314 6 mm silt bed
315-320 1 cm distinct burrows filled w/ darker gray clay
324 - thin 1-2 mm thick silt bed
326 - Thin 1-2 mm thick silt layer.
interbedded silt + clay layers
336, 337, 338, 339 - 2 mm silt layers
348 wider - 5 mm silt
interbedded silt + clay layers (silt 2-3 mm)
(NO burrowing from 325-360
375 end of section 5
extensive burrowing 365-410 cm
Burrowing or clasts ?
410 end of section 6

365-410 looks chaotic ?
clast or burrowing ?

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-35	1&2

STATION#	OBSERVER
	Gita



0-42 dark yellowish brown
10YR 4/2
Foram rich
soupy, structureless

20-25 manganese staining

gradational contact

42-63 forams abundant
light olive gray 5Y 5/2 clay
grades to olive gray 5Y 4/1 clay at 63

63-105 olive gray 5Y 4/1

End of section 1

Foram abundant
Evidence of mild burrowing - this may be due to smearing as core was split - did not separate well. Very unconsolidated through sec. 3

gradational contact

115-270 olive gray clay 5Y 4/1
smooth, structureless, non-burrowed
homogeneous

Lack of structure - ? real or due to smearing of core ?

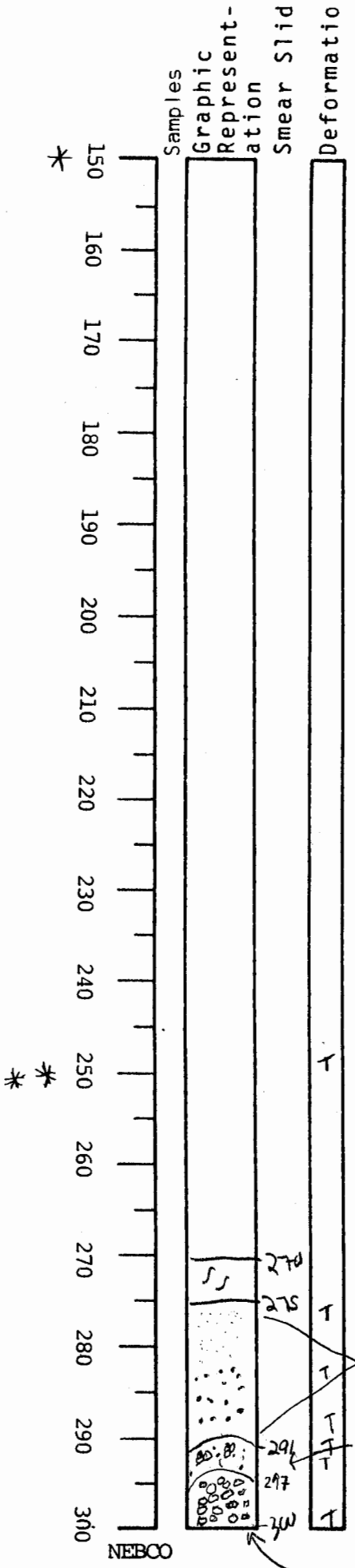
110-112 cm AMS sample 8/17/98
108-112 cm AMS sample worked and archived 12/11/98

