Schwab/ Gulf of
Twichell FARNELLA Mexico
FRNL F4-90-GM
April 12-26, 1990

VISUAL CORE DESCRIPTION

104741

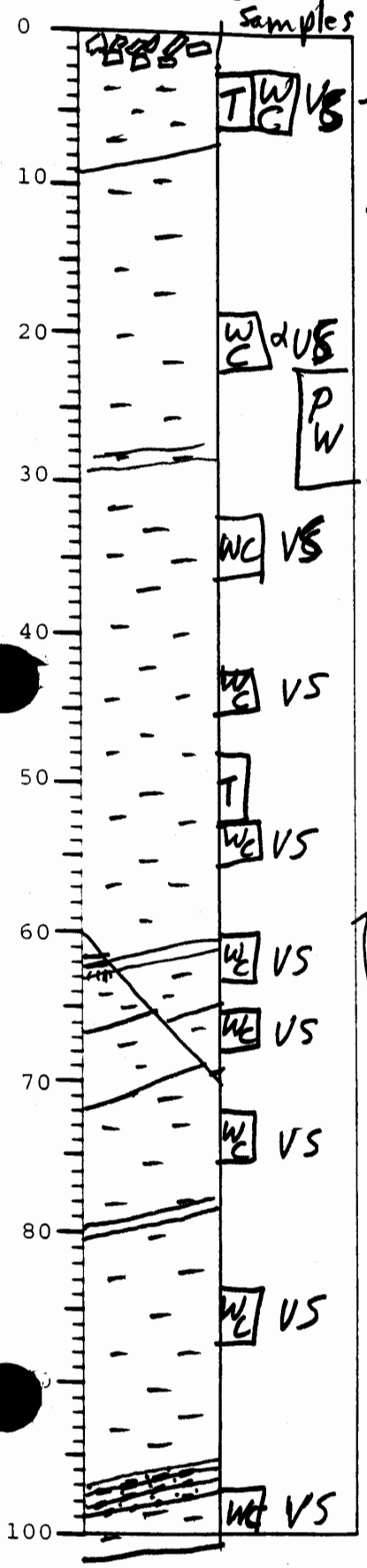
VISUAL CORE DESCRIPTION

F-4-90 -

Sta. 1 Core No. GC-1

2m. barrel

Lithologic Log



Detailed Description

0-2cm Mysterious clay pellets that occur at

T= 2-4cm the top appear to be mud extruded into holes in the ~~top~~ of cutting head

Actual to P2 2-9cm Dark Yellowish Brown Clay 10YR 4/2 exotic

- All contact slightly angular ← oxidized surface clay

9-29 Olive gray clay 5Y 3/2 homogenous

@ 29 fracture through core, but not certain if its gas

28-29 cm faint darker color due to organic? debris

Below 29 cm slight color banding

w/ dark faint bands of blacker organic debris @ 46, 49, 56, 63, 80, 93

29-97 cm - subtle alternating lighter 5Y 5/2 w/ 5Y 3/2

ie 63-68 = lighter band bordered by org debris

63-73 off set by small normal fault which can be observed in color banding

series of 5 dark laminae w/ black flecks

below 29 cm all laminations appear to be preserved & without apparent bioturbartion

possible change from Holocene to Pleistocene

Photo @ 0- 75cm was not labeled

97-99 = silt clay w/ 5 black liminae

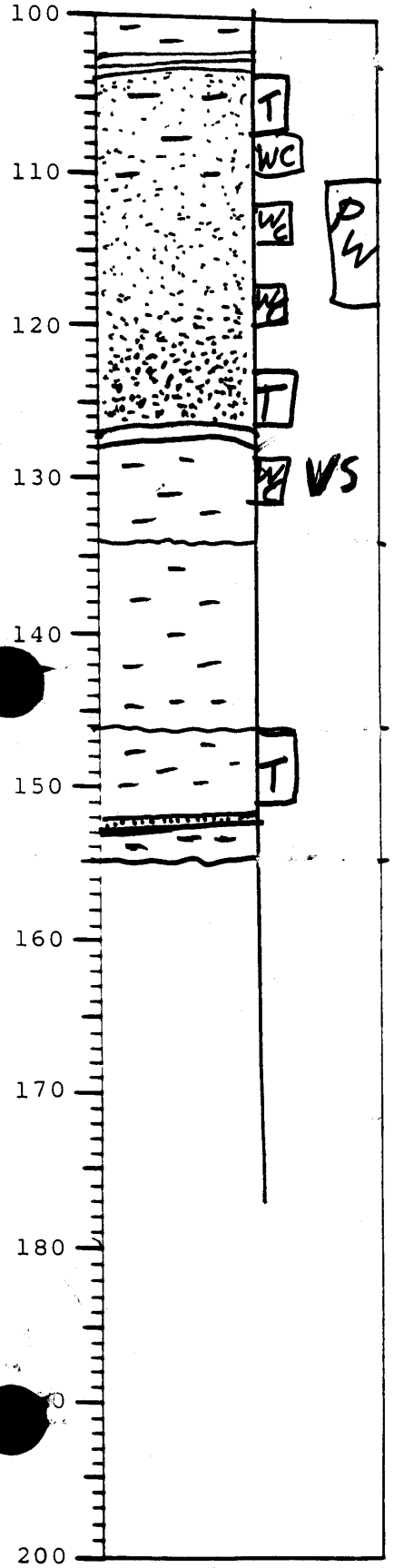
99-102 clay of slightly lighter color between 5Y 5/2 - 3/2

VISUAL CORE DESCRIPTION

F-4-90

Sta. GC-1 Core No. _____

Lithologic Log



Detailed Description

102-127 graded silt layer - clayer silt @ top to sandy silt at the bottom
cannot see if it has structures because liquefaction water of ship vibration covers the surface

sharp base to silt layer
127-128 dark black band @ base of graded silt

Core Catcher - 12 cm clay plug

Cutting Head 9 cm plug of clay 5GY 3/2 olive gray
- Thin silt laminae in cutting depth cannot be determined exactly

T = Texture Sample

P = paleo

RC = Radio carbon

VS = Vane Shear

PW = Pore Water + Organic C by C. Paull

Good Velocimeter data - shows silt

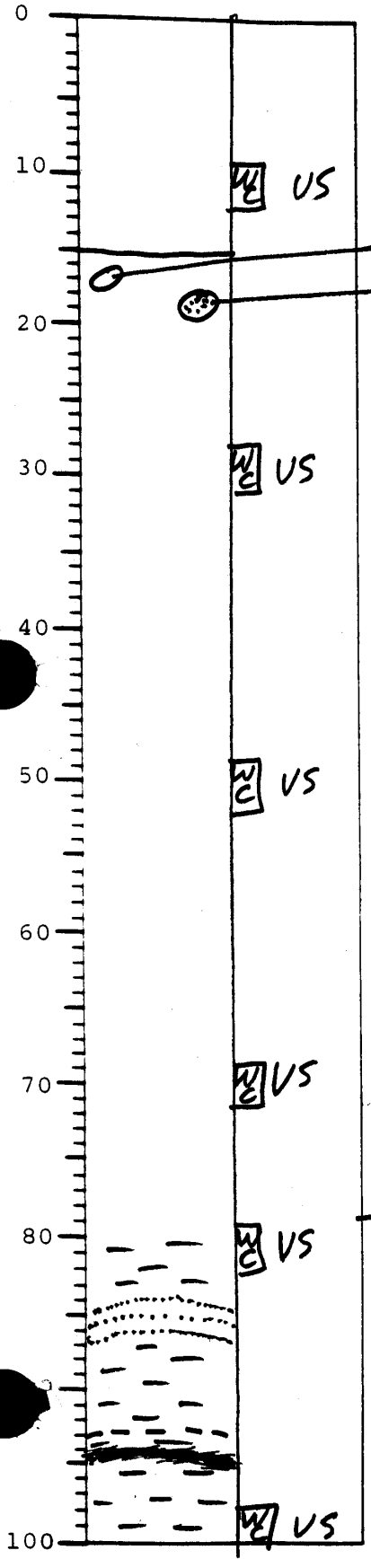
VISUAL CORE DESCRIPTION

F-4-90

Sta. PC 2 Core No. _____

Lithologic Log

Detailed Description



yellow clay

yellow bleb

burrow w/ foraminiferal sand

See TC-2, exactly the same stratigraphy as the PC-2

But TC 2 has repenetration

Thin silt lamina w/ black organic spots 2-3 mm

black organic horizon - 1cm thick

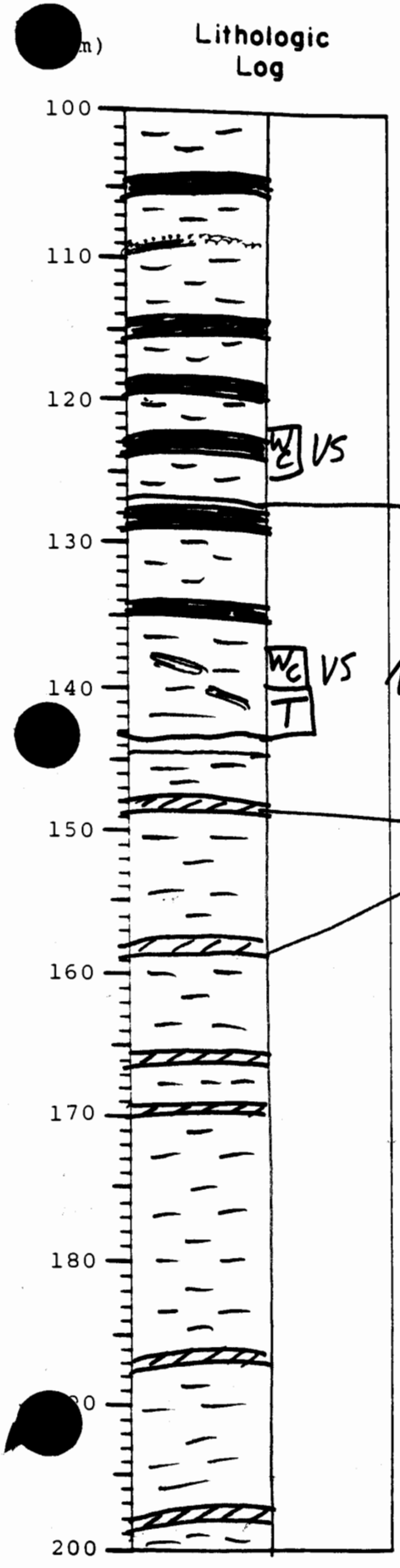
Clay remains Olive gray 5Y 3/2 from 15-100cm

VISUAL CORE DESCRIPTION

F-4-90

Sta. PC 2 Core No. _____

Lithologic Log



Detailed Description

Black Organic bands of 1cm in olive gray clay
Olive black 5Y 2/1
organic + silt blebs ½ cm

slighty brown lam. just above - possibly hemipelagic & other = muds

Subtle Color change to Olive gray 5Y 4/1 w/ faint broken black blebs
or 10Y 2/2 dusk yellow br.

Base of 1st. Section
Top of 2nd section

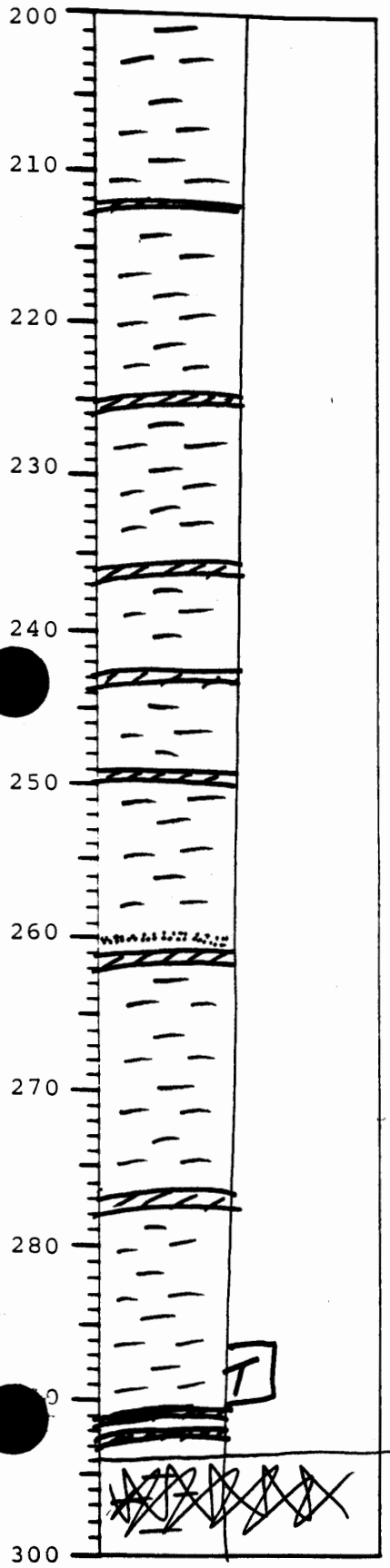
Black layers etc

VISUAL CORE DESCRIPTION

F-4-90

Sta. PC 2 Core No. _____

Lithologic Log



Detailed Description

black clay layers - Grayish black N-2 - most ea ½-1 cm thick

other scattered carbon blebs

& faint black lamina throughout

general 5Y 4/1 colored clay for entire section

thin - 1-3 mm silt laminae @ 260 cm

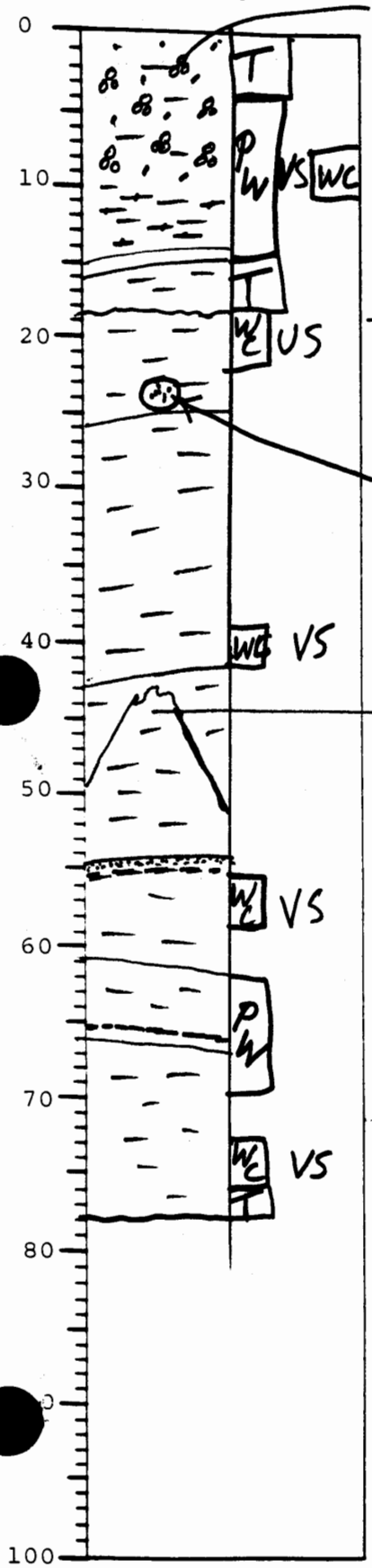
Base of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. TC 2 Trigger Core for PC-2

Lithologic Log



Detailed Description

foraminiferal sandy mud 0-10 cm

0-19 cm dark yellowish brown 10YR 4/2

15 + 16 cm dk br laminae that are undisturbed -

0-10 cm is a ∞ ooze to sandy ooze

-10 cm to 55 + 55 to end = all clay

-19 to 26 cm Olive gray 5y 3/2

-26-43 different hue slightly lighter gray

Bleb w/ ∞ sand - bioturb?

43-55 lighter yellowish gray 5Y 4/1

Vesicle & cone shaped shear on either side

Possible Holocene - Pleist change

55 - silt lamina of .05 cm thickness

56 & 66 = ½ cm black organic lamina

same as 43-55 color

Olive gray clay w/ black flecks

78 cm = end of Trigger core

T = 0-4 cm

17-19 cm

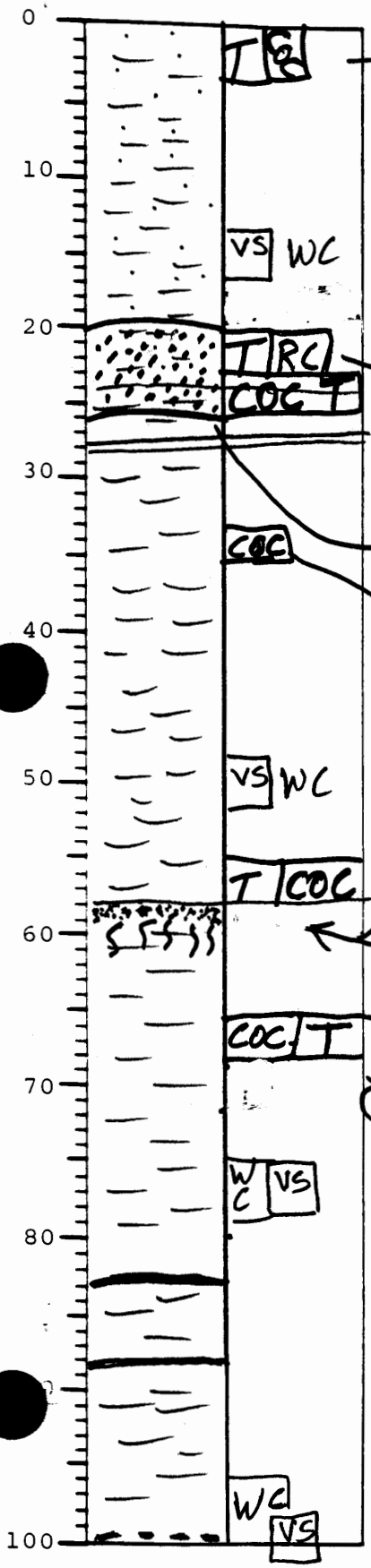
75-78

VISUAL CORE DESCRIPTION F-4-90 Page 1 of 2

N. Kenyon

Sta. PC-3 Core No. _____

Lithologic Log



Detailed Description

OOC - Carbonate + Organic C 2-3 cm

0-25 yellowish brown fine sandy mud - foram rich

20-21 Top of ∞ sd for texture

24-25 cm COC + Texture of ∞ sand

20-27 foraminiferal sand yellowish

Poss dating for RC of ∞ (Note trigger core has more sample for this + 68-70 ∞ sd for dating)

Bottom of section

Top of section

25-59 cm salmon pink clay (officially light brown 5YR 6/4)

2-33 cm

Possible date of RC ∞ sand (58-60 cm sd bed of early Holocene or L Pleist.

55-56 in pink clay base Tex + COC

59-62 cm olive gray (5Y 4/1) clay coarsening up into fine ∞ sandy clay with forams and other calc. fragments

bioturbated for 5 cm just below ∞ sand

Poss. change to Pleistocene

Pleist. Clay (?) charact of Texture + COC @ 1st unbioturb + course fraction

66-67 poss Pleist. clay

62-100 cm olive gray clay 5Y 3/2

dark gray bands

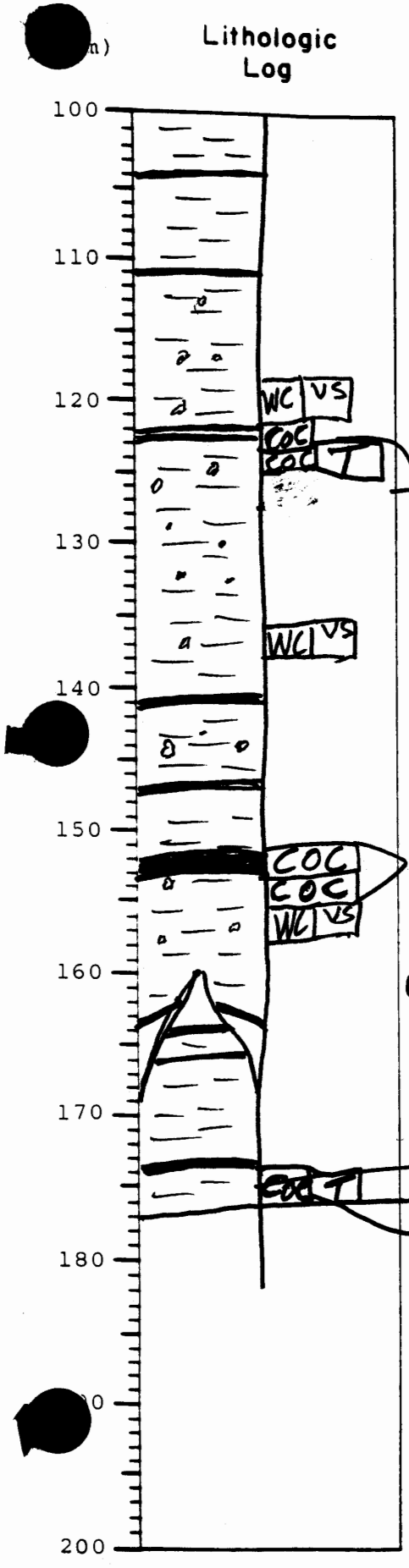
discontinuous dark band

VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC 3



Detailed Description

black band

black band

black band

123-124 cm — 125-126 cm

in dark band & just below for COC 1

" " " Texture

100 - 177 dark olive gray clay (5Y 3/2) with black blebs and faint black laminations between the prominent black bands.

black band

black band

COC in band & out of band

black band

conical shear displaces bands.

174-178 = 10 YR 2/2 color change at base - possible Pleist hemipel?