150 end of section 2
150 inches CF

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-35	3+4

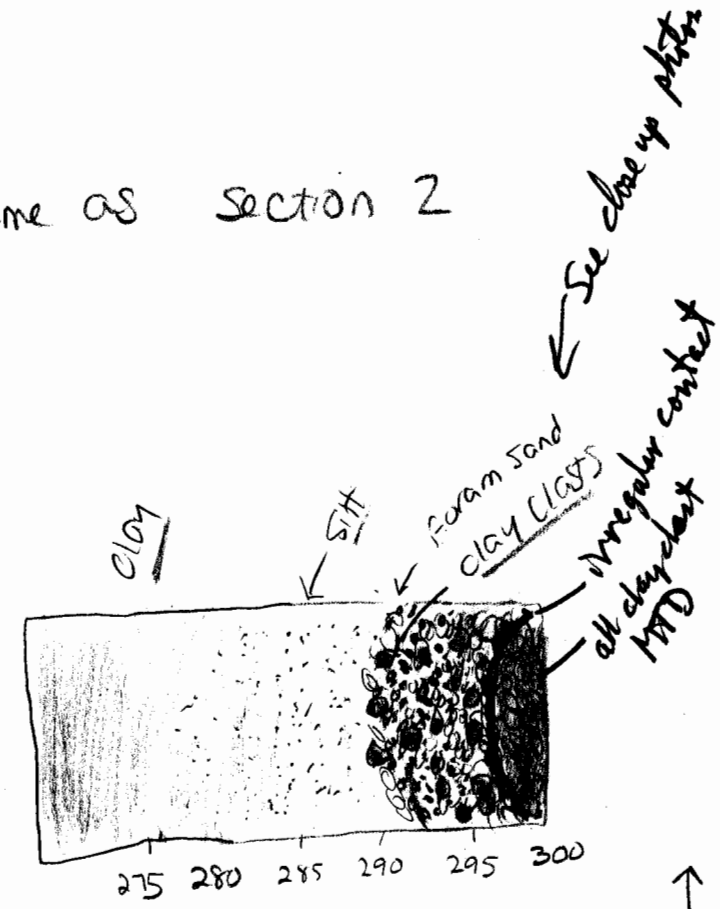
STATION#	OBSERVER
	Gita



* at 150 very little coarse fraction - organics, forams

** at 250 even less coarse fraction - forams

same as section 2



270-275 6 district burrows filled w/ lighter gray clay - round, 1/2 cm size

276-290 graded bed from clay - to silt

base contact - graded includes clay + foram sand

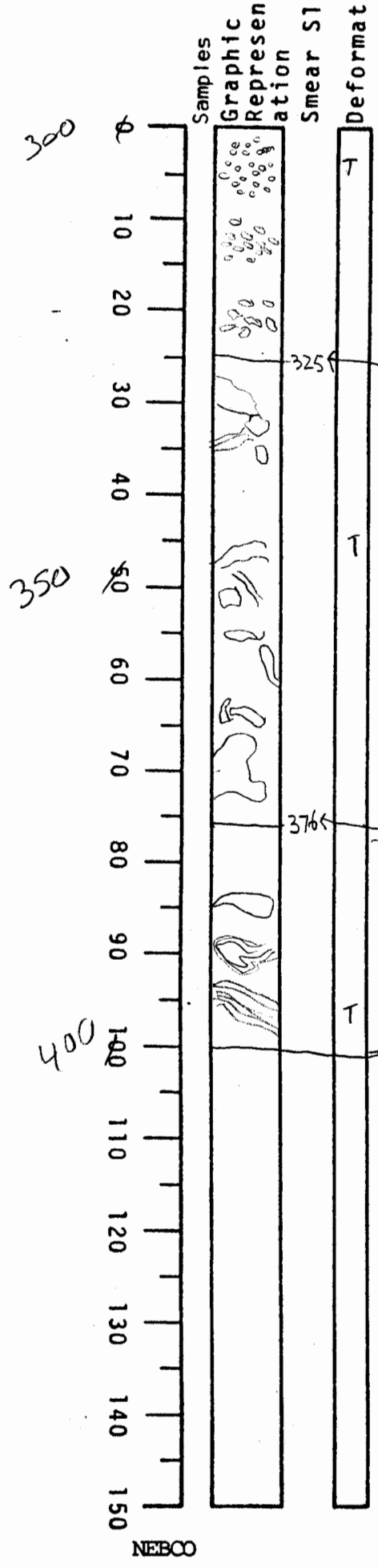
6 cm. wide band of foram sand beds which includes about 35% multi-colored clay clasts - not banded! The clast w/in the bed are upto 1 cm but average ≈ 3mm see picture above

297-300 these clasts continue below.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC-35	5+6

STATION#	OBSERVER
	Gita



297-400 multisource clay clast the clast size increases w/ depth. irregularly shaped. Flow boundaries

at 300cm average clast size is 4mm.

at 320 average clast size is 1cm.

at 325 the clasts become less defined and more smeared until 376.

297-400 Forams common

(all sketches on this page are of clasts)