Base of core

177 -178 COC + T

VISUAL CORE DESCRIPTION

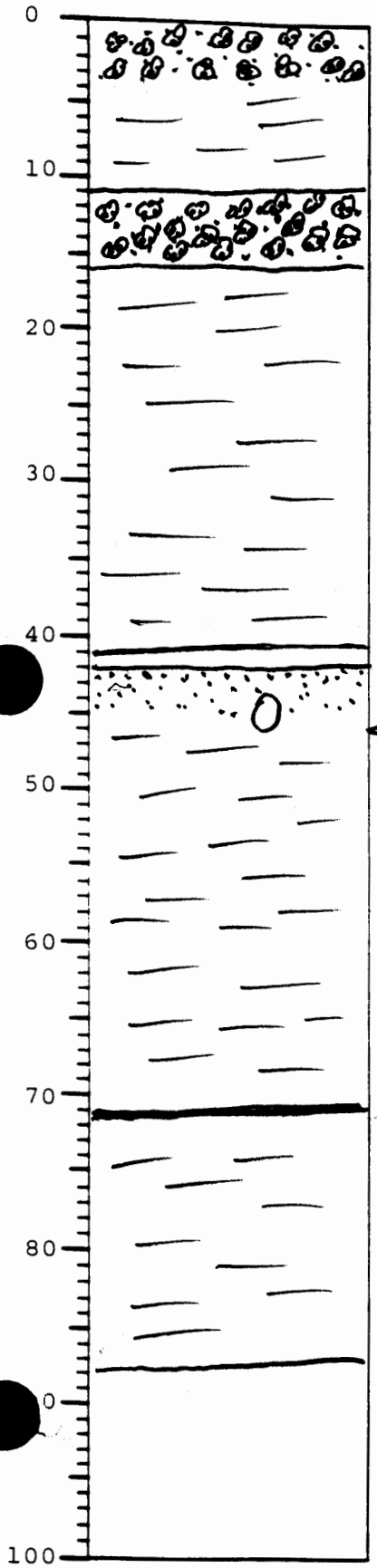
N. Kenyon

F-4-90

Sta. _____ Core No. TC 3

(cm)

Lithologic Log



Detailed Description

fine sandy ~~clay~~ mud / ~~clay~~ mud } moderate yellowish brown 10YR 5/4

10YR 5/4

11-14 Fine foram. sandy ~~clay~~ mud - moderate yellowish brown

14-16 Fine sandy ~~clay~~ mud - foram rich - dark yellowish brown 10YR 4/2

26-42 uniform light brown (5YR 6/4) clay rather salmon pink

41.5 dark band. sharp contact

42-45 silty clay, coarsening up into fine sandy clay mainly forams.

burrow

Uniform olive gray clay 5Y 4/1

Very faint laminations

possible Pleist to Holocene change

Olive gray (5Y 3/2) clay

Black blebs and faint-discontinuous laminations

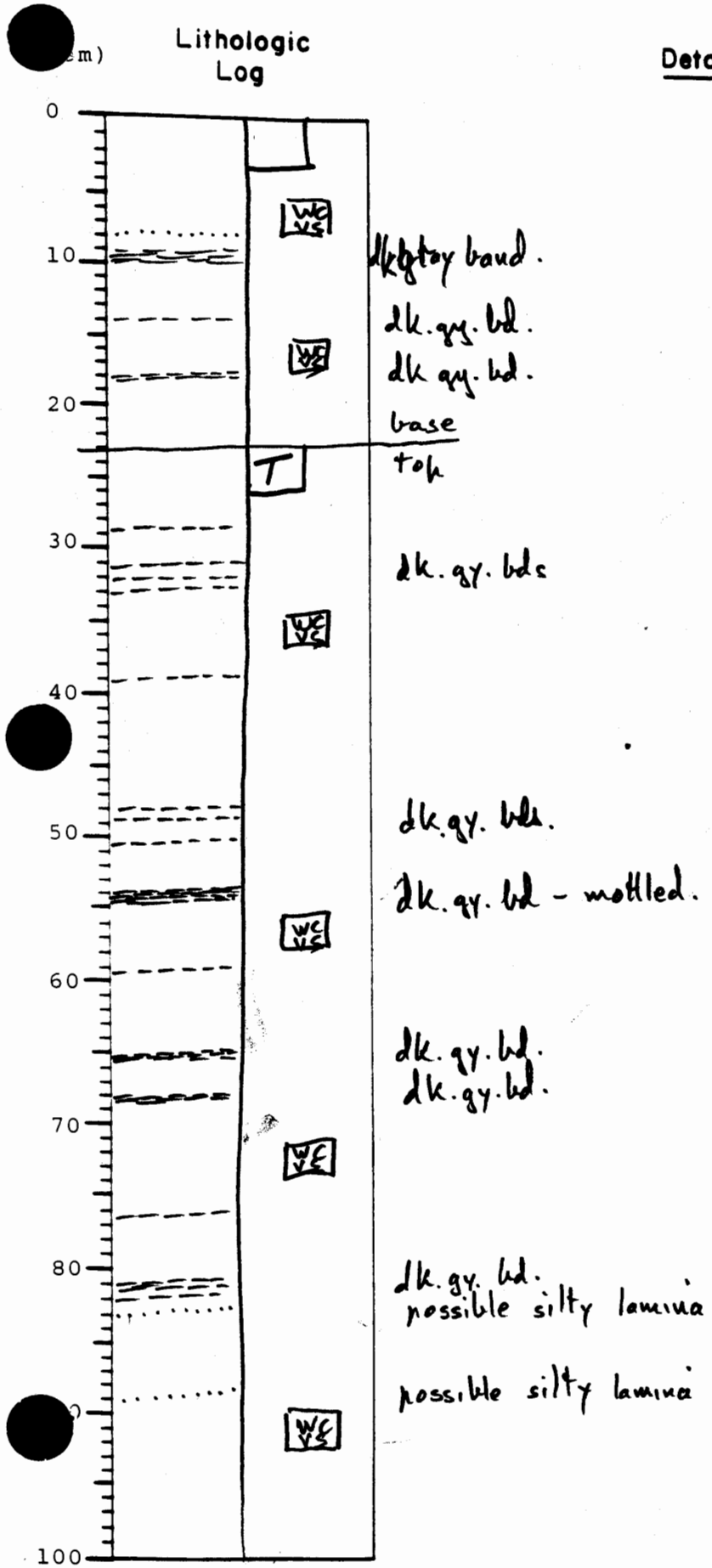
Bottom of core

VISUAL CORE DESCRIPTION

N. Kenyon

F-4-90

Sta. _____ Core No. PC4



Detailed Description

repeated layers of dark gray, pale brown (5YR 5/2) and dark yellowish brown (10YR 4/2) sticky clay.

No obvious bioturbation

Colour bands are up to 6cm thick.

Many fine laminations seen where surface is cleaned up.

VISUAL CORE DESCRIPTION

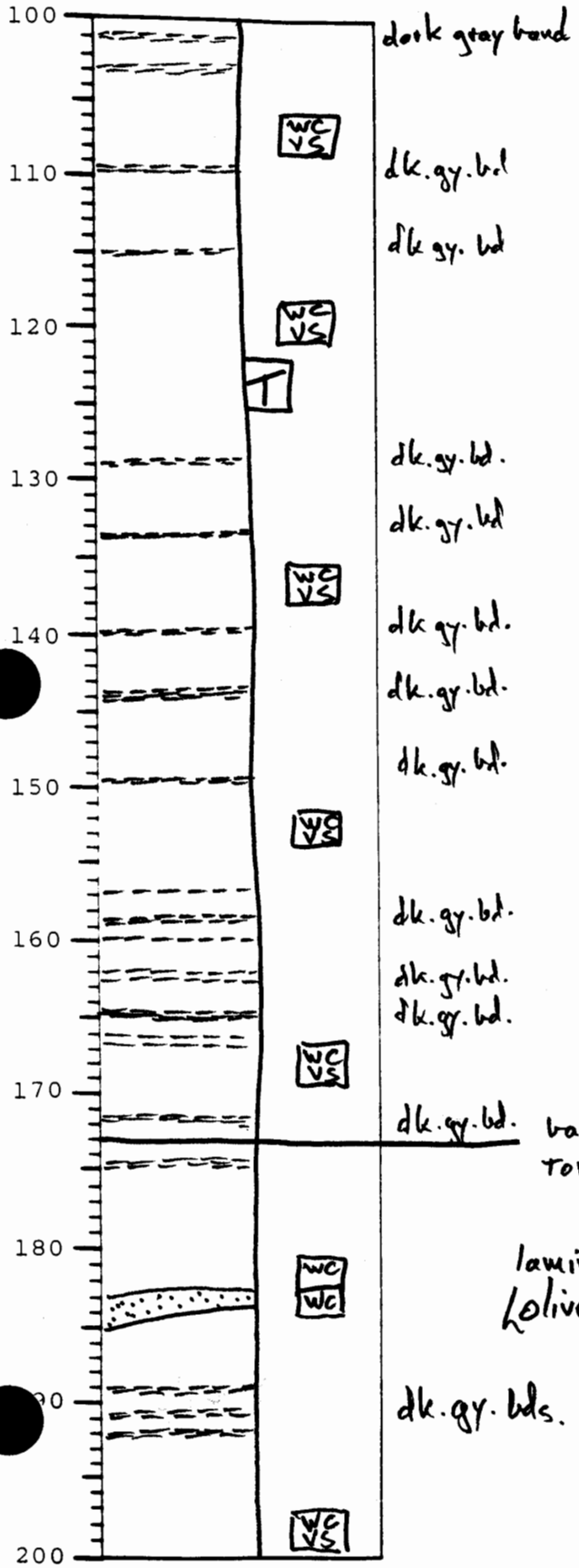
N. Kenyon

F-4-90

Sta. _____ Core No. PC4

Lithologic Log

Detailed Description



dark gray band

dk.gy.bd

dk gy. bd

dk.gy.bd.

dk.gy.bd

dk gy.bd.

dk.gy.bd.

dk.gy.bd.

dk.gy.bd.

dk.gy.bd.

dk.gy.bd.

dk.gy.bd. base of section

top

as above.

laminated olive gray 5Y 3/2 silty clay - uneven thickness

dk.gy.bds.

VISUAL CORE DESCRIPTION

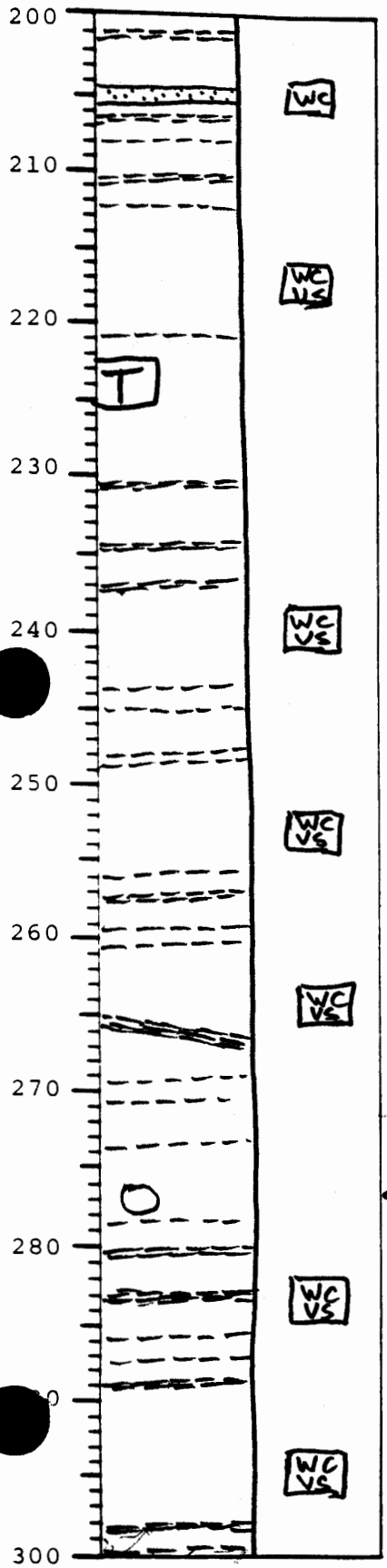
N. Kenyon

F-4-90

Sta. _____ Core No. PC4

Lithologic Log

(cm)



Detailed Description

dk. gy. bd.

← 1cm Thick olive gray silty layer

dk. gy. bd.

dk. gy. bd.

dk. gy. bd.

repeated layers of dark gray, pale brown (5YR 5/2) and dark yellowish brown (10YR 4/2) clay. Colour bands are up to 5cm thick.

dk. gy. bds.

dk. gy. bd. - mottled

← void/lump of clay?

dk. gy. bds.

dk. gy. bds.

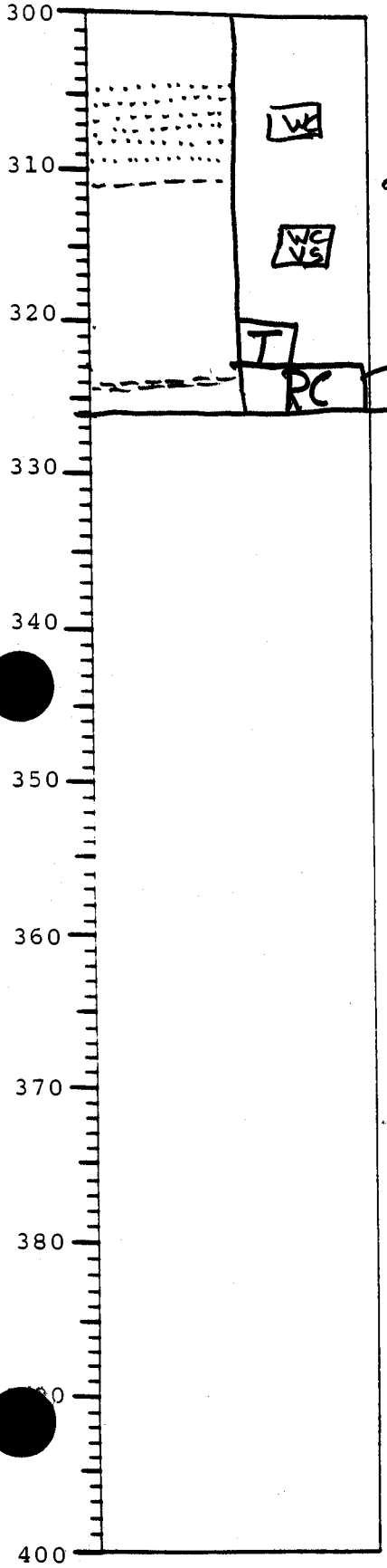
VISUAL CORE DESCRIPTION

N. Kenyon

F-4-90

Sta. _____ Core No. PC4

Lithologic Log



Detailed Description

305-309 olive gray silty clay laminae (approx. 25 laminae in 4cm

dk. gy. bd.

As above i.e. repeated layers of dark gray pale brown and dark yellowish brown clay.

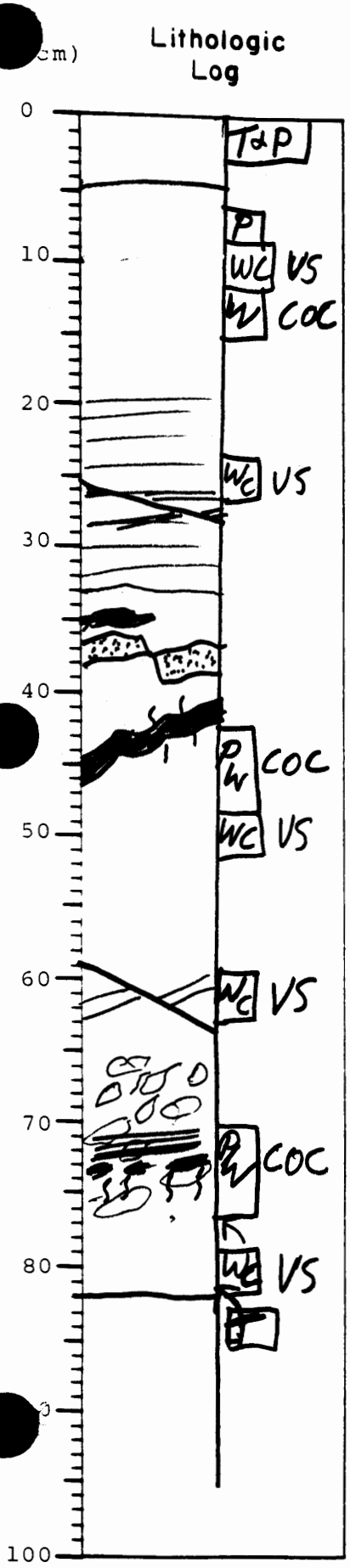
for possible whole sample RCdate

bottom of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. 7 Core No. PC 7



Detailed Description 0–

Clay 0-33

0-4 - Dusky yellowish brown (10 YR 2/2)

4-27 slightly grayer

27-33 yellowish brown again

35-80 = Olive gray 5 Y 3/2

36-39 fine - medium clean silt
no ash layer
bisected

20-30 above " silt has good parallel color lam

33 cm = color contact possibly Holocene to Pleistocene break

35 dark layer

39 to 70 cm - subtle color changes
suggest chaotic bedding
and disturbance - faults

small normal fault here, @ silt & in yellow
clay @ 25 cm

70 - bottom appears to have flat lamination

74 - dark organic band

End of Core tube section

Homa - sampled every 2 cm for WC

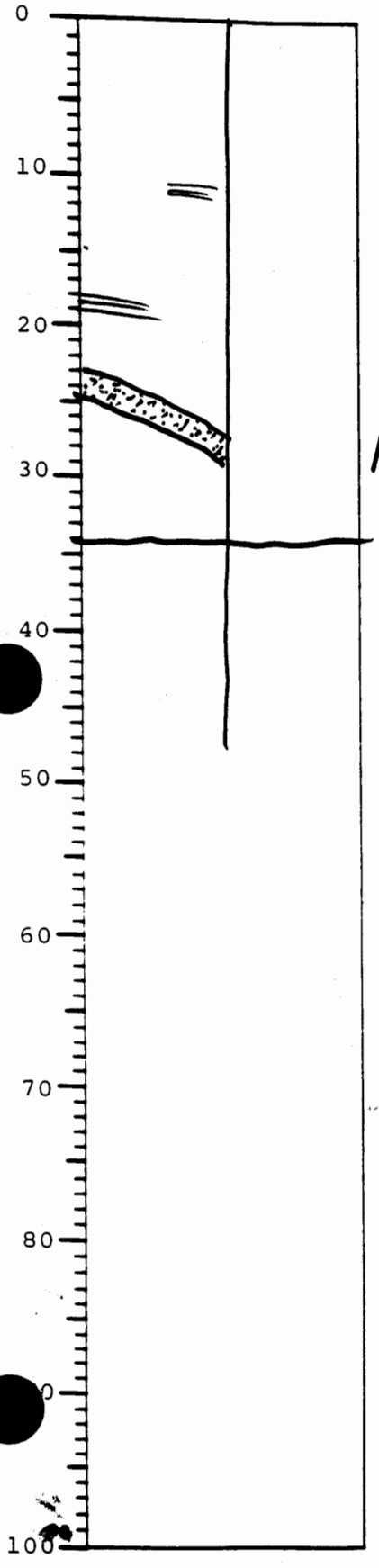
VISUAL CORE DESCRIPTION

F-4-90

Sta. 7 Core No. TC-7

CHN logged

Lithologic Log



Detailed Description

0-10 cm Dusky yellowish brown (10YR 2/2) clay w/out any apparent 88's sand

10-34 = Olive gray clay (quite stiff) several partial gray-black bands of color in generally stiff clays

1½ cm thick clean medium silt layer at an angle to the core

End of core

Note that trigger core is compressed cf. to PC

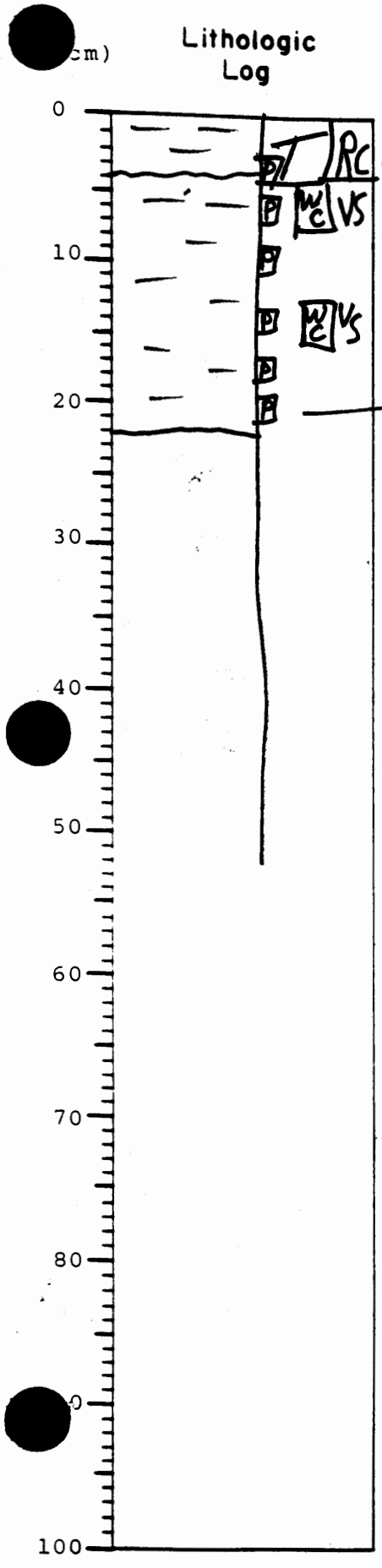
i.e. silt in TC ≈ 25 cm

+ in PC = 38 cm

VISUAL CORE DESCRIPTION

F-4-90

Sta. 10 Core No. TC-10



Detailed Description

0-4 Yellow brown ooze - cut w/ hacksaw
+ plastic fragments are included
(Scrapped away " " + took clean clay for date
4-22 cm olive gray clay with faint black blebs

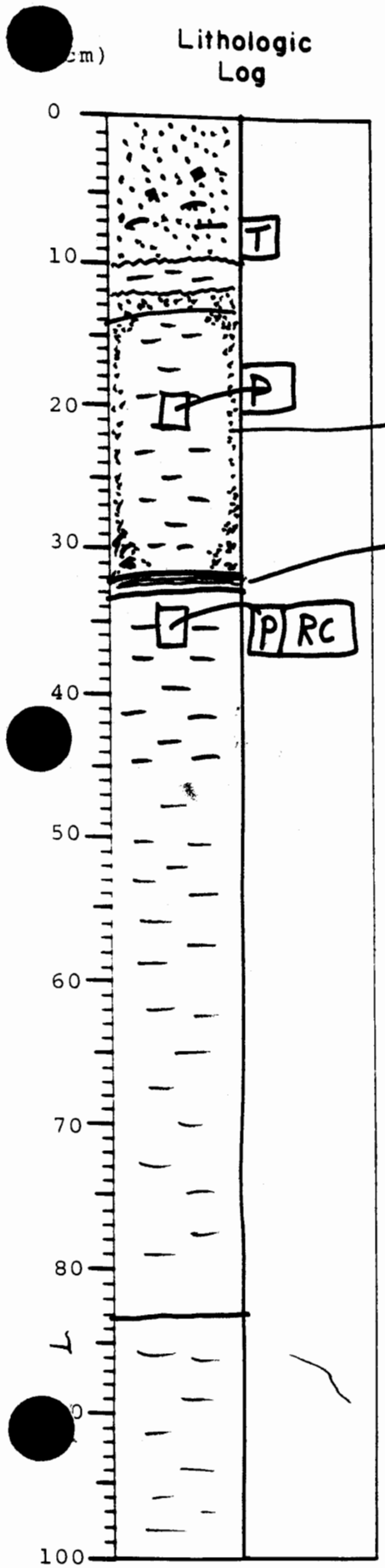
detailed paleo samples to check for G. menardia + Holocene contact

Paleo samps 3-4 cm
4-5
5-6
7-8
9-10
19-20

VISUAL CORE DESCRIPTION

F-4-90

Sta. 9 Core No. PC 9



Detailed Description

0-10+ Clean ~~&~~ sand w/ shell fragments + black Mn crust fragments up to 3-4 mm
- Sand may have been washed by water cleaning out clay matrix

14-32 cm fine unconsolidated Dark Yellowish brown 10YR 4/2 ~~&~~ sand appears to have washed down barrel around Holocene hemipelagic clay

Possible Holocene to Pleistocene break

32-33 Moderate yellowish brown 10YR 5/4 iron stained & laminated fine silt bed

33-83 - Olive gray ~~clay~~ 5Y 3/2 Pleistocene(?) and dusky yellowish brown 10YR 2/2 banded clay. Repeat colour bands are approx. 1 cm to 5 cm apart.

Bottom of Top Core Section

VISUAL CORE DESCRIPTION

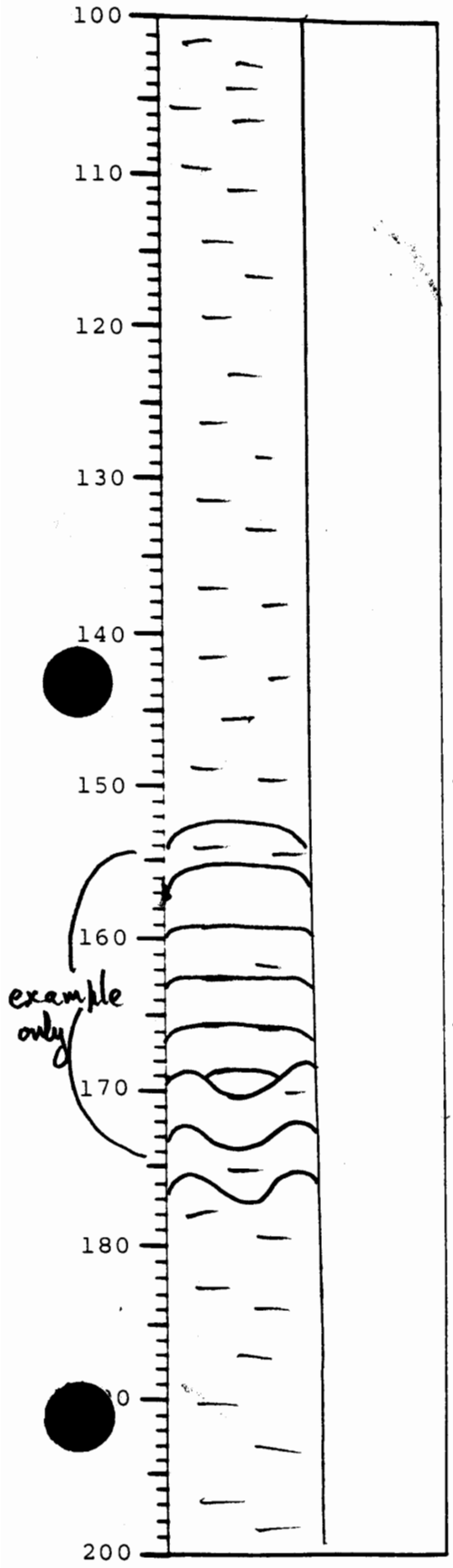
N. Kenyon

F-4-90

Sta. 9 Core No. PC9

Lithologic Log

Detailed Description



Bands of olive gray and dark yellowish brown clay. Spacing of colour band "couplets" is about 1cm to 3cm.