at 376 the clasts are larger & more defined irregular boundaries

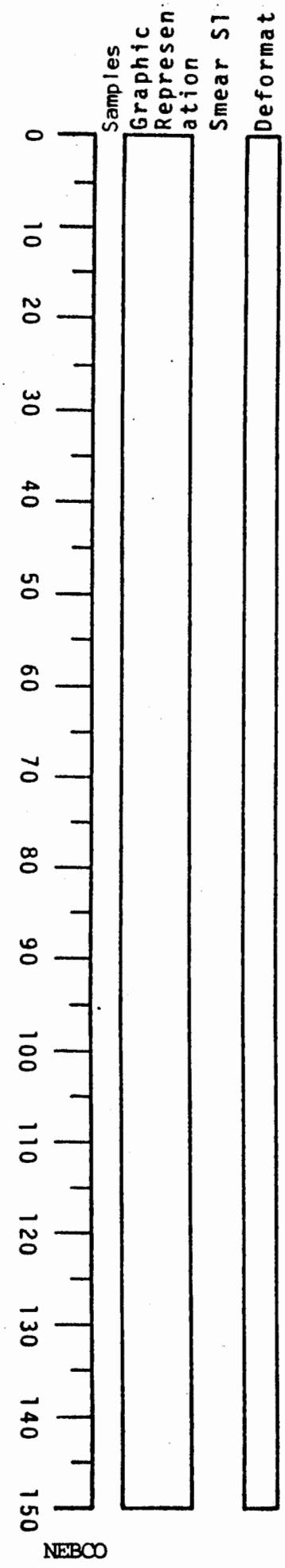
end of section 6

note: core was extremely unconsolidated for entire 3 sections

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.

STATION#	OBSERVER

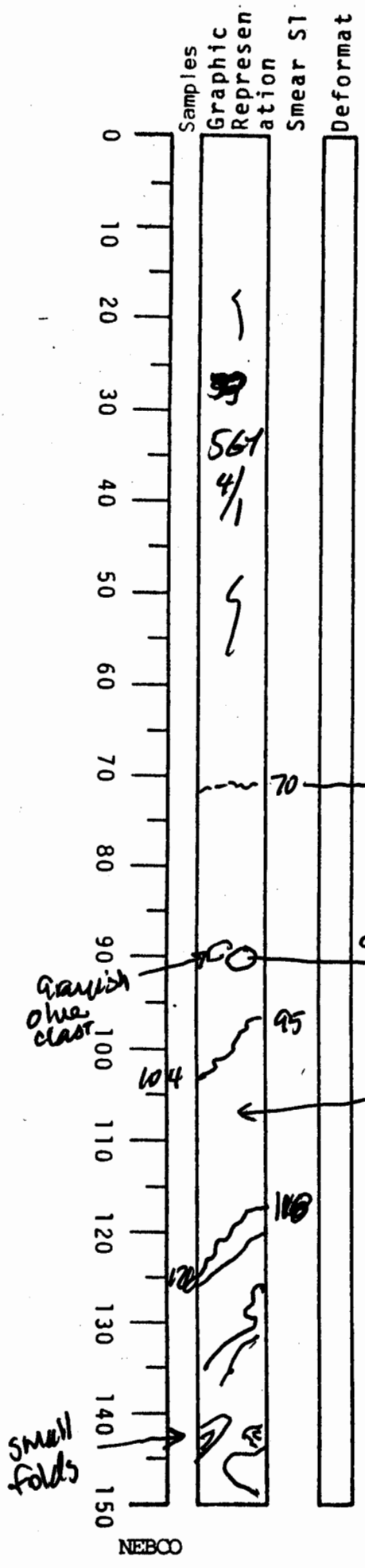


697-6
CORE 36
NOT
OPENED
(FOR BRYANT)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 37	1&2

STATION#	OBSERVER
	JED



0- ~65
olive gray to dark greenish gray.
Silty clay
soupy
forams abdt
mor silty in upper 20cm
slight burrows

~70 — Contact ~70 cm
exact contact uncertain

~65 to base of core is deformed gray mud and mud clasts of various shades of gray
grayish olive 10Y 5/4
olive gray 5Y 3/2
medium gray N5