Layers are bent down at edges above here

Possible reperetration below here?

Layers are bent down at edges and in centre below here

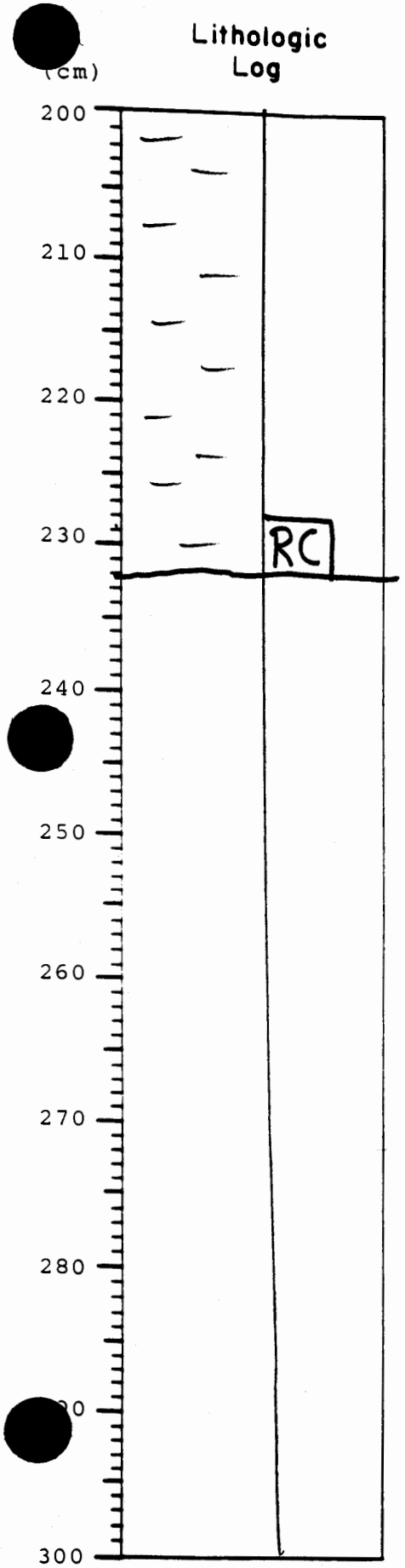
160-200cm Finely banded <1cm spacing - same colours as above.

VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC9



Bottom of Core

Detailed Description

200-229 cm. Apparently unbanded olive gray clay

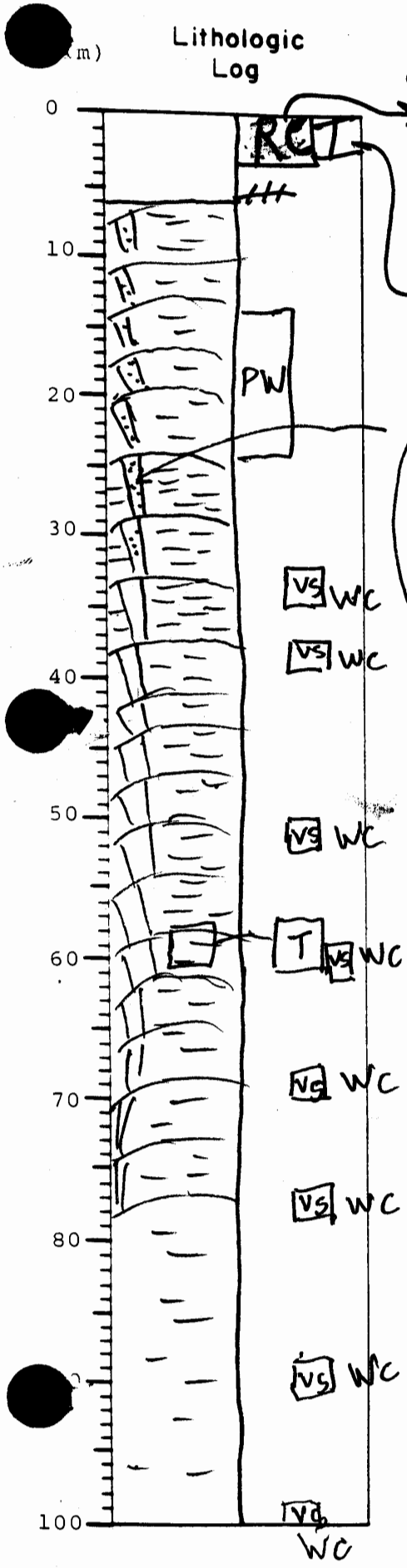
229-232 Banded clay

VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC10



Detailed Description

Core smelt of sulphide on opening

From PC+TC

RC/or look carefully for presence of Globorotalia Menardii

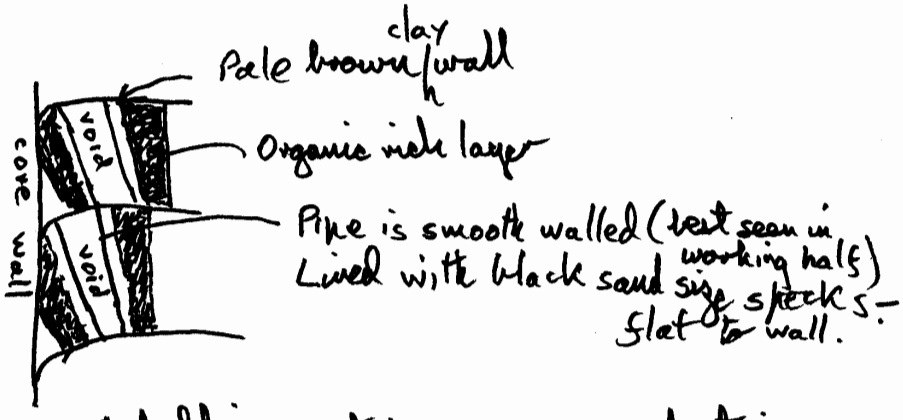
0-6cm Dark yellowish brown 10YR 4/2 soft, watery mud

The texture sample was taken from TC10 which had the same stratigraphy top

- Close up slides by CHN

Continuous void running whole length of section. Broken up into offset segments by movement along bedding planes*. Diameter up to about 2cm - usually less. Partly filled with muddy foram. rich sand in upper 36cm. + black Mn crusts in sporadic pieces along tube

6 - 100cm. Banded stiff clay. Pale brown and dusky yellowish brown (5YR 5/2 and 10YR 2/2) together with black, mottled bands. Thickness from c. 1cm to 13cm



* Shear of bedding must happen on penetration. Thus pipe must pre-exist coring. Mottled black horizon must originally be concentric to pipe.

Check P.P.E. Weaver et al. Nature circa 1986-7 On burrows - deep in p. cores.

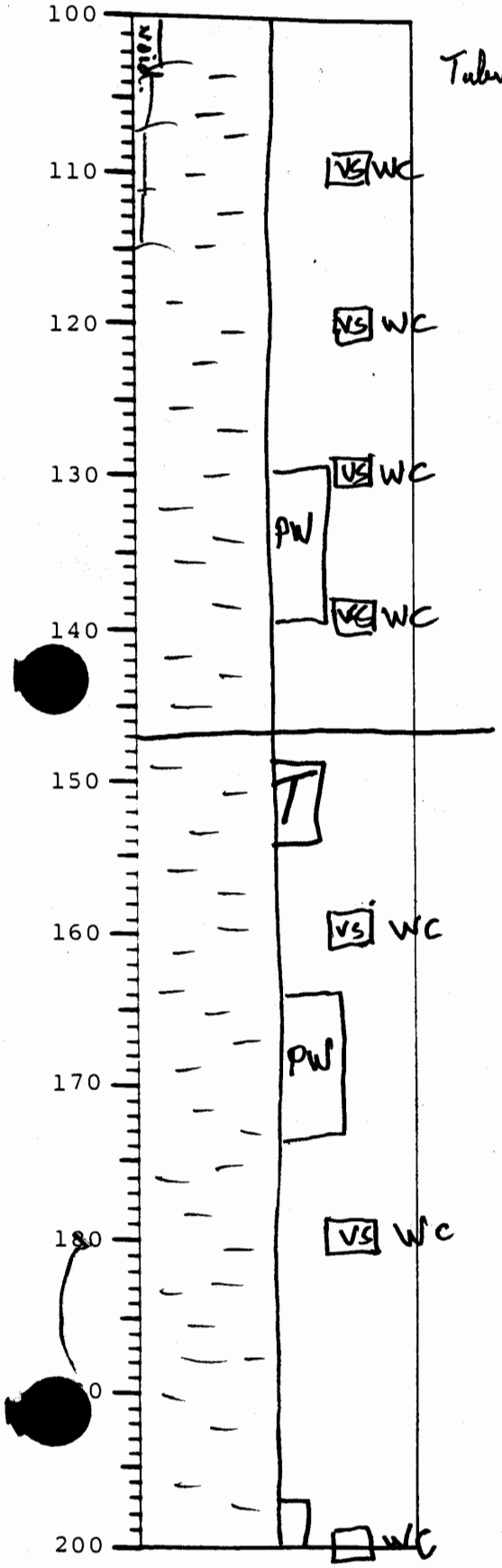
VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC10

Lithologic Log



Detailed Description

Tubular void - down to 150cm. plus but running along liner. below 100cm. last block remnants run from 147-167 - only block can be observed ie no Mn or Co like sfc opening - Close up slide by CHN

100-160cm few obvious bands. Dusky yellowish brown clay.

Boundary of section

160 -200 cm. Banded clay. Dusky yellowish brown 10YR 2/2 and pale brown 5YR 5/2 Repeat pattern. Also dark gray mottled bands (usually within pale brown band)

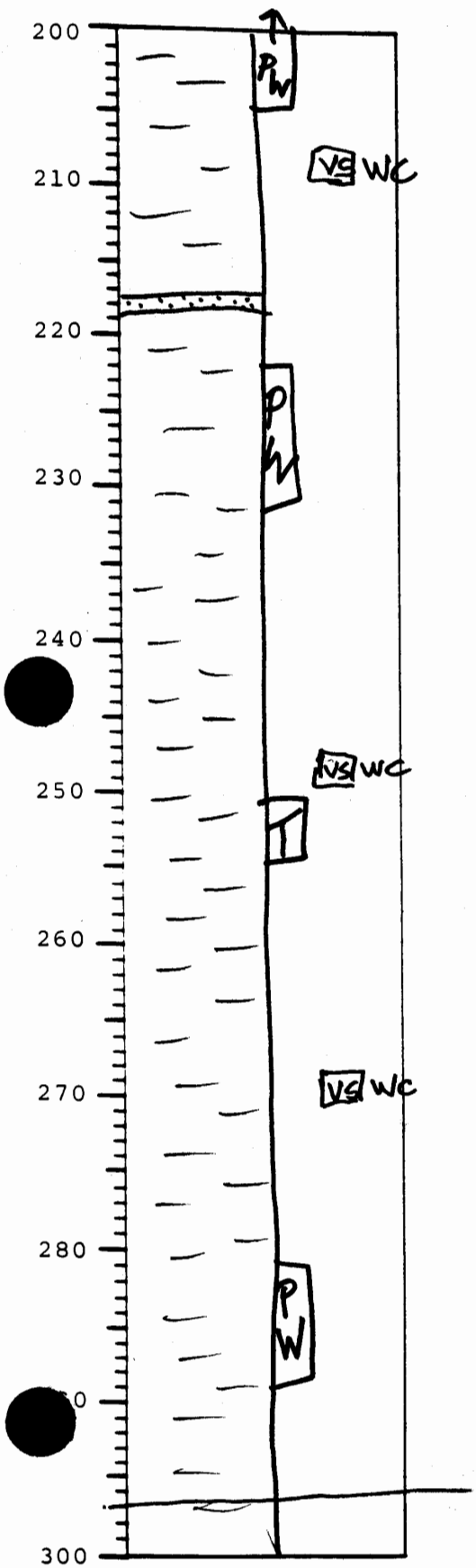
VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC10

Lithologic Log



Detailed Description

200-300 Banded clay. Dusky yellowish brown 10YR 2/2 and Pale brown 5YR 5/2
Also dark gray mottled bands

217.5-218 Silt band.

Repeat patterns of bands are between about 0.5cm and 16cm thick.

Boundary of sections.

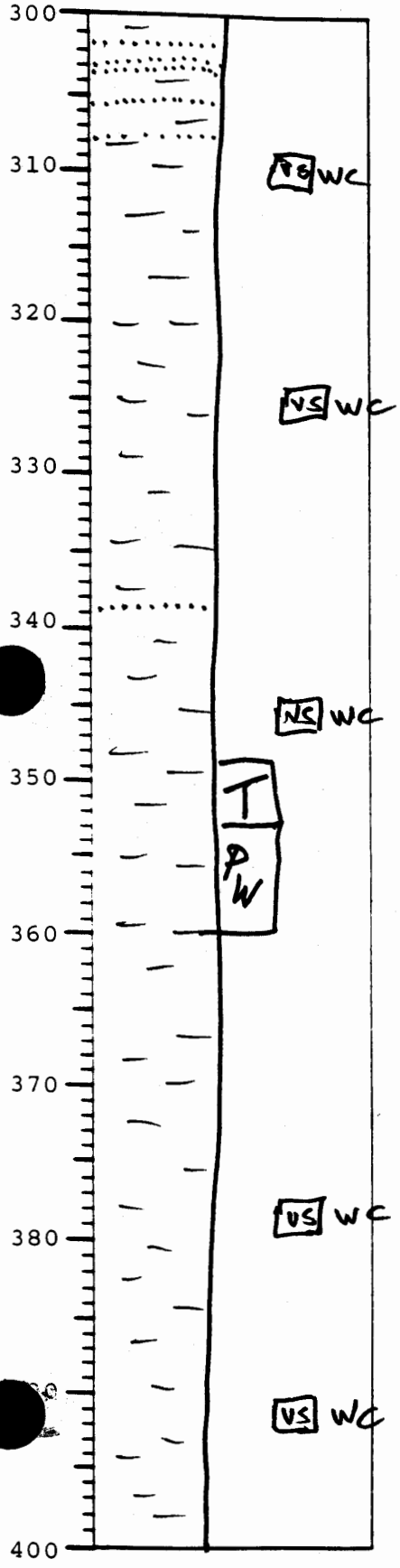
VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC10

Lithologic Log



Detailed Description

silty laminae - up to 0.2cm thick

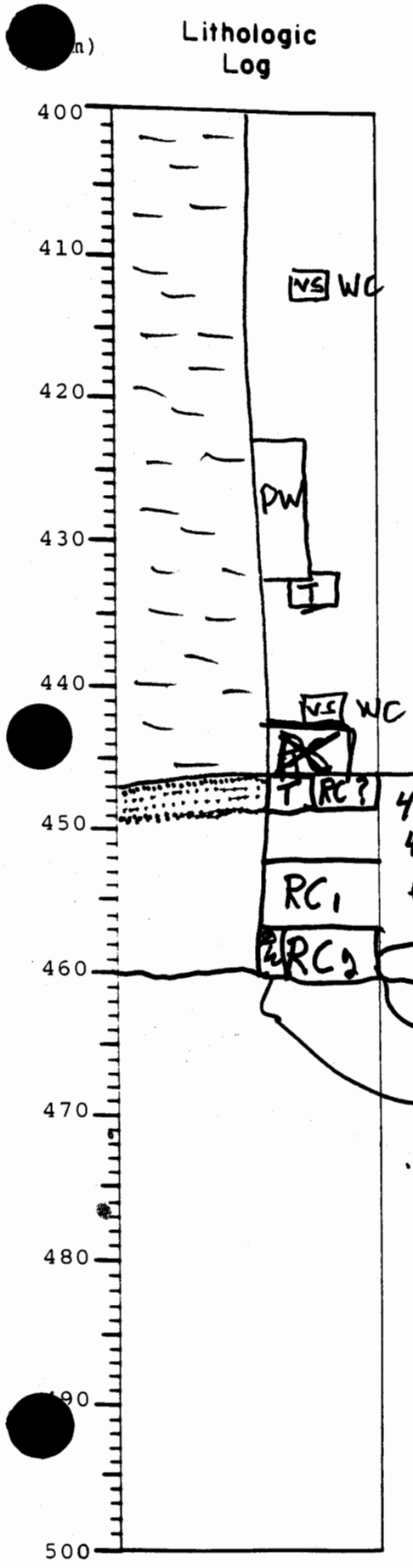
Banded clay. Dusky yellowish brown 10YR 2/2 and pale brown 5YR 5/2. Dark, mottled bands up to to 1.5cm thick. Colour "couplets" have max. thickness of 13cm.

VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon

Sta. _____ Core No. PC 10



Detailed Description

Banded clay. Dusky yellowish brown 10YR 2/2 and Pale Brown 5YR 5/2. Plus dark mottled bands

Bottom of core.

447-449 series of medium silt laminae

449-460 olive gray mud

for whole sample date

if additional material is needed

Bottom of core catcher if

core catcher

Pore water sample taken out of very bottom & remainder kept for RC backup

Nearly all of core catcher samp. used up.

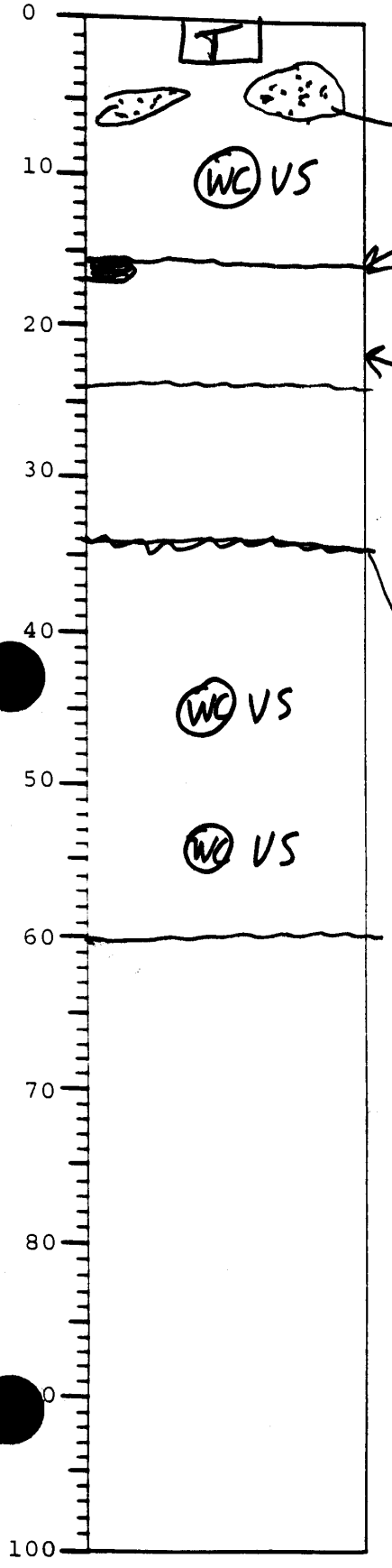
VISUAL CORE DESCRIPTION

F-4-90

Sta. 11 Core No. TC11

CHN 109

(cm) Lithologic Log



Detailed Description

0-16 cm Dark Yellowish brown clay 10YR 4/2
muddy sand blebs

gradational Contact

16-17 cm oxidized, slightly indurated fine, silt layer
(10Y 4/1 moderate brown)

lt Olive gray clay 16 - 24

24-35 Dark Yellowish brown clay
section repeated - double cored

Transitional boundary

35-60 = all olive gray clay
homogenous

Top T sample here because
missing from PC

VISUAL CORE DESCRIPTION

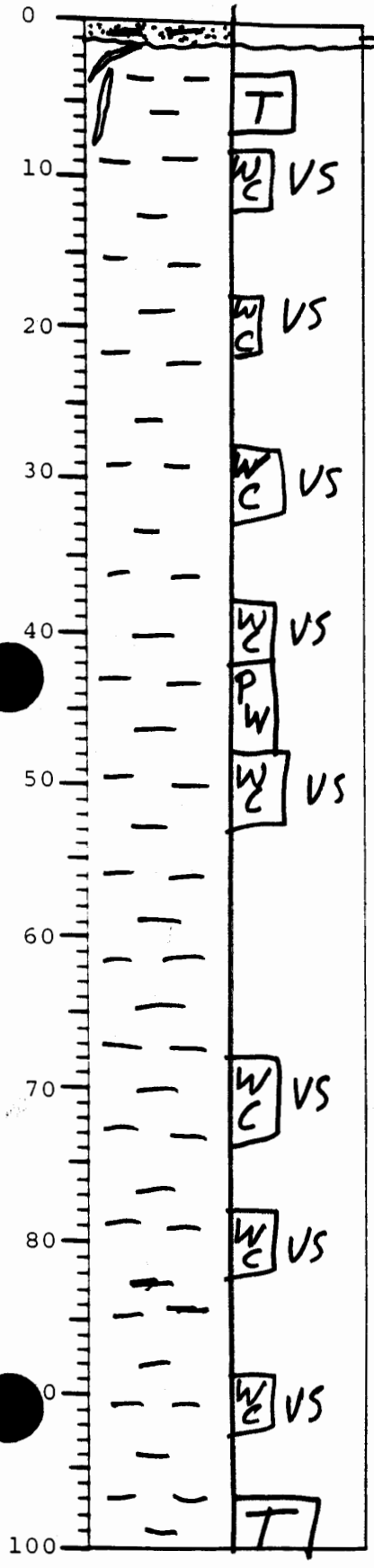
F-4-90

Sta. 11 Core No. PC 11

CHN log

1 section only

Lithologic Log



Detailed Description

1cm cap of dark yellowish brown (10YR 4/2) clay w/ 80 sand

(Missing most of Holocene from this core – see TC log for first 16 cm that are missing here

Mn crust w/ black bottom half facing the Pleistocene mud black & top side red oxidized facing the Holocene with possible ripple topog.

May be some manganize filled 80s w/in

Black color = Dusky Brown (5YR 2/2) changing to green w/ air (H olive gray 5Y 5/2)

Oxidized (ripple side) = 10YR 5/4 & 5Y 4/4 variagated colors (moderate yellowish brown & (moderate brown)

oxidized side develops hexoganal dessication cracks – don't know if occurred prior to drying in the labratory

2 – 100 cm – homogenous olive gray clay (5Y 3/2)

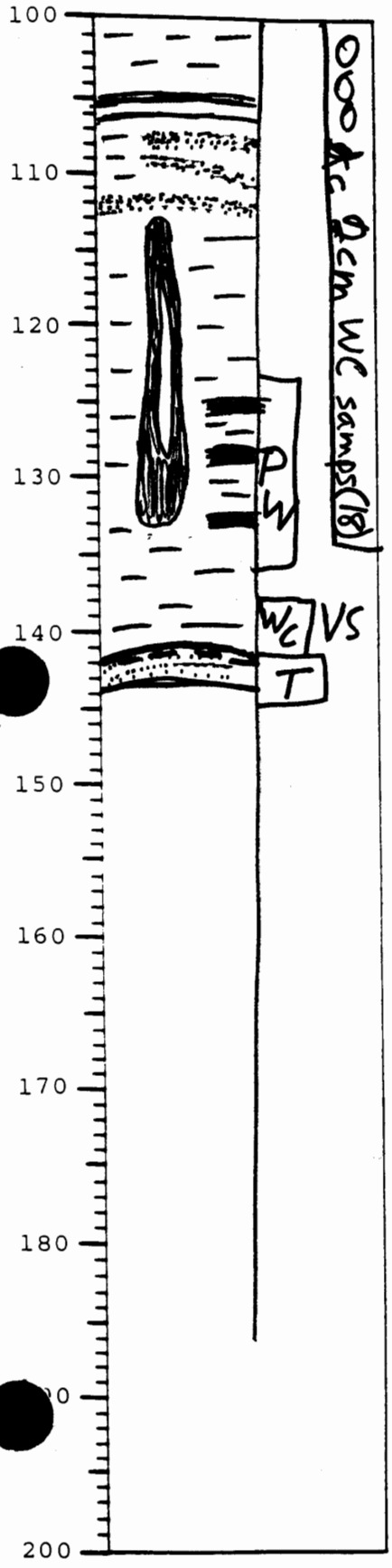
Rare black flecks

Top T Sample from TC 11

Sta. 11 Core No. PC 11

CHN logged

Lithologic Log



Detailed Description

-100-144 all olive gray clay with occasional 1cm silt laminae below 1m depth

-105+106 black bands

-114-134 large black burrow w/ hollow center only main bioturbation observed so far in all cores in olive gray clay

photos (CHN slide closeups) of burrow

-107-114 silt (clayey) laminae w/out clayer

142-144 silt laminae capped by black top lamina

144cm = end of core section

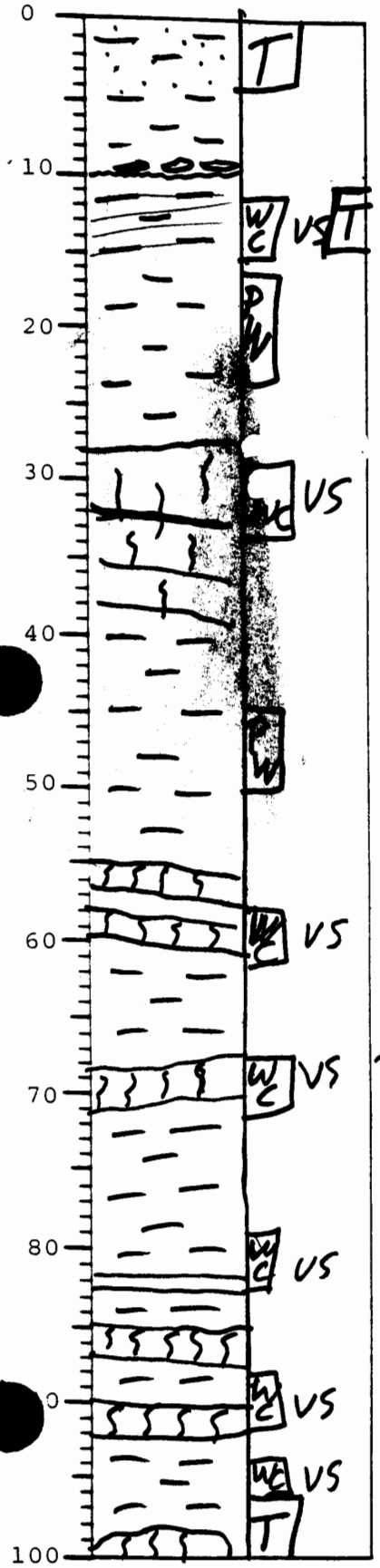
VISUAL CORE DESCRIPTION

F-4-90

Sta. 12 Core No. PC12

330 cm

(cm) Lithologic Log



Detailed Description

0-10 8 rich clay (dark yellowish brown)
10cm to end = all
@ boundary w/ olive gray clay some oxidized crust fragments occur
Olive-gray clay has some lamination that is very faint

End of first section

Faint subtle brown laminations
but bioturbated w/ small burrows between & darker units

40-55 homogenous gray clay

55-70 darker bands w/ intense bioturbatio
faint thin brownner lam. inbetween

Between bioturbated bands = homogeneous clay

83 - brown laminations

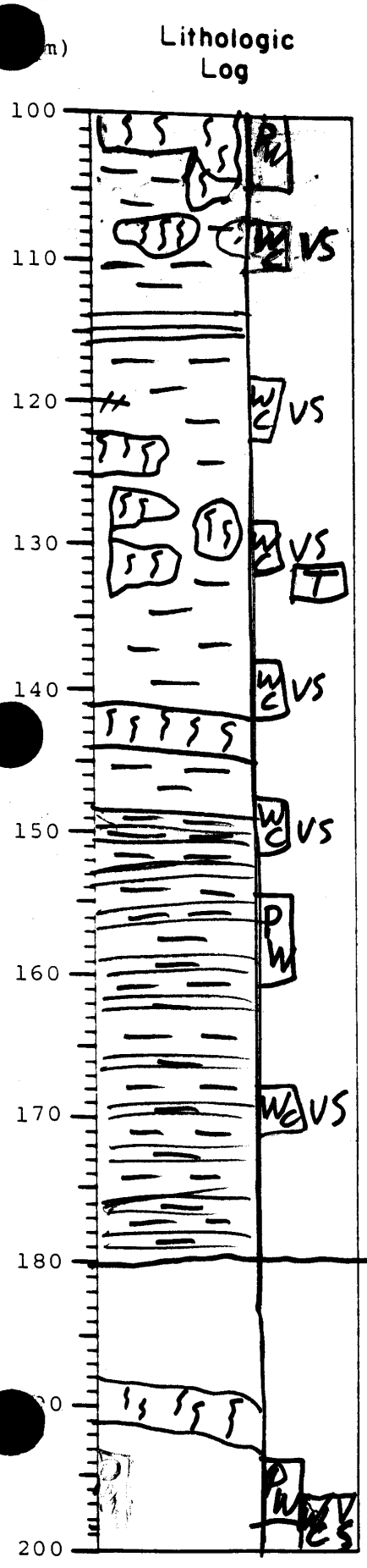
85-87 } dark highly bioturbated bands
90-92 }

98 - 111 irregular patches of bioturbated dark bands

VISUAL CORE DESCRIPTION

F-4-90

Sta. 12 Core No. PC12



Detailed Description

entire section clay w/ no silt laminations

114-118 brown lamations of clay

127-135 Dark bioturbated patches

T in dark band

141-144 Dark band w/ bioturb. (Olive Black 5Y 2/1)

brown laminations

Remainder of section faint parallel dark & brown layers & apparent lack of bioturbation (Grayish brown 5YR 3/2)

End of section

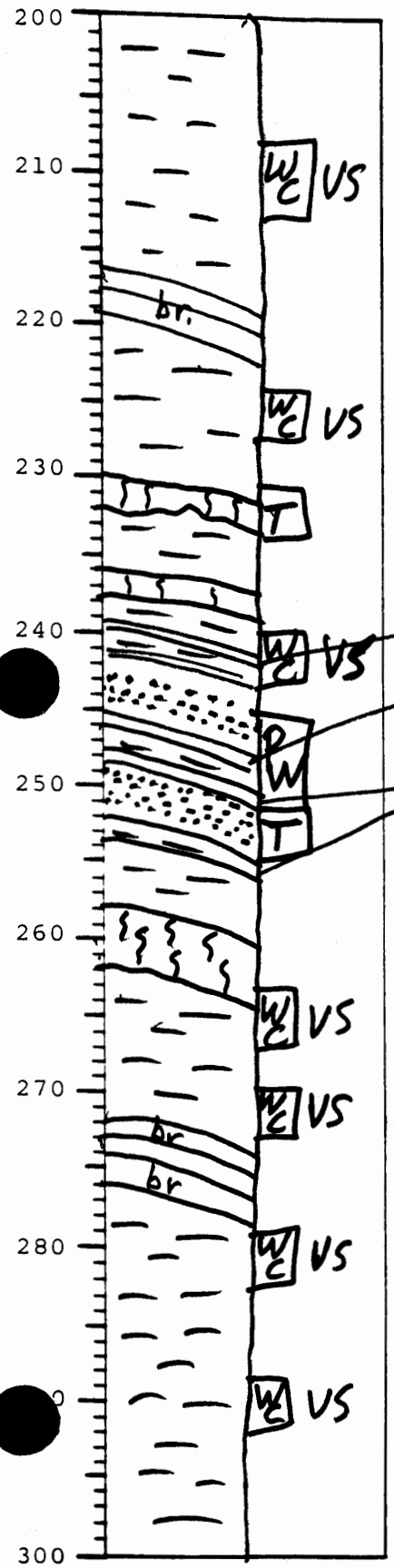
Bioturbated dark band 188-191

VISUAL CORE DESCRIPTION

F-4-90

Sta. 12 Core No. PC12

Lithologic Log



Detailed Description

218-220 Brown bands (Grayish brown 5YR 3/2)

{ thin brown bands

olive gray bands (5Y 4/1) above & below silt bed

245-246 } fine silt laminae
251-253

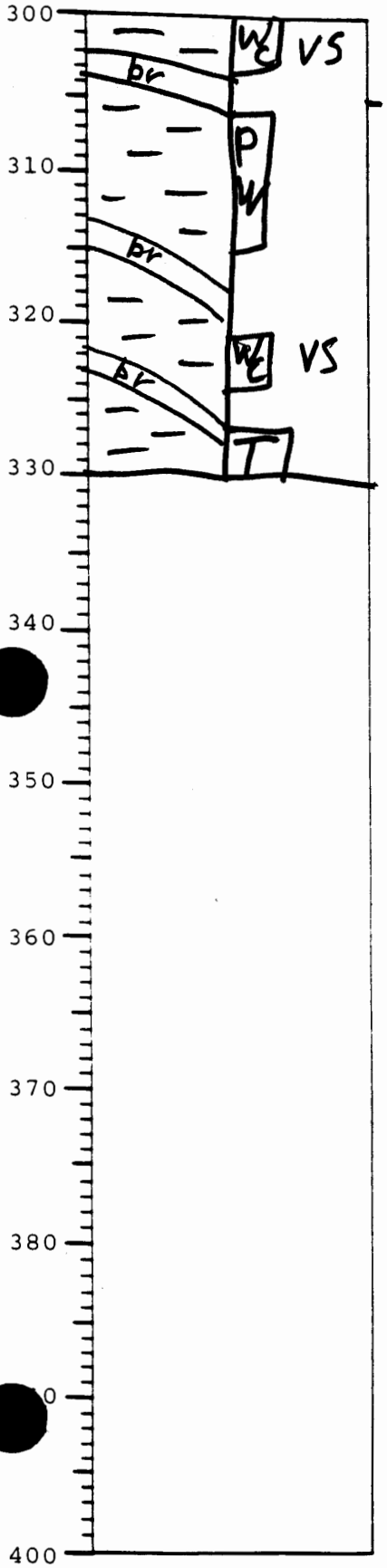
270 to 330 no more dark bioturbated bands
Thick 1-2cm brown color bands
& apparent lack of bioturbation

VISUAL CORE DESCRIPTION

F-4-90

Sta. 12 Core No. PC 12

Lithologic Log



Detailed Description

Subtle color bands of brown

end of section

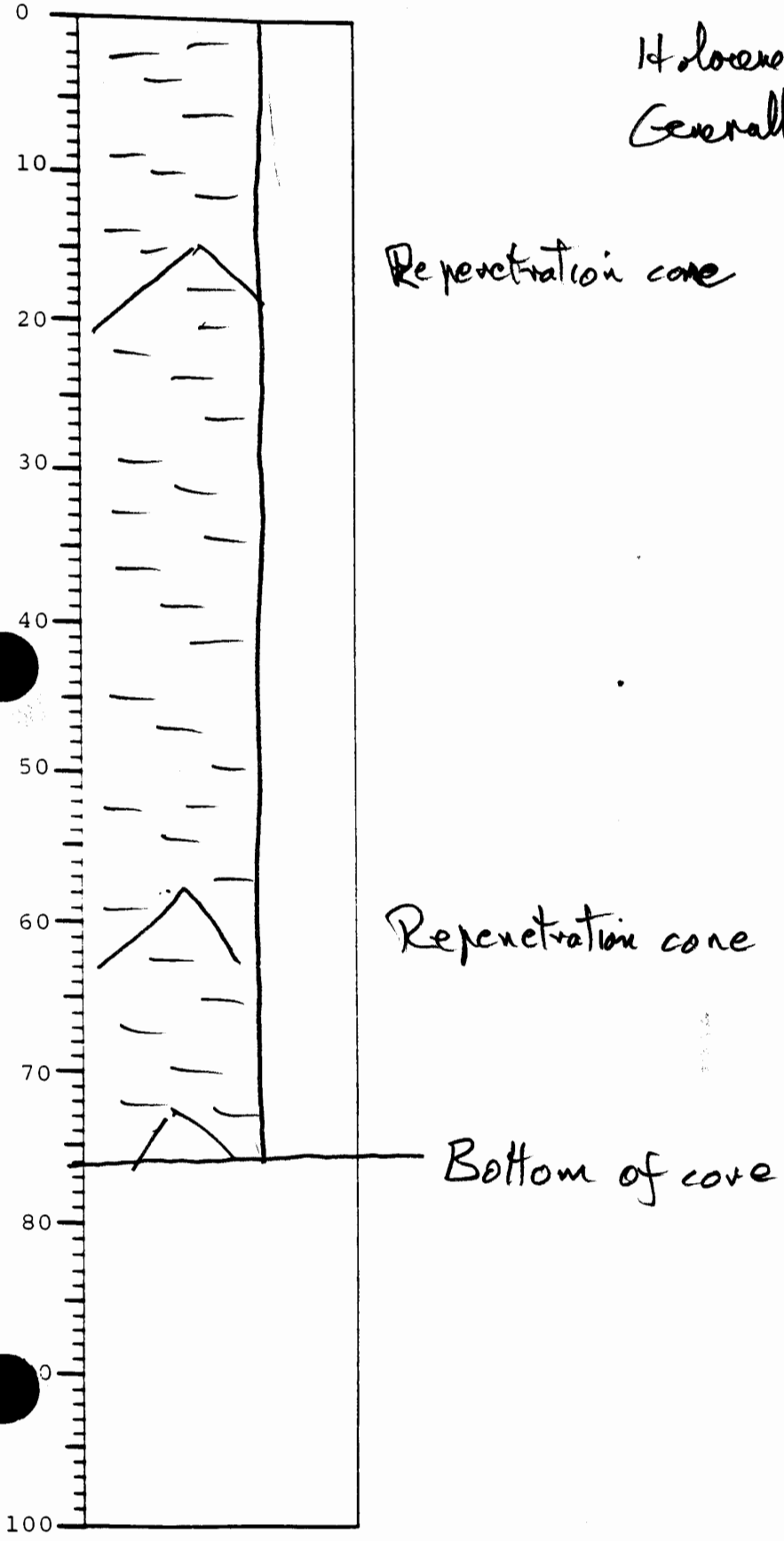
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC 12

(cm)

Lithologic Log



Detailed Description

Holocene pelagic missing
Generally useless.

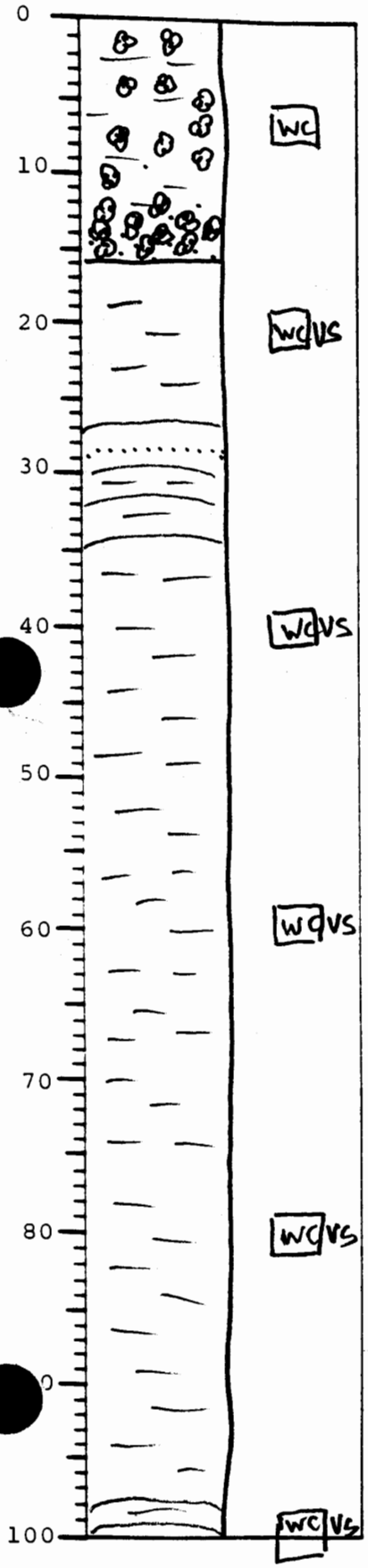
0 - 76 Olive gray clay
Some faint bands - fine scale.
Generally structureless.

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC14

(cm) Lithologic Log



Detailed Description

0-16 Moderate brown 5YR 4/4 wet mud with forams concentrated especially at 14-16 cm.

16-17 Dark yellowish brown 10YR 4/2 clay with indistinct boundary

27-35 Faint banding

17-155 Stiff clay. Olive gray 5Y 4/1 to dark yellowish brown 10YR 4/2
Banding is faint or not seen

58-64 Faint banding.

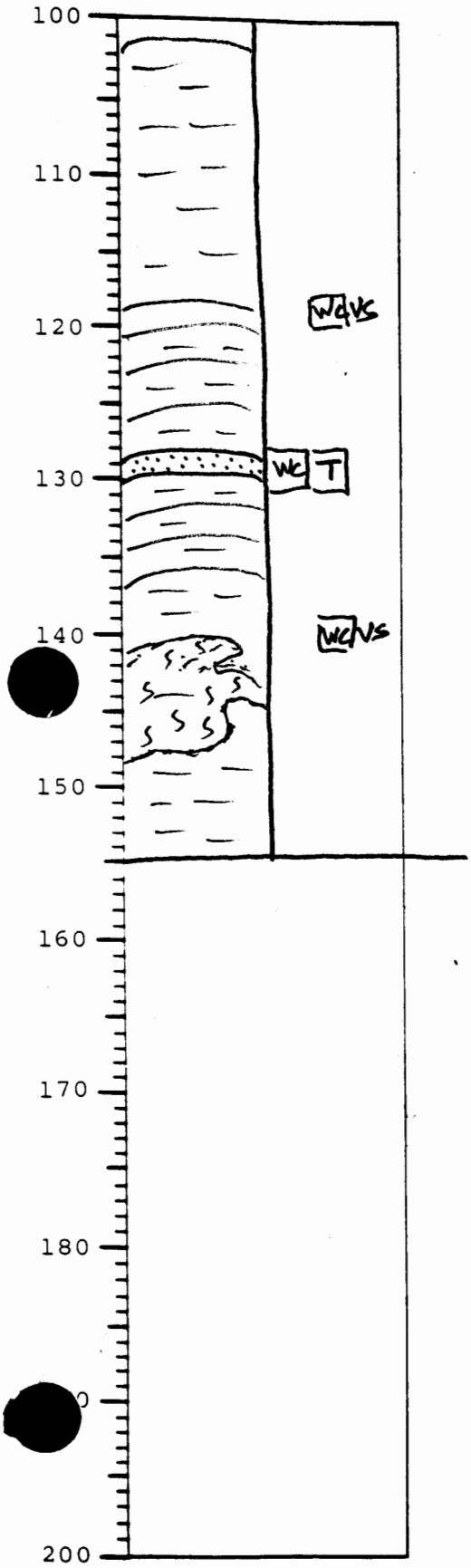
98-102 Faint banding

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC14

Lithologic Log



Detailed Description

119-137 Colour bands. Dark yellowish ~~gray~~ brown, brownish gray

129-130 Olive gray silt

141-144 Possible bioturbation producing irregular boundaries

Bottom of core

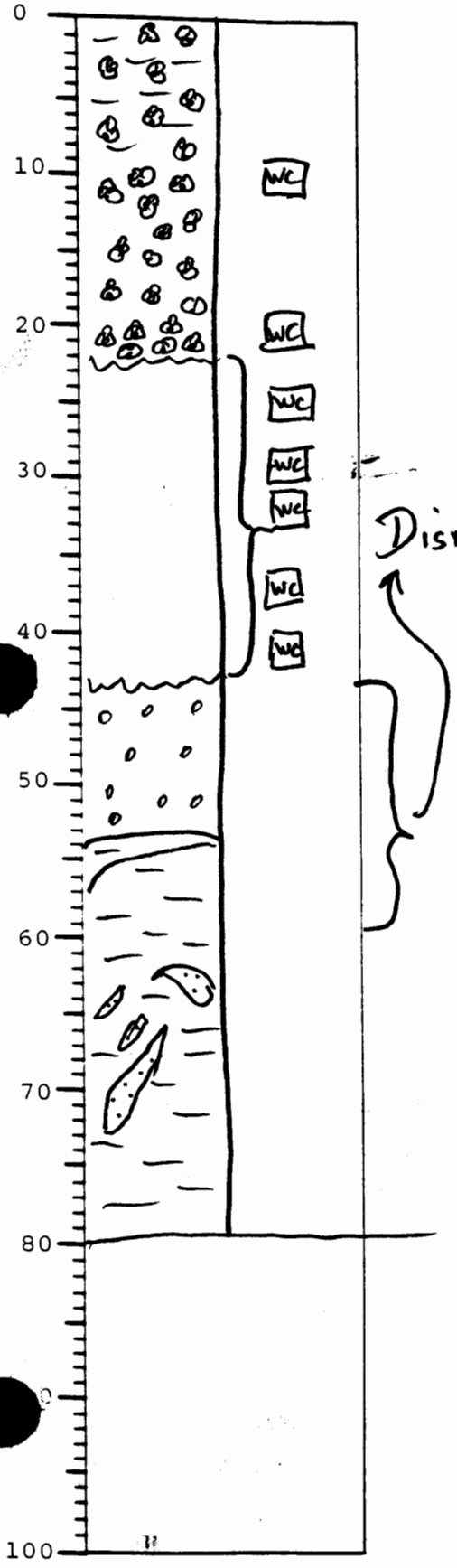
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC16

Kenyon logged

(cm) Lithologic Log



Detailed Description

Note Trigger core bounced & repeated @ least 2-3 times

0-22 Foram sand, muddy towards top

Disregard - repeated 45-65 for sure - not sure about upper part

43-54 Foram sand
47-50 Gray, mottled sand
50-54 Yellowish gray sand. Some graded bedding.
54-57 Moderate yellowish brown clay
56-57 Iron stained band - ? slightly silty looking
57-80 ~~Dark g~~ Dusky yellowish brown clay. Homogeneous
Gray silty clay in burrows.