90 — olive gray clast

95-128 large olive gray clast

This is an MTD
slump/debris flow

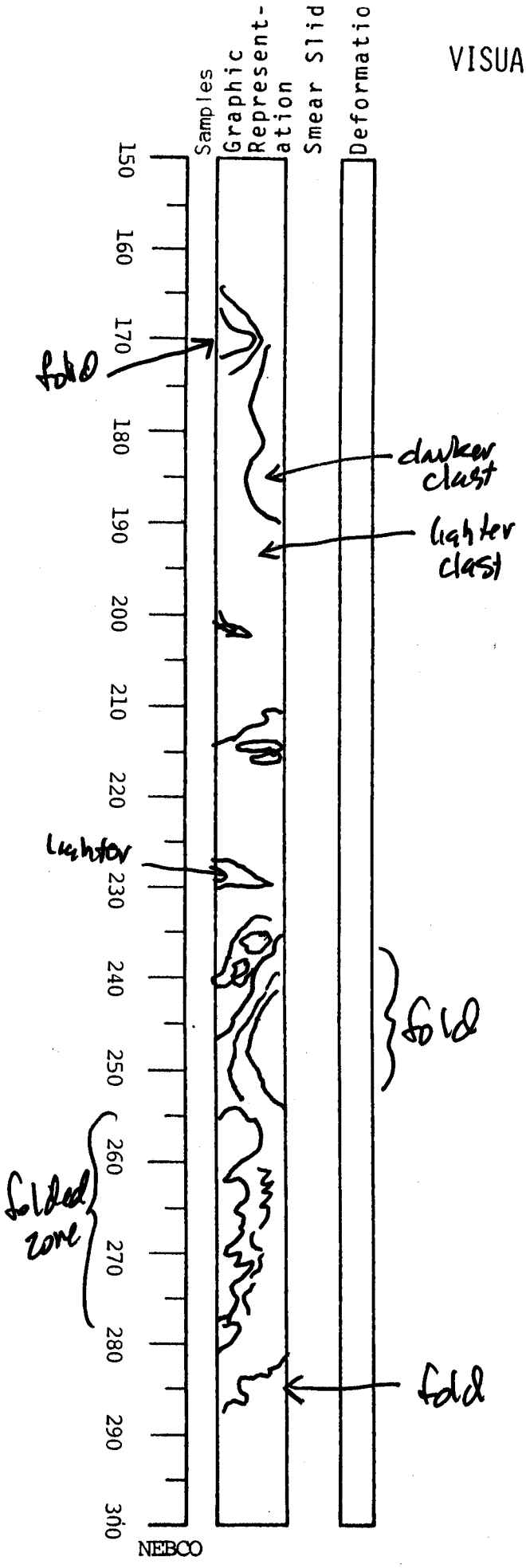
Major structures shown

VISUAL CORE DESCRIPTION

3 4

LOCATOR	SAMPLE NO.	SEC.
G9 7 - 6	P C 37	3 6

STATION#	OBSERVER
	JED



150 - 300

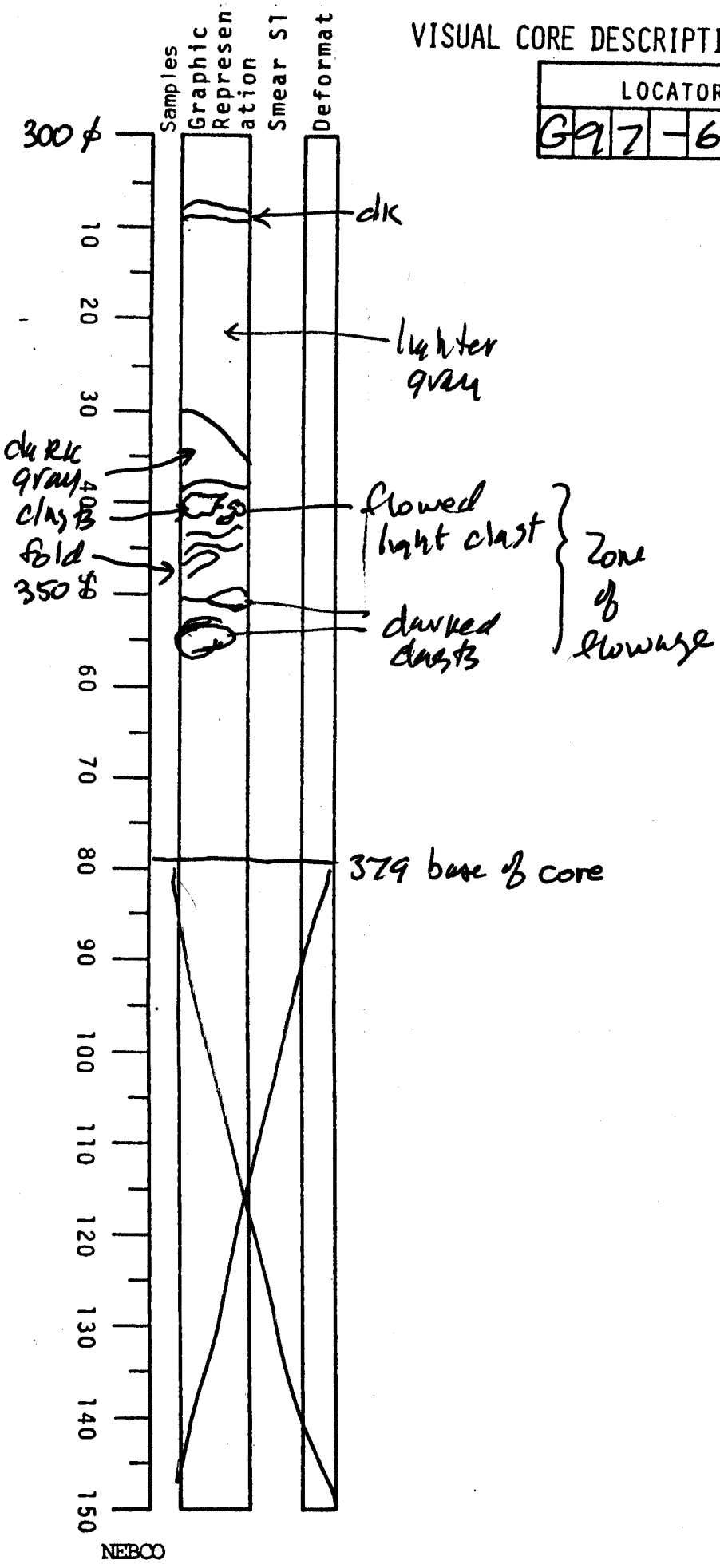
Deformed, folded gray clasts

major structres shown

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G9 7 -6	PC 37	5

STATION#	OBSERVER
	BD

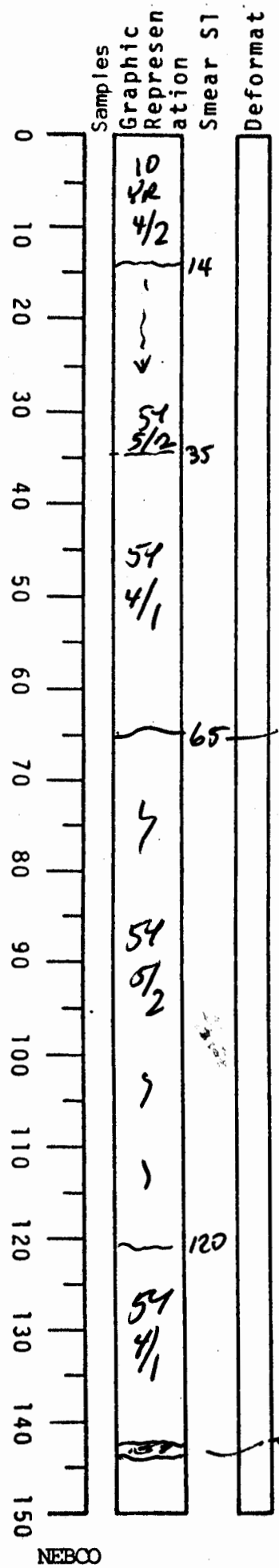


deformed folded gray clays and clasts