Suspected debris flow deposit

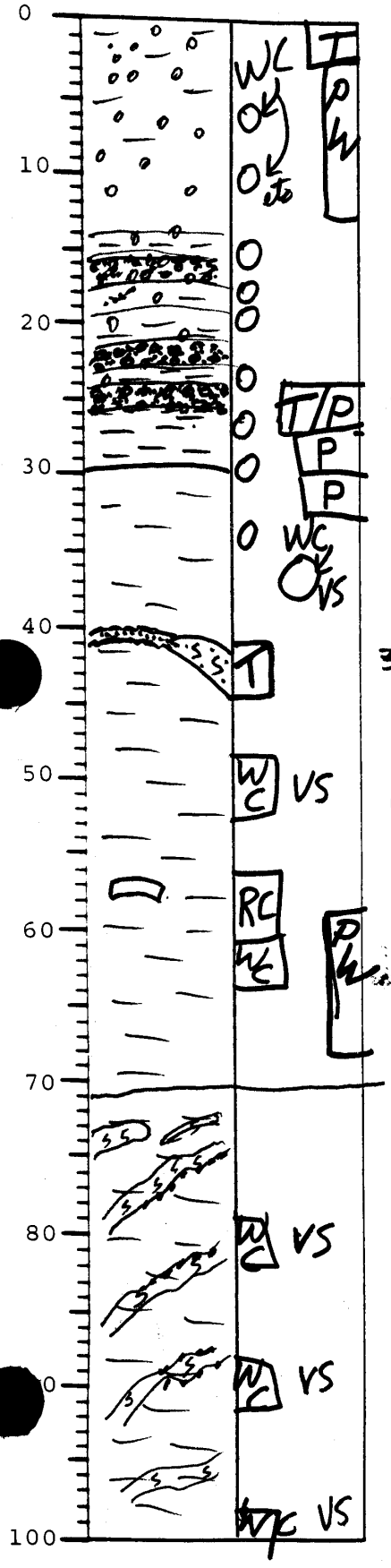
VISUAL CORE DESCRIPTION

F-4-90

N. Kenyon
Nelson has detailed slides of 1st. M.

Sta. _____ Core No. PC 16
Kenyon/Nelson

Lithologic Log



Section Boundary

Detailed Description

0-26 Foram. sand. Grayish orange 10YR 7/4 with bands of yellowish gray 5Y 7/2

14-26 Bands of muddier sand ? current bedding in white clean ⅝ sand (Pale yellowish brown 10YR 6/2)

26-29 Moderate yellowish brown clay, 10YR 5/4

29-30 Iron staining in clay - sharp base, diffuse top. Moderate brown 5YR 4/4 partly indurated like other cores

Possible Change to pleistocene

30-71 Dusky yellowish brown 10YR 2/2 clay. Homogeneous with many small voids

~~30-71~~ Dark gray muddy ~~sand~~ silt fills burrow or silt layer that is bioturbated

Samples @ Contact for paleo differences (+ monarch) geochem dif, + Tex

Piece of wood ? - sample taken from both working and archive

Close up photos of TC + PC by CHN

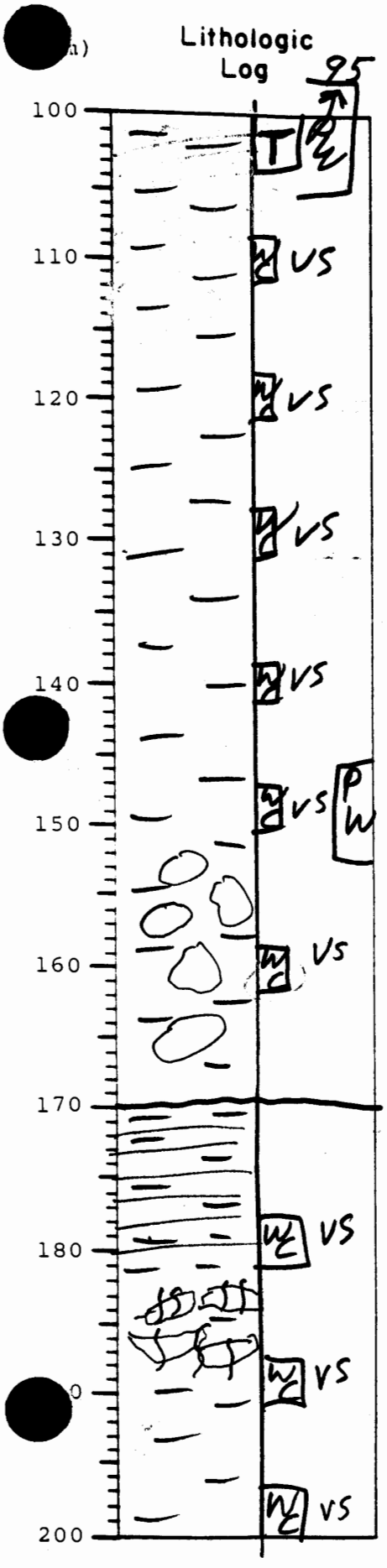
From 43 cmt to 318 all clay
Dusky yellowish brown clay with dark mottled clay filled burrows

70-90 cm faint 1mm disrupted Silt lam.
- silt layer at 40 to 43 must be a bioturbated layer because it's found at the same stratigraphic horizon in TC+PC

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC-16



Detailed Description

Beyond 90 cm only 1-2mm silt blebs rarely occur & probably completely bioturbated

Same yellow-olive gray clay exist for entire core after first 30cm

150-170
Faint burrow mottling observed

End of section 2

170-185 very faint lamination in clay

185-188 " " bioturbation of clay band

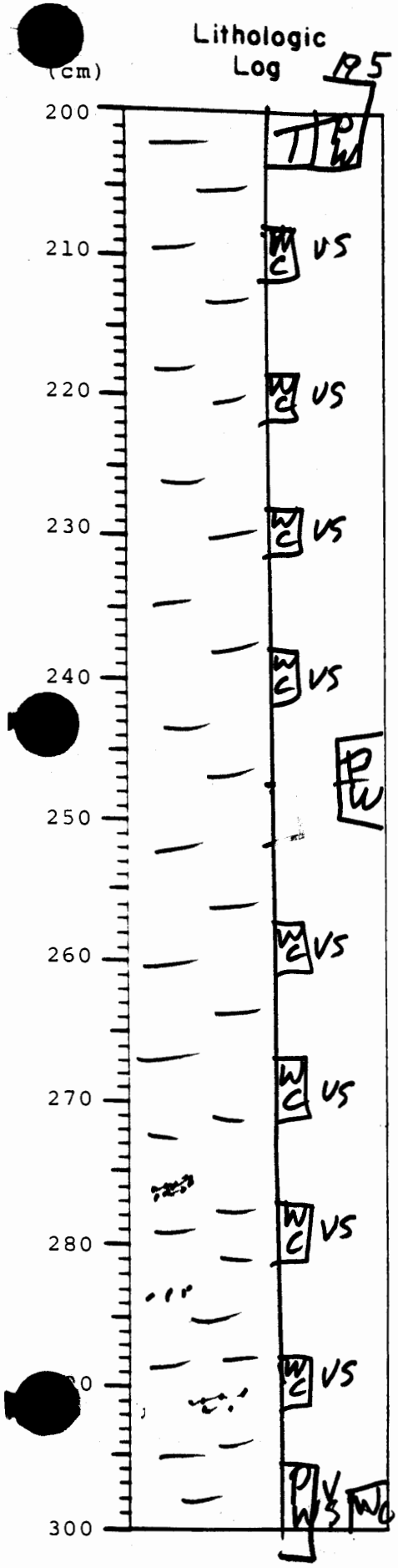
190 to end of core = homogeneous clay that appears to be completely bioturbated but only faint burrows can be observed

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC16

Lithologic Log



Detailed Description

275-295 1-2 cm long ≈ horizontal silt blebs

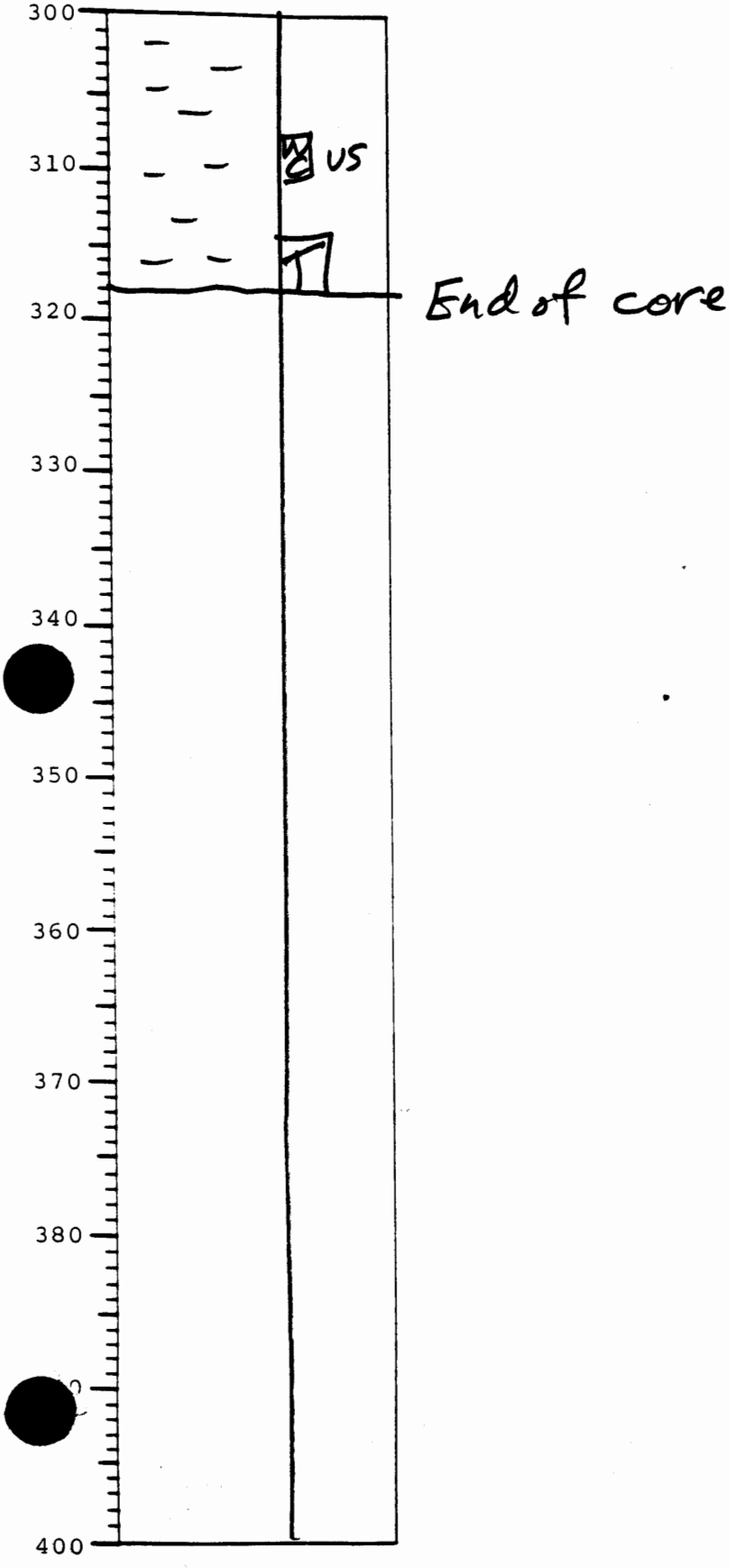
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 16

Lithologic Log

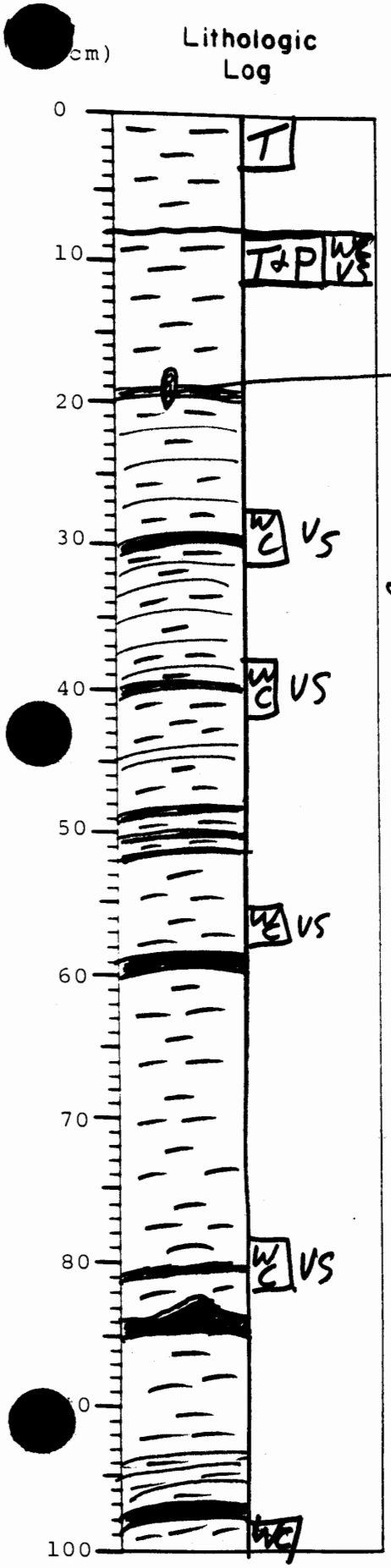
Detailed Description



VISUAL CORE DESCRIPTION F-4-90 Page 1 of 2

Nelson has detailed slides also

Sta. _____ Core No. PC17



Detailed Description

0-9 cm - dark yellowish brown clay (10YR-4/2)

9-end of core = - rare scattered ☙ but pure ☙ fill burrow @ 20 cm

20-120 cm well laminated layers of olive black bands, dk yellow brown clay (10YR 4/2) (5Y 2/1)

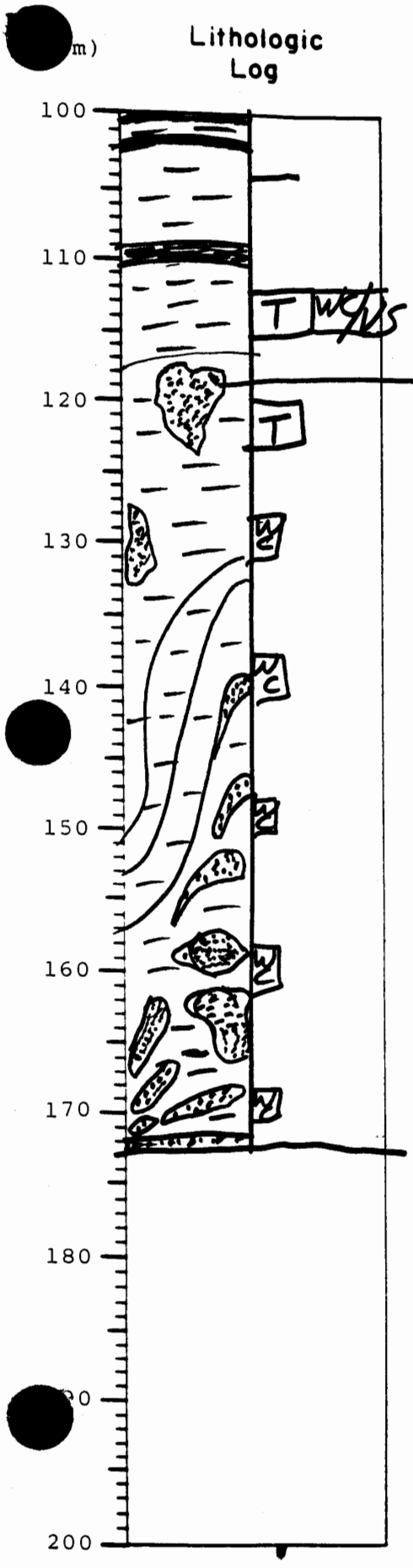
9cm to end of core = dusky yellow brown clay is the main type of clay (10YR 2/2) disru interbedded w/ black & browner bands

- Dark bands typical + ½ 1 cm max
- Brown bands typically 1cm w/ 2cm max

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC-17



Detailed Description

flat dark band

sharped medium silt layer

up to the point of core with flow in detailed water content samples were taken (28 over 110 cm) see Homa log. for specific locations

end of core

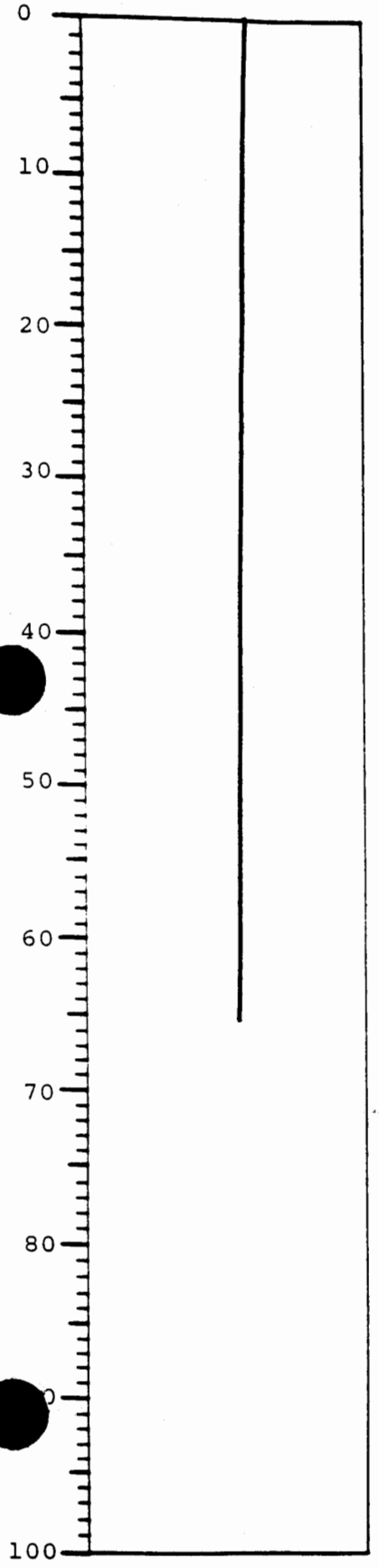
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC17

(cm)

Lithologic Log



Detailed Description

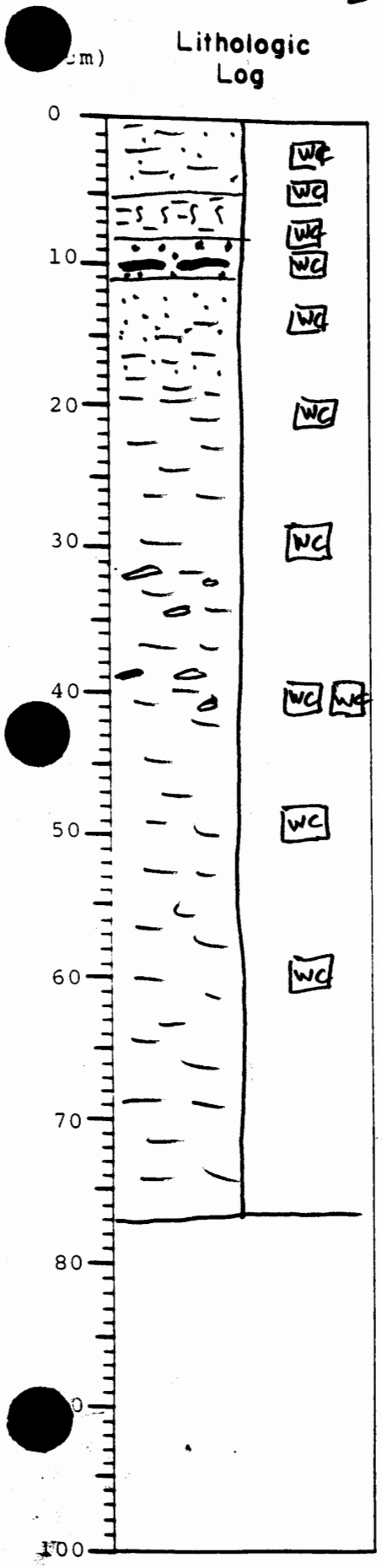
Not cut because had difficulty w/ cutter. Sampling from tube suggests that piston core stratigraphy is accurate

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. TC 18



Detailed Description

At 10 cm, a 0.2 cm thick metallic crust. Very dusky red 10R 2/2

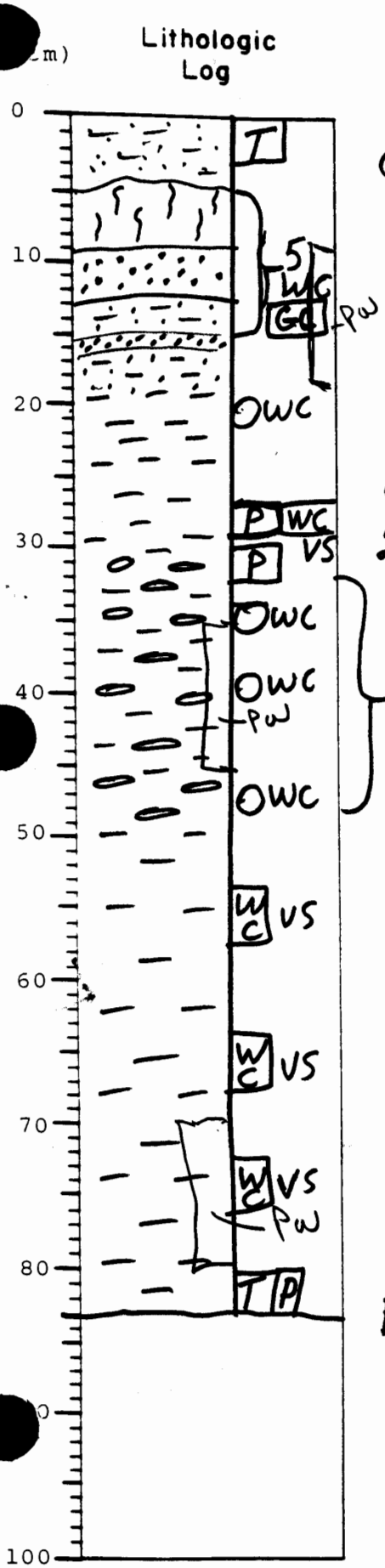
Stratigraphy as PC 18

Less obvious vesicles due to gas discharge than in PC 18

VISUAL CORE DESCRIPTION F-4-90 Page 1 of 1

Nelson - has detailed

Sta. _____ Core No. PC-18



Detailed Description

0-10 Dark yellowish brown (10YR 4/2)

0-5 ∞ ooze

5-10 bioturbated clay

10-13 clean ∞ sand (dark yellowish orange (10YR 6/6)

13-16 ∞ ooze - moderate yellowish brown (10YR 5/4

17 - ∞ sand

17½ - 20 ∞ ooze

20-30 clay starting as dark yellowish brown (10YR 4/2) and grading to olive gray clay (5Y 3/2) for remainder of the core

gas charged clay 30-50 cm

50 cm to the bottom - homogeneous clay

-14 cm oxide crust of 1cm diameter encountered in WC plug

-Sample GC-crust - contains ∞'s w/in crust

Bottom of PC Complete core = 83 cm

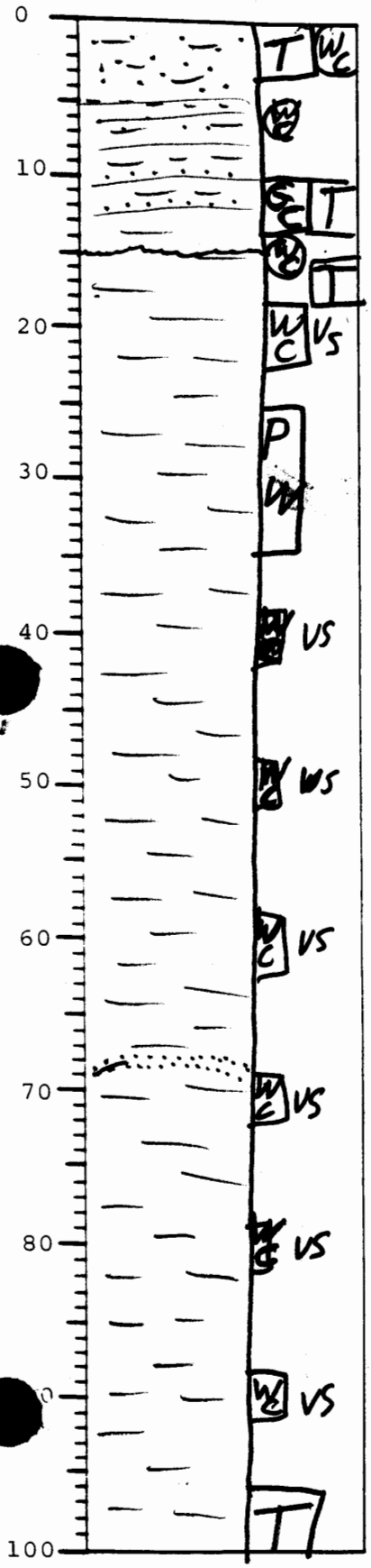
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 19

Lithologic Log



Detailed Description

0-5 Muddy foram sand. Moderate yellowish brown 10YR 5/4

5-13 Laminations of clay and slightly silty? sandy clay
Fe stained. Light brown 5YR 5/6

10-12 = indurated layer
14-16 = gradual transition from oxidized to gray

≈14-100 Gray clay. Fairly homogeneous but some faint colour bands. Dark yellowish gray 10YR 4/2 with gray (organic) bands

68. 2 mm silty laminae

There is a thickening upward sequence for the upper 4 m or so

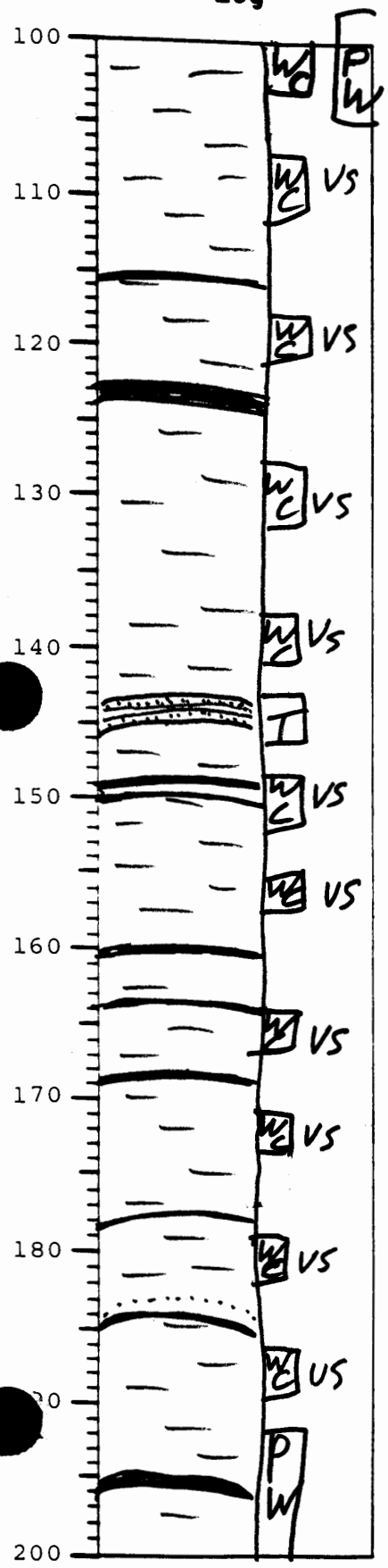
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC19

Lithologic Log



Detailed Description

100-200 Gray clay. Faint colour bands. Dark yellowish gray 10YR 4/2 predominant. Mottled, dark gray, organic rich bands are found mainly within the lighter colour bands. About 0.5 cm thick and on average 6 cm apart.