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 38	1/2

STATION#	OBSERVER
	JED



0 ~ 14 olive yellowish brn calc foram clay 10YR 4/2

14 - ~35 becomes lighter ~~dk~~ dk yellowish brn and grades ~~down~~ downward into light olive gray 5Y 5/2 by 35 well burrowed

35-65 olive gray foram 5Y 4/1 rich clay moderate burrows

65 - sharp wavy contact

65 - ~120 light olive gray clay 5Y 5/2 moderate burrows forams abdt.

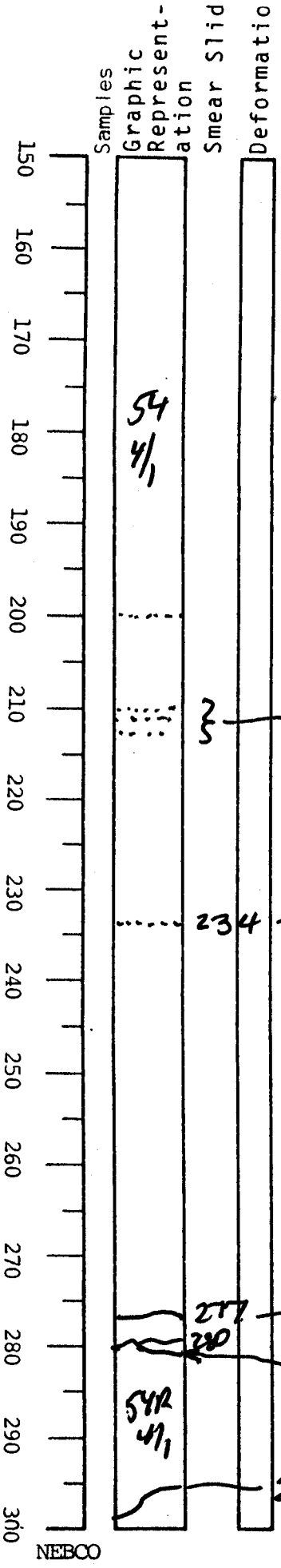
120 - 150 olive gray 5Y 4/1 smooth ~~gray~~ clay - finely laminated lighter & darker

143-144 burrow of lighter gray clay abdt forams

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC38	5&4

STATION#	OBSERVER
	JED



150 - 277

smooth gray highly laminated clay

olive gray 5Y4/1

rare burrows

rare st lams as noted

} possibly v. thin st lams (<1mm thick)

234 - 1mm st lam

277-280 brownish gray 5YR4/1 clay with abdt forams

280-299 brownish gray 5Y 4/1

277 — sharp lithologic contact

280 — lighter bn clast? or burrow?

296 angular contact

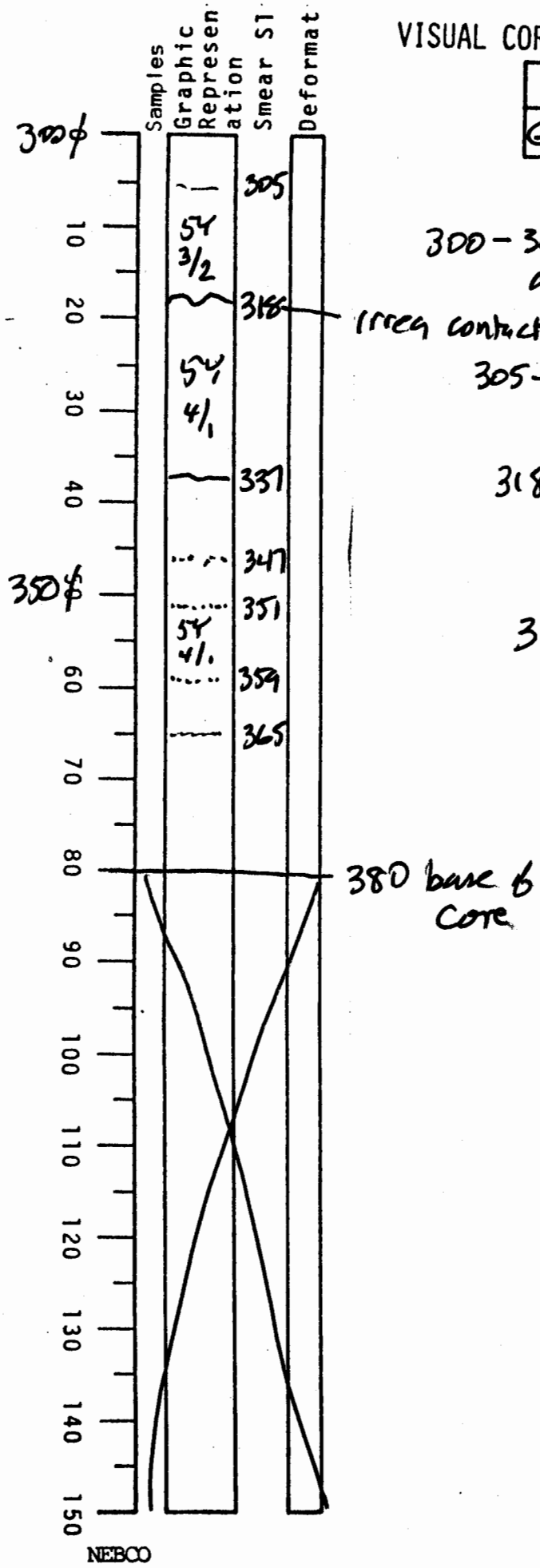
296 - 300 slightly darker brnish gray

[NOTE: 277-300 may be exotic displaced seds.]

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
G97-6	PC 38	5

STATION#	OBSERVER
	JED



300-305 dk bnish gray as above

305-318 olive gray 5Y 3/2 clay - well burrowed

318-337 olive gray 5Y 4/1 well burrowed clay

337-380

well laminated smooth gray clay olive 5Y 4/1 like 150-277

a few sf lams (<1mm thick) as noted