Dark organic rich bands start about 115 cm

143-145 · Two 0.5 cm silt layers

for T sample silt layer = ≈ .5 cm
∴ there is some clay contamination w/ silt that will affect T analysis

183 Silt lamina

VISUAL CORE DESCRIPTION

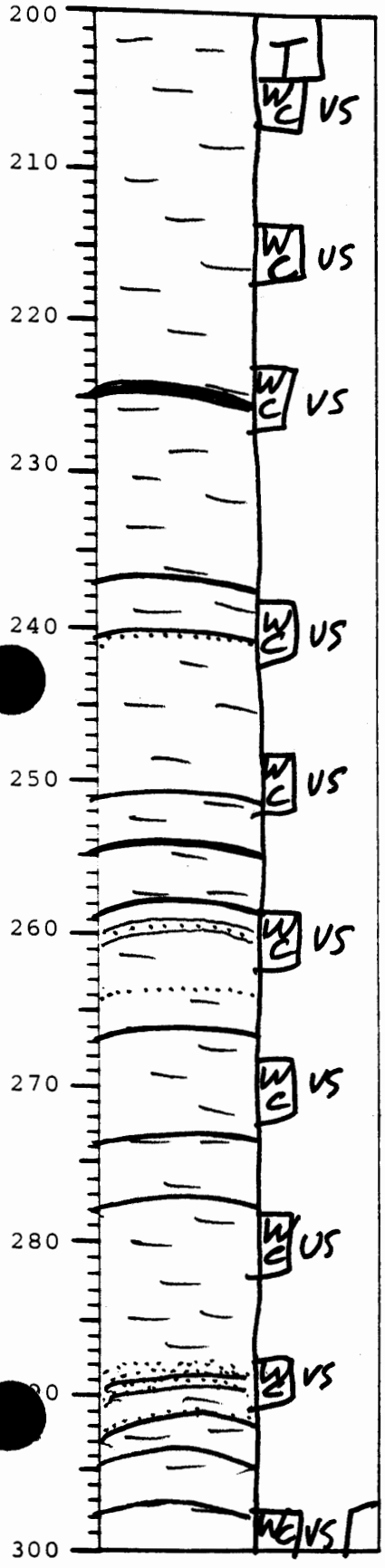
F-4-90

Kenyon

Sta. _____ Core No. PC 19

Lithologic Log

(cm)



Detailed Description

200-300 Gray clay. Dark yellowish gray 10YR 4/2 grading down to olive gray 5Y 4/1 Mottled, dark gray, organic, bands, average about 2 cm apart

59-60 Silty layer

288-290 Silty laminations

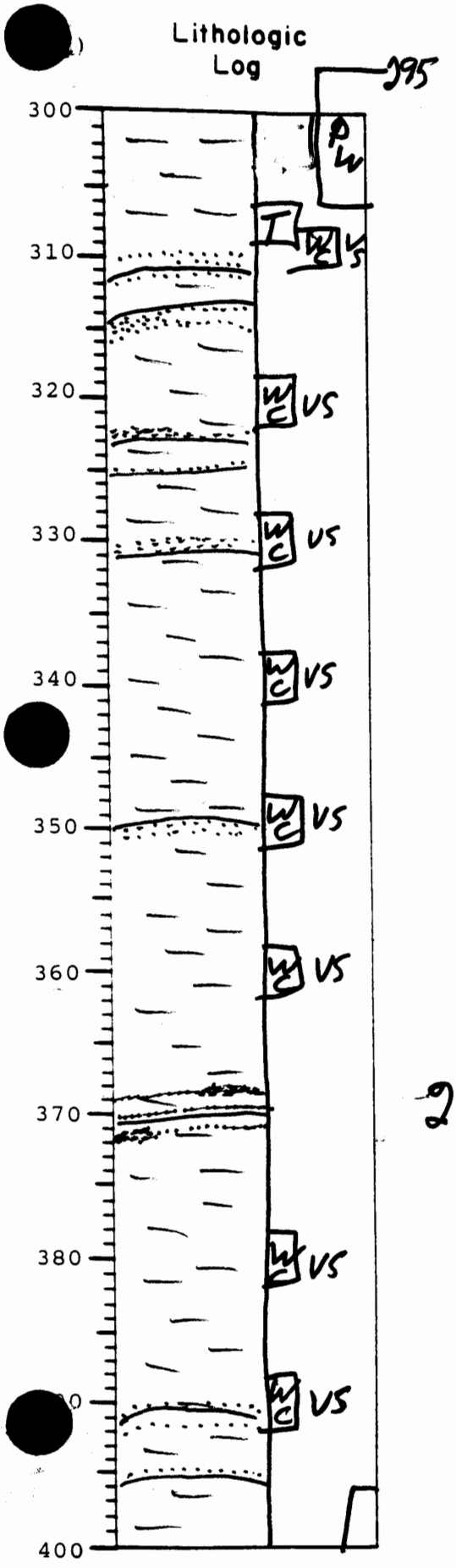
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC19

Lithologic Log



Detailed Description

300-400 Olive gray clay 5Y 4/1.
Bands of faint colour variation and dark gray, organic material. Average about 0.5cm apart. typically associated w/ 1mm silt lam

Silty bands have some thickening across core

306-308 = T

268-272 - Black lamina & blebs
silt blebs & laminae

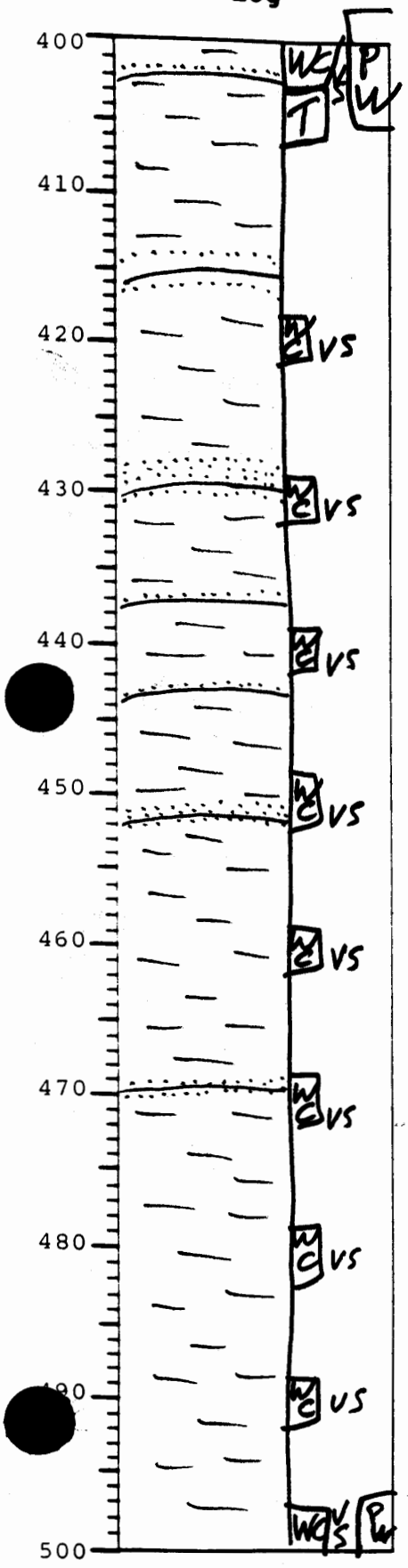
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 19

Lithologic Log



Detailed Description

400-500 Olive gray clay. 5Y 4/1

There are faint colour variations ~~and~~ in layers and also dark gray, organic, bands and irregular blebs. Thickness varies from fine laminae 0.2-0.4 cm thick couplets to 10 cm layers.

Silty laminae, olive gray 0.1-0.2 cm thick silty clay with clay between

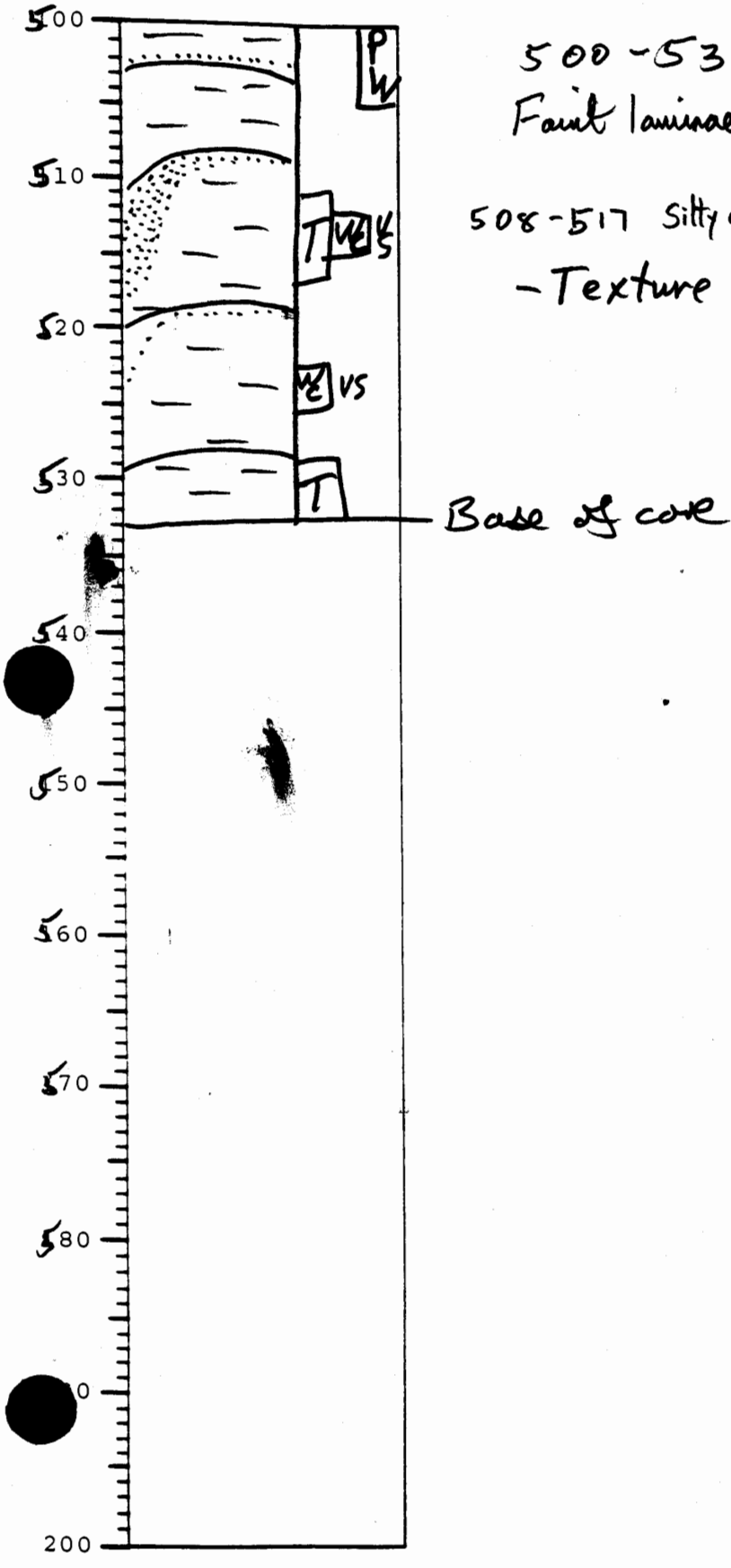
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC19

Lithologic Log



Detailed Description

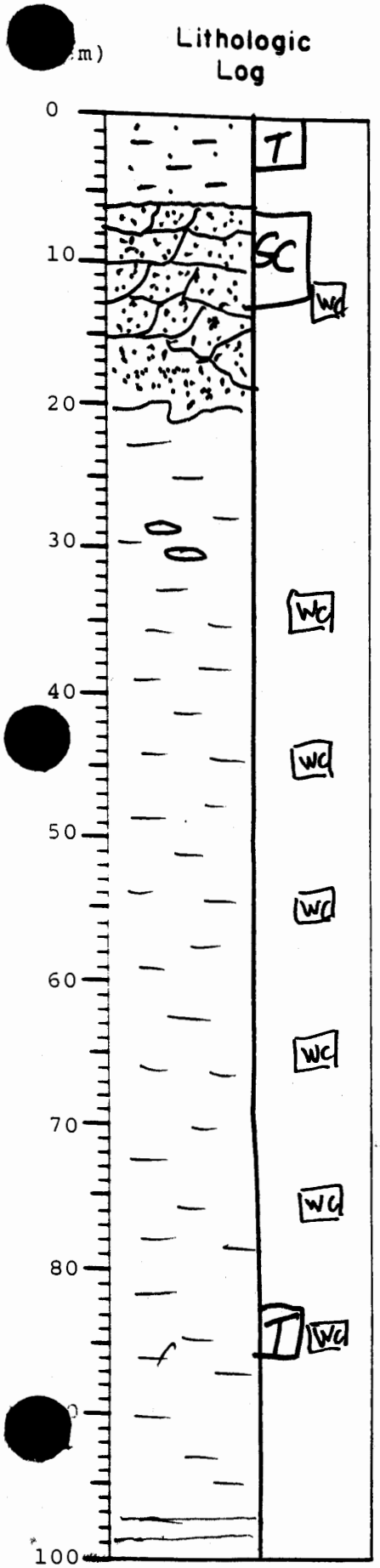
500-533 Olive gray clay 5Y 4/1
Faint laminae just visible down to 520

508-517 Silty clay, possibly distorted by coring disturbance
- Texture sample from silt layer only

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 20



Detailed Description

0-61 Dark yellowish brown (10YR 4/2) ooze

6-18 Oxidized & indurated sand yellow to rust red limonite & hematite stained & cemented (10R 3/4)
Broken into pieces and disturbed

18-22 Olive gray ooze - mottled & disturbed

22-100 Olive gray (Dark yellowish brown 10YR 4/2 grading dusky yellowish brown by 1m. (10YR 2/2)
homogenous clay

30-35 cm possible gas vesicles

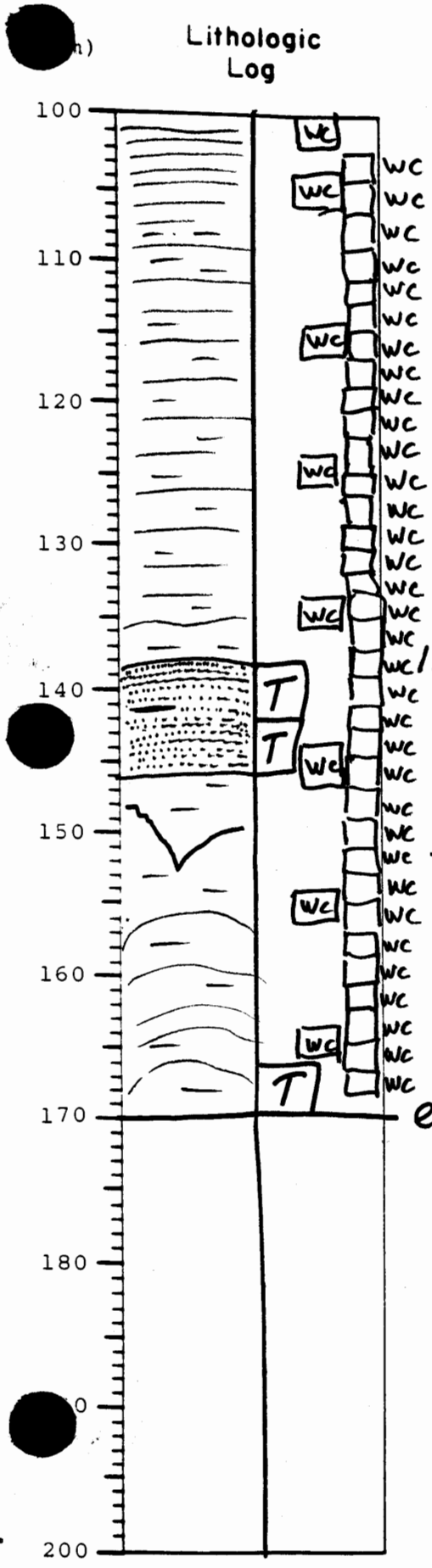
60-110 Dark gray patches increasing in numbers down core
(Organic deposits in burrows?)

98-100 Laminations

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC20



Detailed Description

100-139 Finely laminated olive gray clay. 0.2cm-0.5cm thick Dark yellowish brown 10YR 4/2 and grayish black N2.

139-146 medium silt layer

some core disturbance

146-170 Coarsely laminated olive gray clay. Stiff. 0.4-6cm thick. Dark yellowish brown 10YR 4/2 and grayish black N2.

end of core

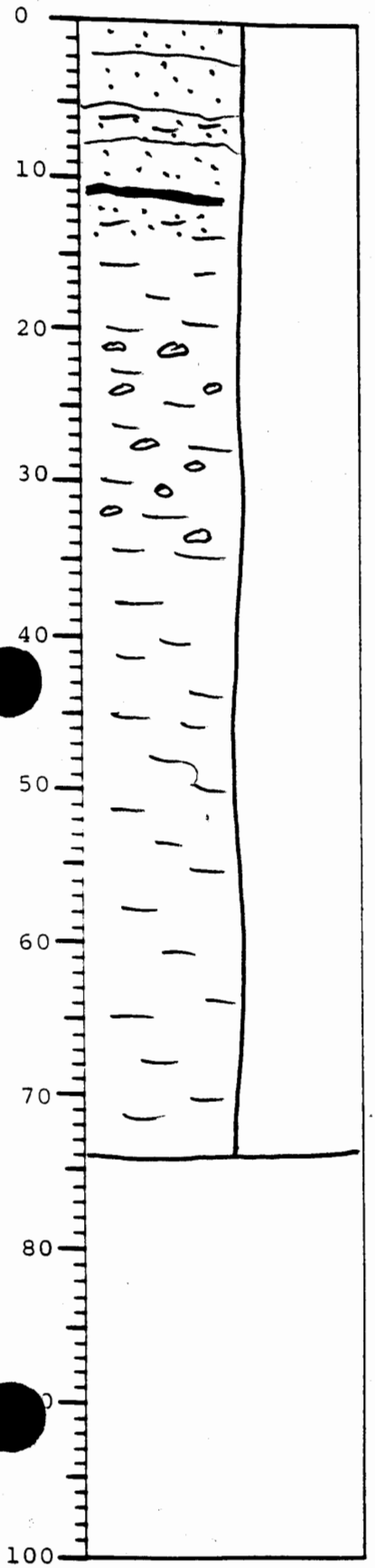
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC20

(cm)

Lithologic Log



Detailed Description

0-14 Muddy foram sand. Bands of dark yellowish orange 10YR 6/6 and moderate yellowish brown 10YR 5/4

11 cm 0.5 cm thick crust - blackish red 5R 2/2 in centre

23-35 Possible gas vesicles

14-74 Olive gray homogeneous clay. Dark yellowish brown 10YR 4/2.

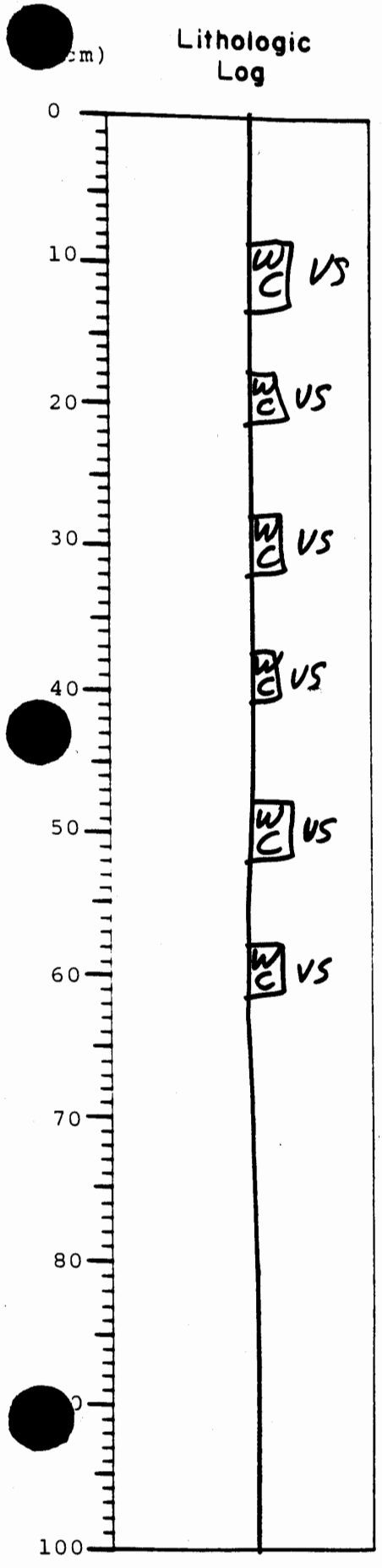
20-23 Grayish olive ~~mud~~ clay filled burrows

Bottom of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. 21 Core No. TC21



Detailed Description

Trigger core = same as the piston core so not logged separately all on PC sheet

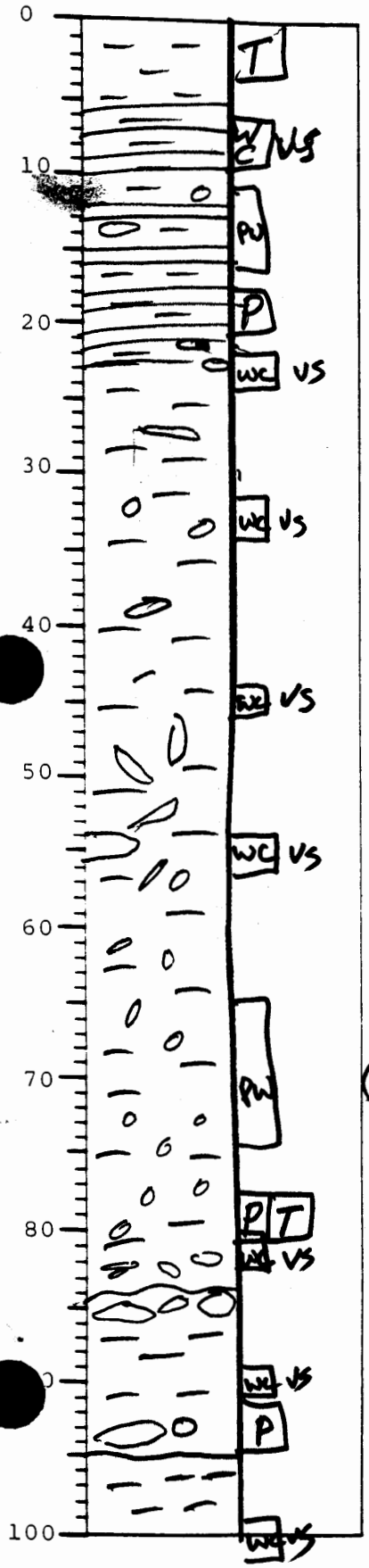
VISUAL CORE DESCRIPTION F-4-90 Page 1 of 3

Nelson

Sta. 21 Core No. PC 21

Tot length. 295cm

Lithologic Log



Detailed Description

0-10 Moderate yellowish brown (10YR 5/4
grading to dark yellowish " (10YR 4/2)
by 10 cm - both mottled w/ burrows
of dark yellowish

- Entire core = carbonate clay
  ⊗ common in top unit
- some nearly horizontal color laminations in upper 20
- by 20 cm gradation to lt. olive gray (5Y 6/1)

23-85 lt olive gray w/ " " (5Y 4/1)
well-developed burrow mottling
some of " " contains nearly
clean bands of ⊗'s in dark horizontal bands

84-95 = homogenous olive gray clay (5Y 3/2)
w/out burrows
top contact gradational + bioturbated
- bottom @ 95cm = sharp but two large burrow
mottles above ↳ to lt. olive gray (5Y 4/1)

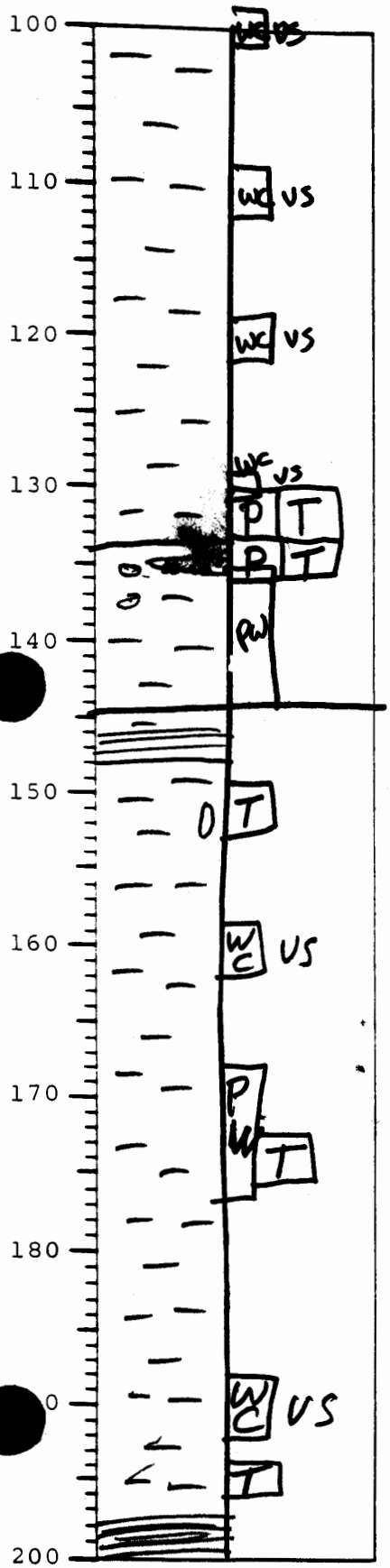
(p2) 95-134.5 lt olive gray clay grading back gradullay to
homogenous dark olive gray (5Y 3/2) clay
134/sharp contact w/ lighter olive gray clay (5Y 4/1

85-94 - homogeneous clay w/ no burrows evident
95-100 well mottled w/ large burrows

VISUAL CORE DESCRIPTION F-4-90 Page 2 of 3

Sta. 21 Core No. PC21

Lithologic Log



Detailed Description

See p 2 note on p 1 for description

135 - 136 cm burrows filled w/ 8's

134 - 148 lt olive gray clay
end of top core section
small color laminae

148 - 198 - homogeneous olive gray clay (5Y4/1)
w/ out apparent mottles

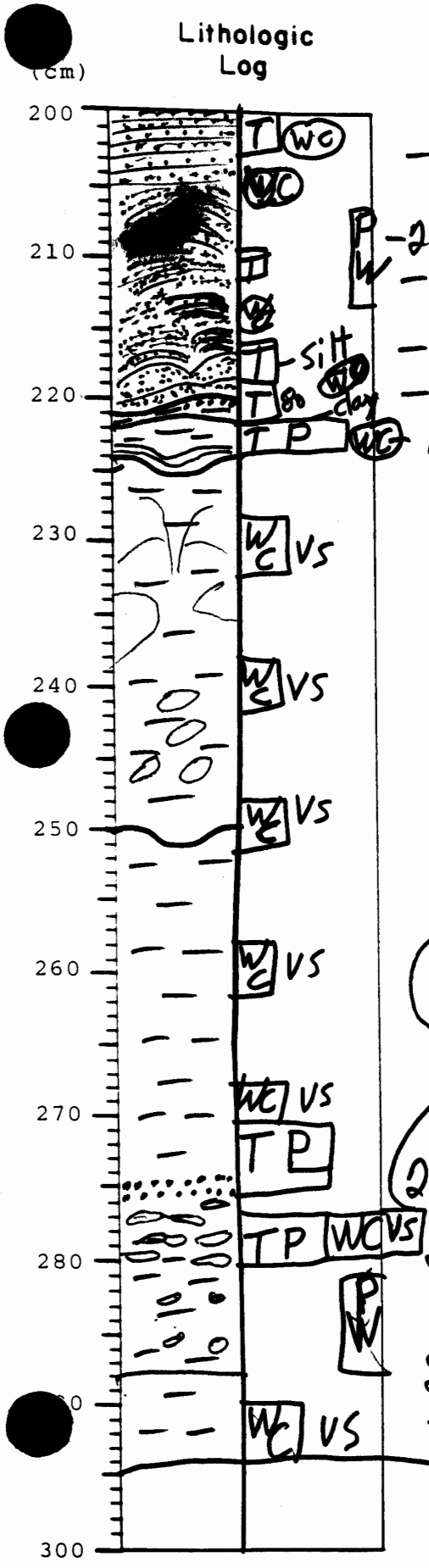
3 T samples

198 - 204
laminated fine silt w/ dark 1 mm bands as
top of graded turbidite bed

VISUAL CORE DESCRIPTION

F-4-90

Sta. 21 Core No. PC21



Detailed Description

- top part has graded texture
- 198 - 121 = continuous olive black to olive gray silt turbidite
- 207 - 221 cm
- possible cross lamination &/or convolute lamination
- lower part more massive + homogenous grain size
- sharp contact at base w/ Carb hemipel. ooze
- appears to be siliciclastic composition w/ common ⊗s

220 - 222 = light olive gray 5Y 6/1 clay at the base w/ carb ⊗ + shell hash, Pteropod ooze fine sand for top ½ cm - winnowed by TC

222 - 225 Brownish gray clay w/ 2 light olive " " lamination of 2mm thickness

225 - 250 - Olive gray clay 5Y 4/1 - Miss Turb?

250 - 275 - " " " 5Y 3/2 very homogeneous possibly mud turbidite of Mississippi source

275.5 - 276 - clean siliciclastic silt lamina 3mm

276 - 281 highly bioturbated light olive gray clay - possibly normal bioturbated hemipelagic

281 - 295 less bioturbated homogeneous clay

288 - 295 = darker olive gray clay

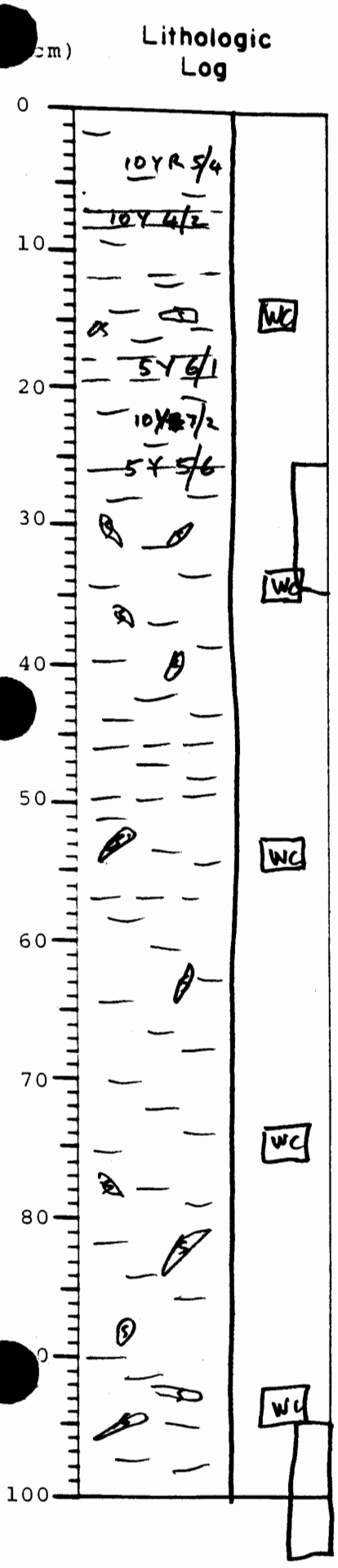
end of cor

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. GC 22



Detailed Description

Disturbed material believed sucked into top of barrel 0-38 cm is disregarded.

0-104 Carbonate mud. Massive, burrowed (burrows less than 1 cm diameter) Faint layering may be chemical colour changes rather than primary bedding.

0-7 Moderate yellowish brown 10YR 5/4

7-8 Grayish olive 10Y 4/2

8-104 Yellowish gray 5Y 7/2 with pale gray burrow fills

26 0.5 cm Light olive brown 5Y 5/6

18-20 Light olive gray 5Y 6/1 with yellowish rim on either side

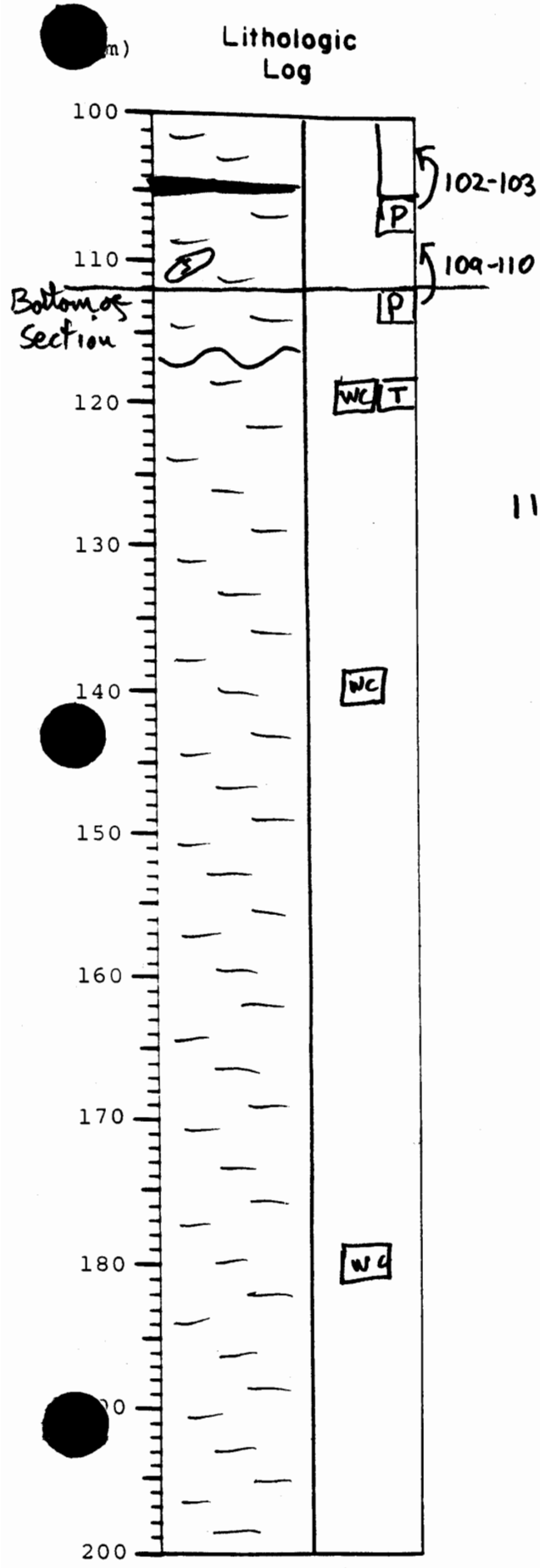
46, 50, 56 cm faint changes in colour

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. BC 22



Detailed Description

100-104 Yellowish gray clay

104-105 Hardish iron rich band. Moderate brown 5YR 4/4 with 2 cm either side of light olive green/yellowish stain (10Y 5/4)

~~105~~

105-117 Light olive gray (5Y 6/1) clay Wavy lower boundary. Some bioturbating or moderate

117-233 Massive, featureless light olive gray clay 5Y 4/2

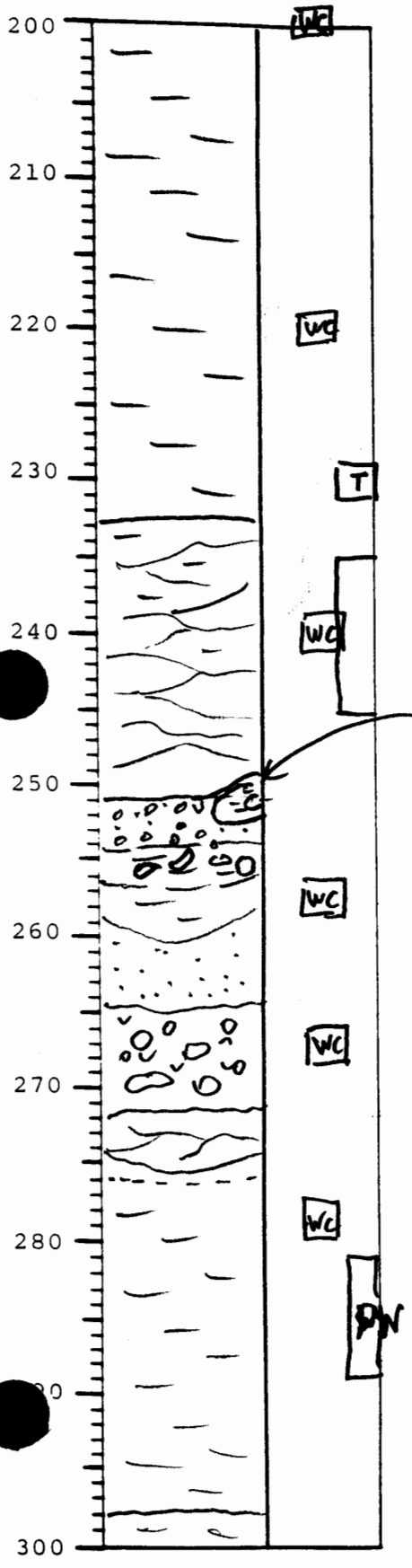
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. BC 22

Lithologic Log



Detailed Description

200-233 Light or moderate olive gray clay. Massive, featureless 5Y 4/2

233-275 Irregularly bedded clays of various shades of gray, muddy shell sand with rounded clay pebble. Debris flow? Several thin debris flows?

233-251 Appear to be lenses of various shades of gray clay, possibly flattened lumps. Mainly yellowish gray 5Y 7/2

248-251 Slightly silty clay

1.5 cm rounded clay pebble

251-253 muddy shell sand, light olive gray 5Y 6/1.

253-256 Olive gray clay 5Y 3/2 with lighter gray clay clasts / lumps within

256-260 Yellowish gray clay 5Y 7/2

260-265 Light olive gray clay 5Y 5/2 with silty clay base

265-272 Olive gray 5Y 4/1 clay matrix with flattened mud pebbles in various shades of gray, and shell fragments

272-275 Yellowish gray clay 5Y 7/2, flattened lumps?

275-276 Iron rich band. Light olive brown ~~band~~ staining 5Y 5/6

276-298 Structureless olive gray mud 5Y 3/2.

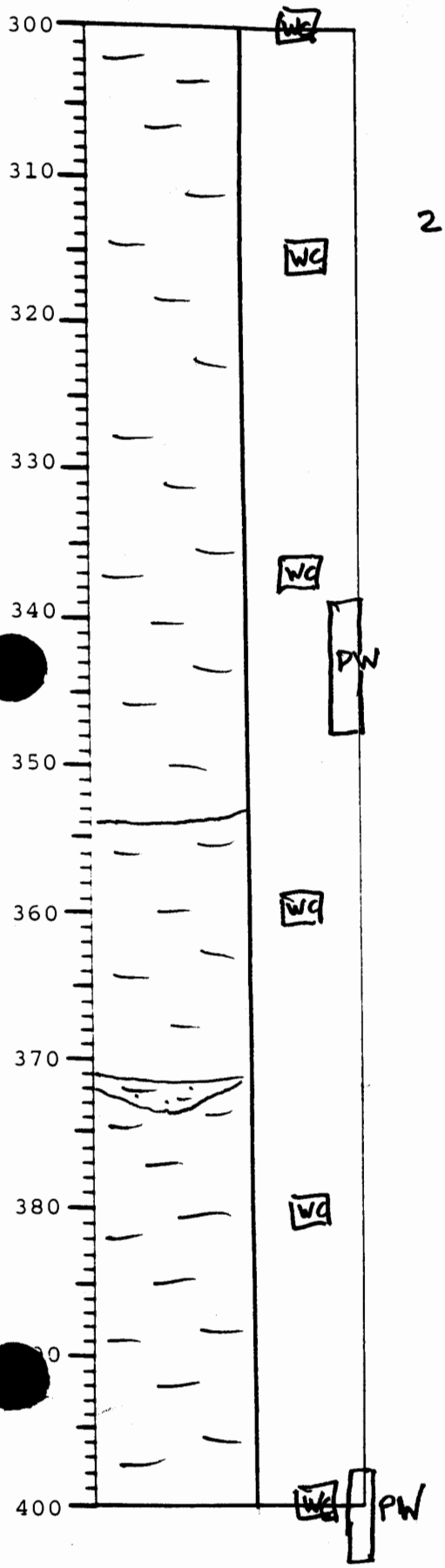
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. BC 22

Lithologic Log



Detailed Description

298-354 Structureless medium olive gray ~~mud~~ clay 5Y 4/2

354-371 structureless light olive gray clay 5Y 5/2

371-373 Possible silty clay base slightly lighter than above.

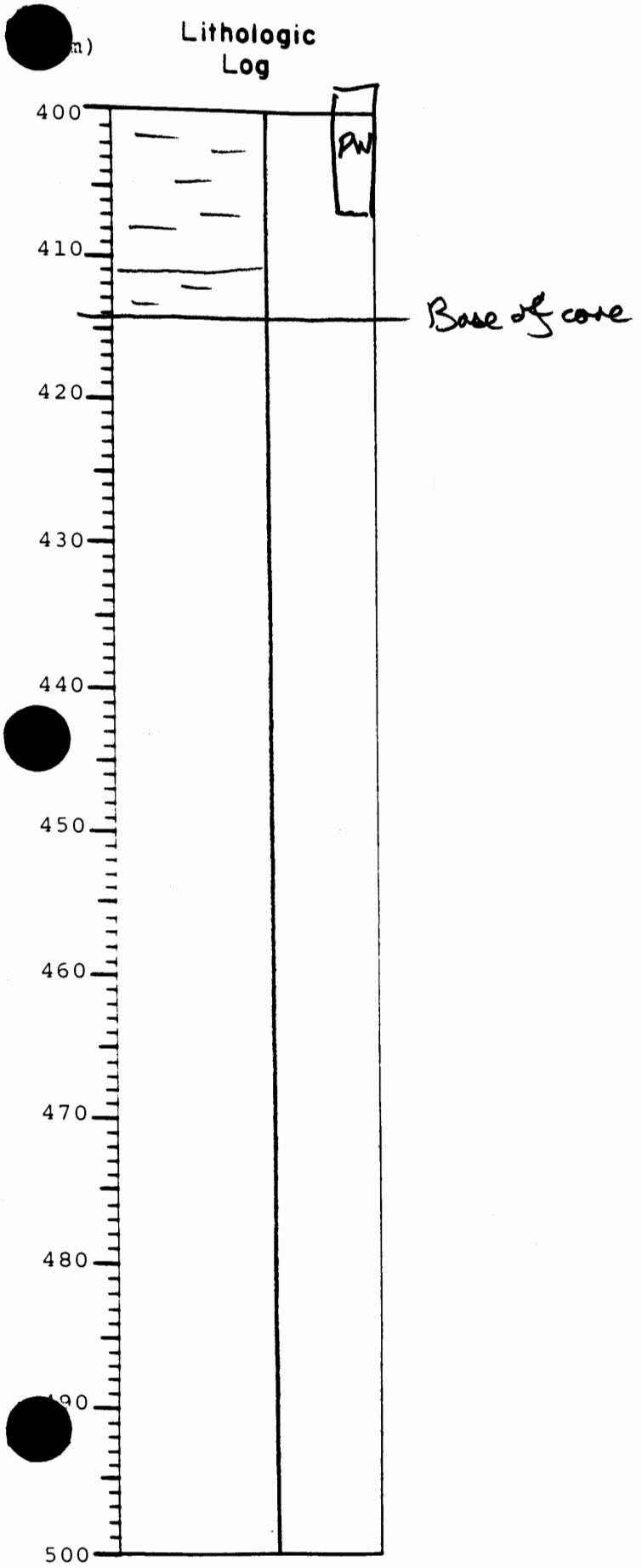
373-411 Structureless medium olive gray clay. 5Y 4/2

VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. BC 22



Detailed Description

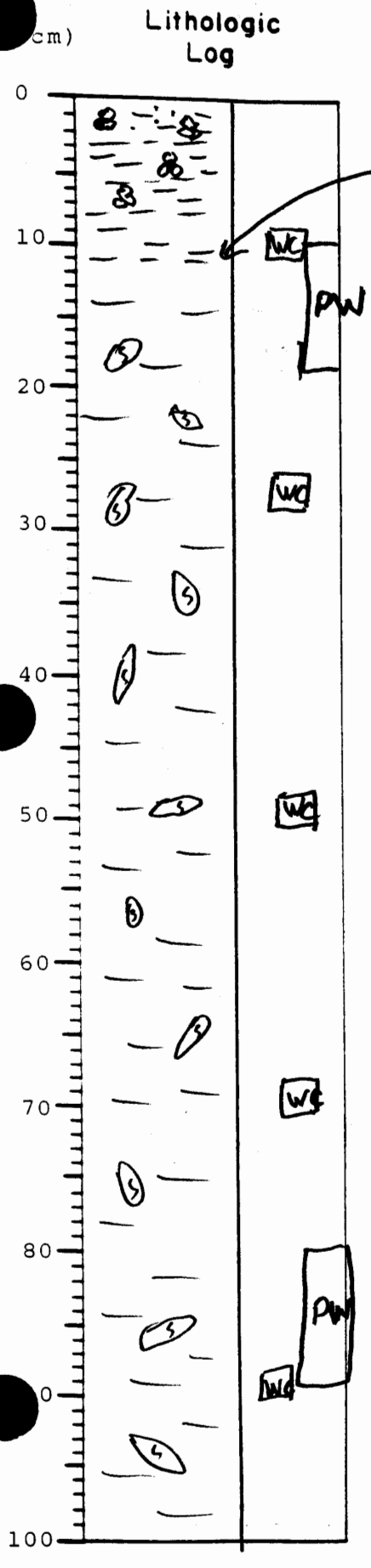
411–414 Light olive gray clay 5Y 5/2

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 23



Detailed Description

Thin iron band, indurated in Trigger core.

0–11 Sandy foram mud. Alternating bands of yellowish gray 5Y 7/2 and light olive gray 5Y 6/1. Bands are 0.5–1 cm wide.

11–108 Massive light olive gray clay (5Y 6/1) with many small burrows, infilled with slightly darker gray clay. A few faint colour changes. Include forams. Carbonate.

32–35 Narrow, hollow tubes, vertical, dark walled, seen in working half. < 0.1 cm diam.

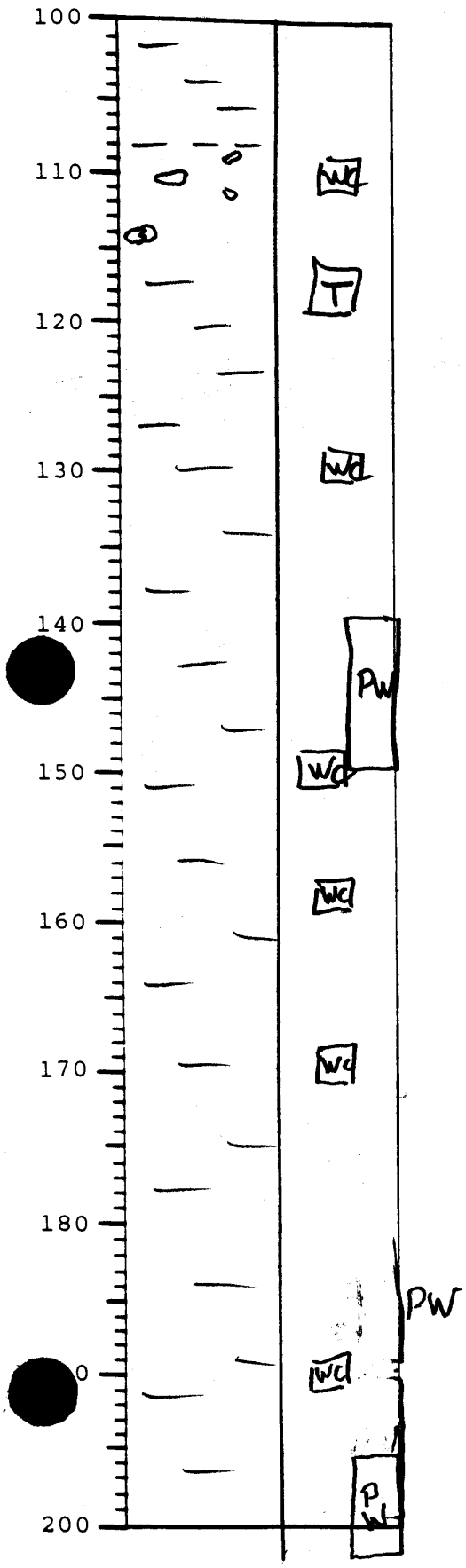
VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. PC 23

Lithologic Log



Detailed Description

108 Indistinct boundary, poss. due to bioturbation.

108–114 Burrows infilled with paler carbonate from above.

108–end of section Structureless medium olive gray clay 5 Y 4/2

VISUAL CORE DESCRIPTION

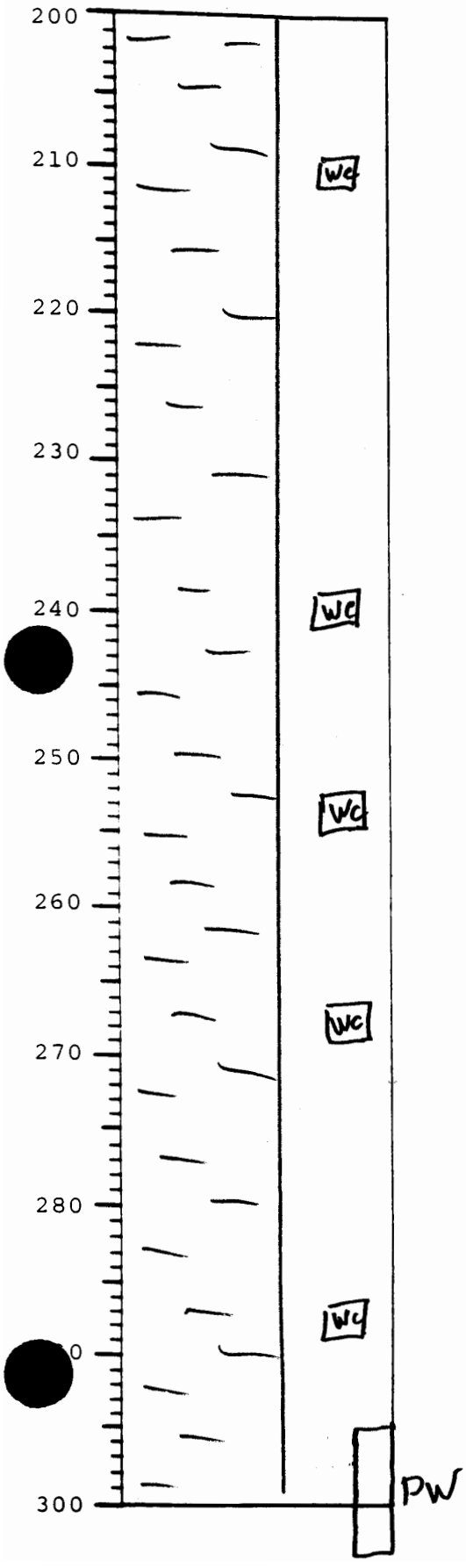
Kenyon

F-4-90

Sta. _____ Core No. PC 23

Lithologic Log

(cm)



Detailed Description

200-300 Structureless, medium olive gray clay. 5 Y 4/2. Sticky.

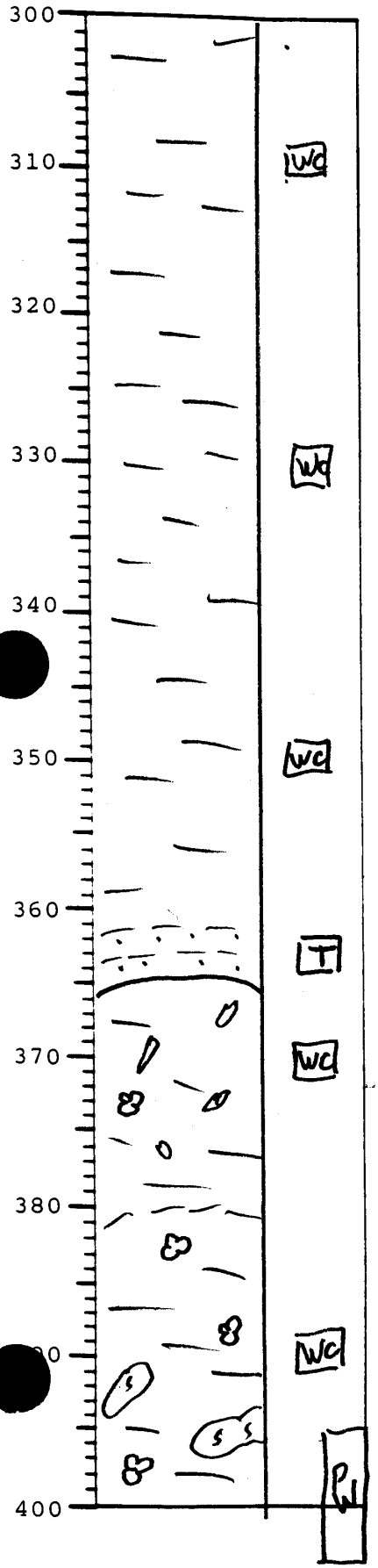
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 23

Lithologic Log



Detailed Description

300-366 Structureless, apart from base (see below) medium olive gray clay. 5Y 4/2.

362-366 Faint laminations, some silttiness.

366- Carbonate clay, much paler than above. with forams, shell fragments.
Light olive gray 5Y 6/1
Mottled bands and burrow fills of medium gray
N S organic material

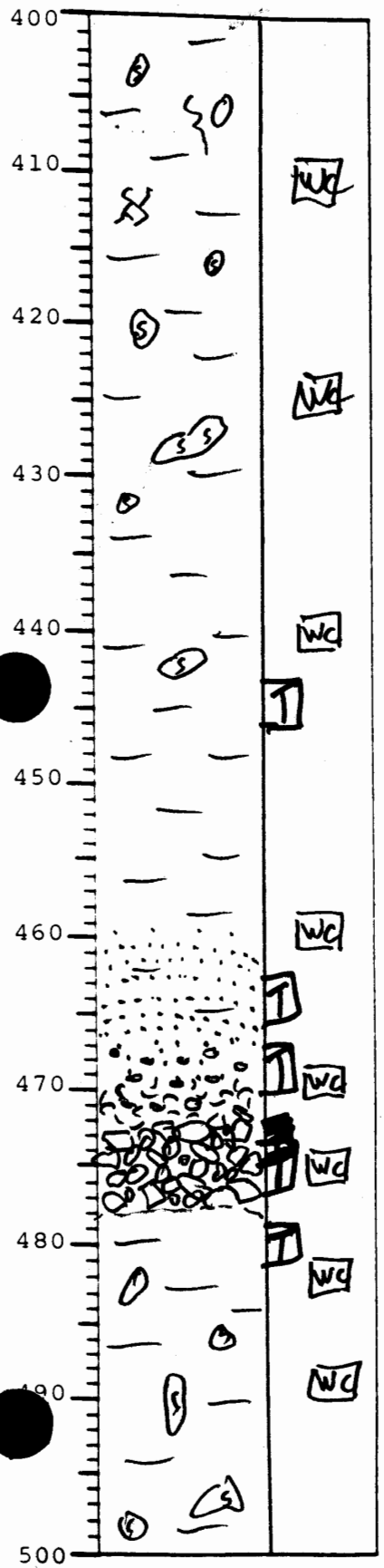
VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. PC 23

Lithologic Log



Detailed Description

400-432 Carbonate clay with forams, shell frags. Light olive gray 5Y 6/1. Burrows, irregular and c. 1 cm diam. also complex branching c. 0.1 cm diam.

432-468 Structureless light olive gray clay 5Y 6/1 (no burrows apart from one at 442 cm)

461-468 Sandy mud, grading up into silty mud Light olive gray 5Y 6/1

468-471 Muddy shell sand fining up

471-478 Mud clast conglomerate grading up. Clast size c. 1 cm or less. No matrix. Various colour of gray.

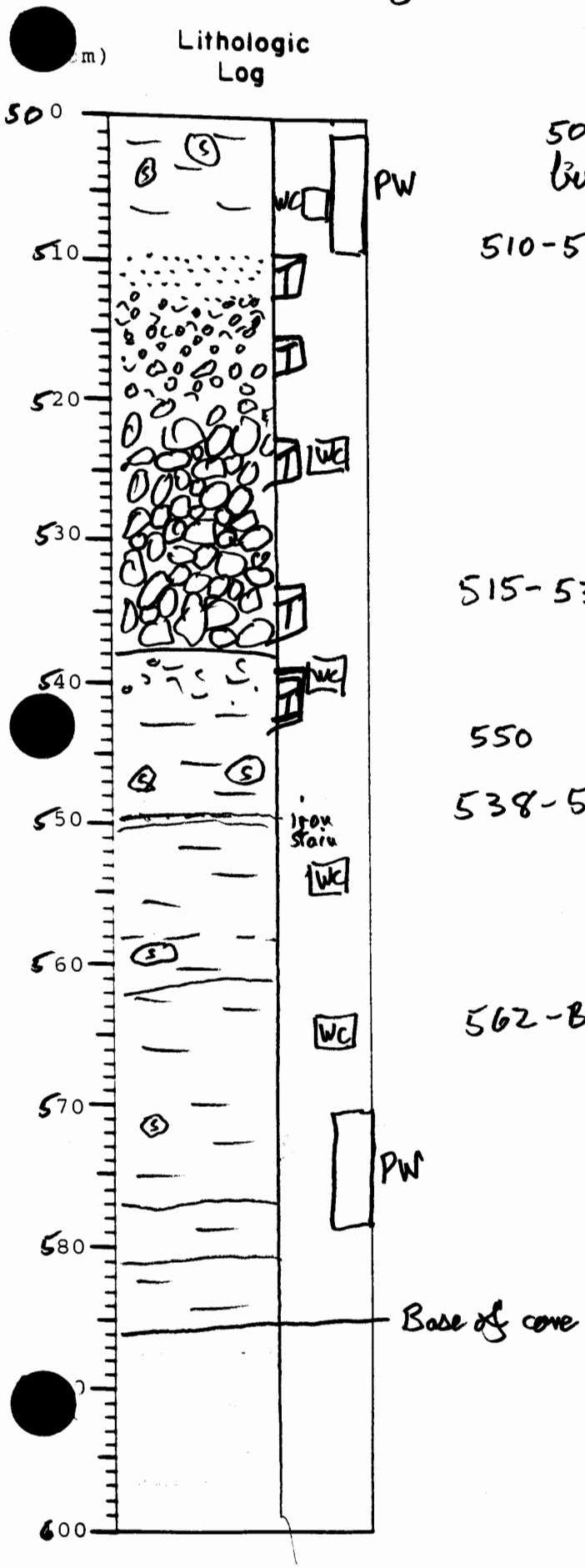
478-500 Carbonate mud with forams, shell frags. Light olive gray 5Y 6/1. Clay filled burrows.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 23



Detailed Description

500-510 Carbonate mud with only a few burrows at 503-504 cm

510-515 sandy carbonate mud fining upwards from shelly, sandy mud Light olive gray 5Y 6/1

515-538 Mud clast conglomerate. No matrix apparent. Grading up into shelly sand Variegated clast colours - darker grays near base.

550 Light olive brown iron stain 5Y 5/6 - not indurated

538-562 Carbonate mud with shelly, sand size grains in top 3 cm. Burrows, forams, throughout Light olive gray 5Y 6/1 at top light brownish gray below 5YR 6/1

562-Base Olive gray clay, very little bioturbation. 5Y 4/1 Some faint colour bands

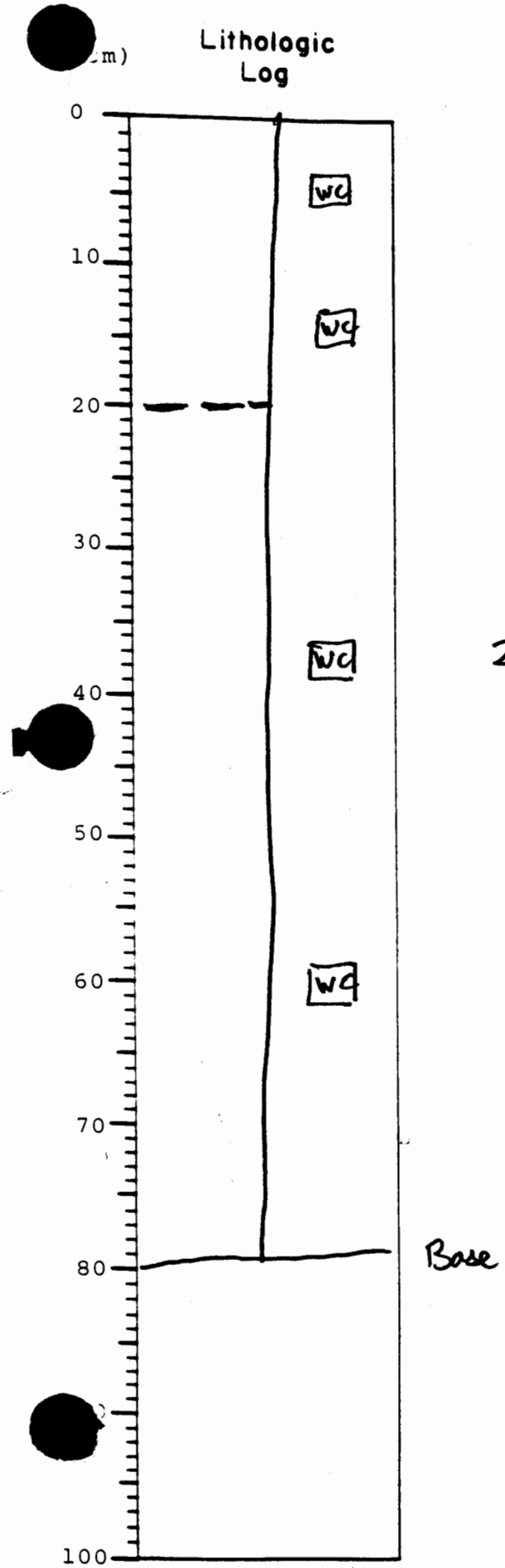
VISUAL CORE DESCRIPTION

F-4-90

Page 1 of 1

Kenyon

Sta. _____ Core No. TC 23



Detailed Description

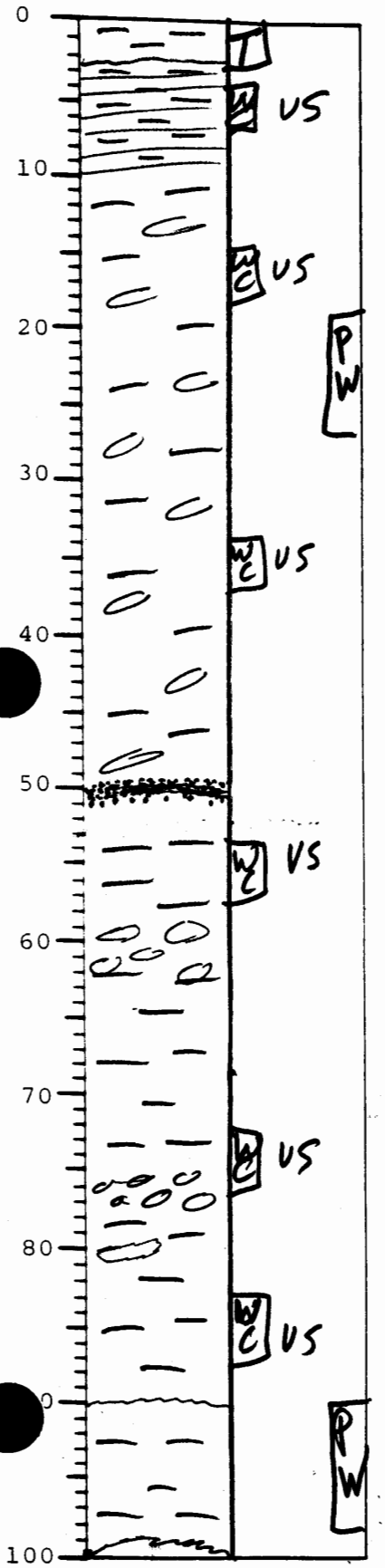
As PC 23 but upper banded section is longer 0 – 22 cm (i.e. less compressed) – note vertical burrows here + all // in PC 22 cm. Thin 0.2 cm indurated iron band Light olive brown 5Y 5/6.

VISUAL CORE DESCRIPTION F-4-90 Page 1 of 6

Nelson

Sta. _____ Core No. PC 24

Lithologic Log



Detailed Description 555 cm length

6-3 cm moderate yellowish brown (10YR 5/4) unconsolidated clay w/ ∞s

3-10 cm laminated yellowish + grayish yellow bands

10-53 cm lt. Olive gray (5Y 5/2) bioturbated clay

— Note that all burrow mottling is flattened of to TC which is less compacted

— Carbonate(?) clay has only very small + scattered microfauna

50 51 cm = ½ cm ∞ sd layer that is located @ 83 in TC

50 - 90
lt olive gray gradually getting darker
burrow mottles common

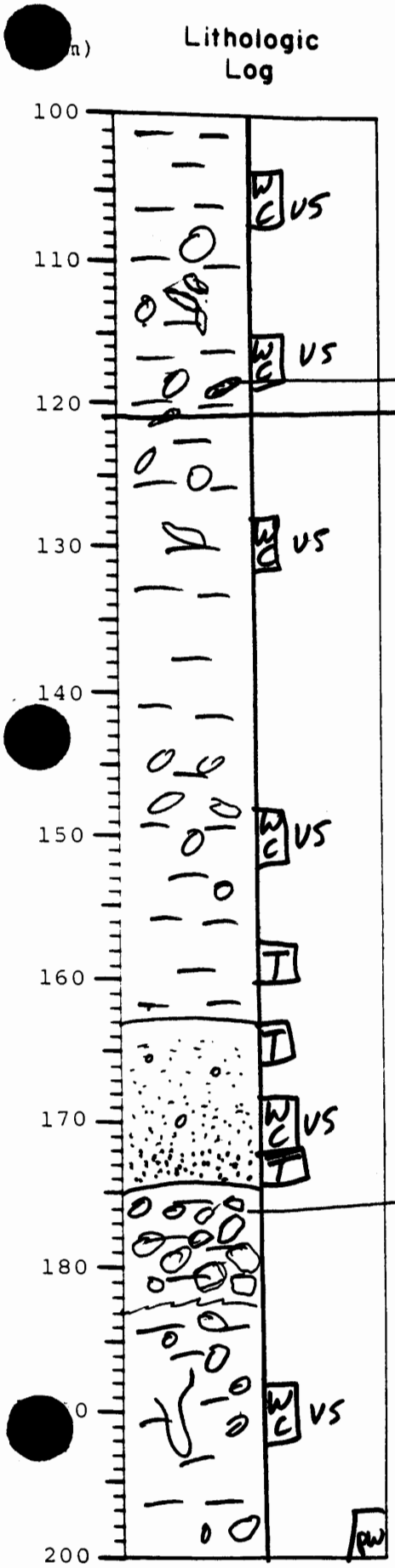
90-100 cm Olive gray gradually changing into lt. olive gray

100 cm sharp contact of Olive gray w/ lt olive gray

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC-24



Detailed Description

100 - 163 lt olive gray clay w/ large olive gray burrows 1-4cm

some open burrows exist

End of section

163 - 175 Carbonate turbidite
- small open burrows of ≈ 1mm
- upper part clayey silt to clay
- lower 2cm clayey sandy silt light olive gray at base of Carbonate TC highly bioturbated
- gradually grades to less bioturbation + olive gray clay @ 190 cm

190 - 350 massive olive gray clay w/ no bioturbation evident

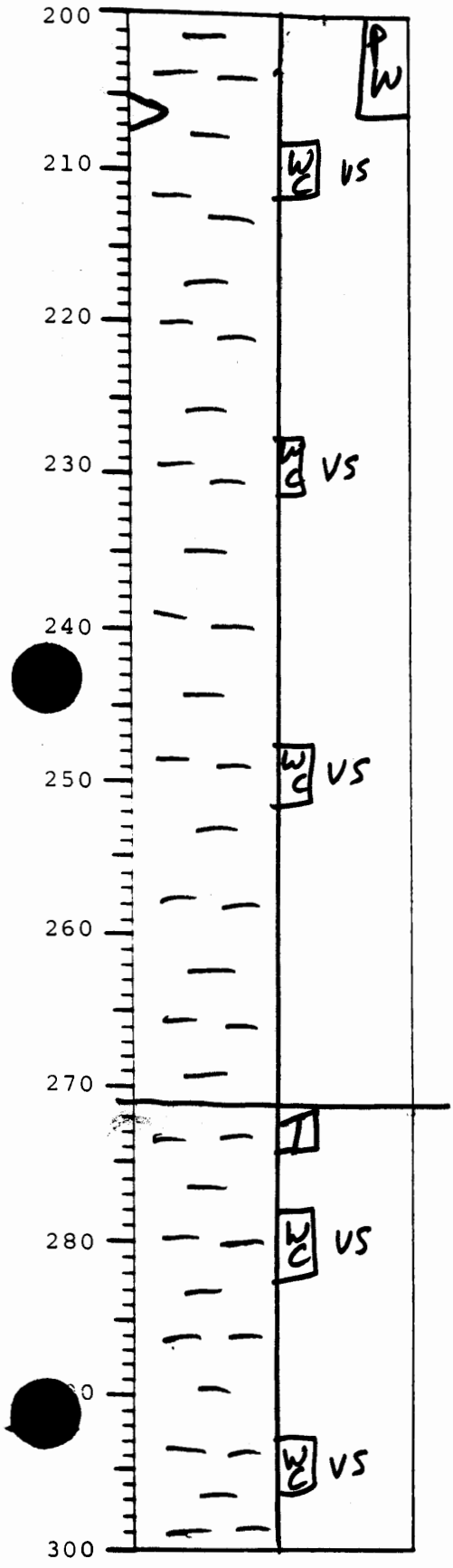
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. P2-24

Lithologic Log

(cm)



Detailed Description

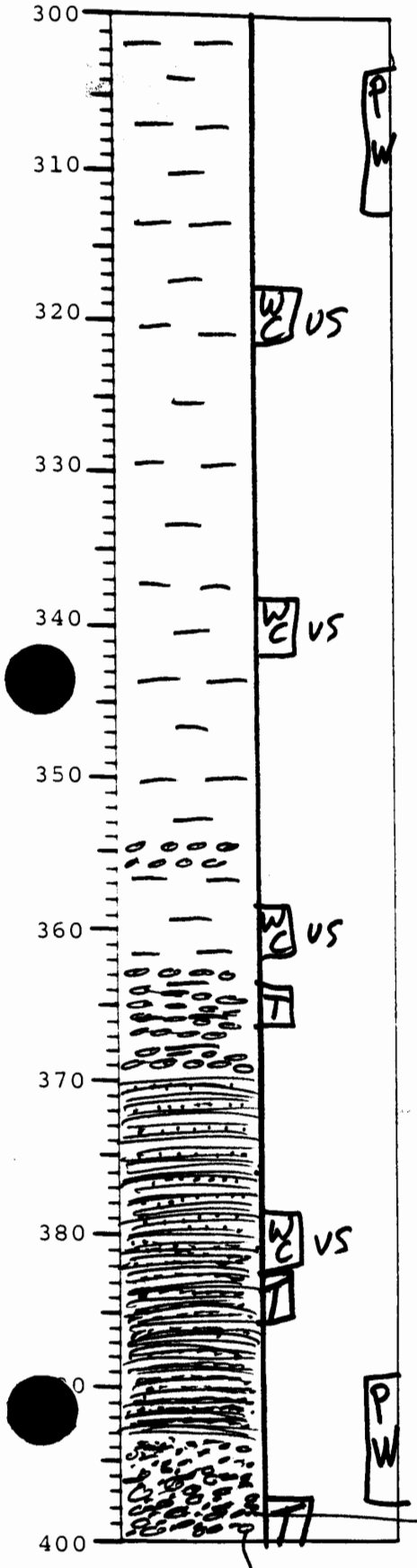
190 - 350 = olive gray clay

End of section

Sta. _____ Core No. PC-24

Lithologic Log

Detailed Description



355 - 350 1-2 mm section of bioturbation

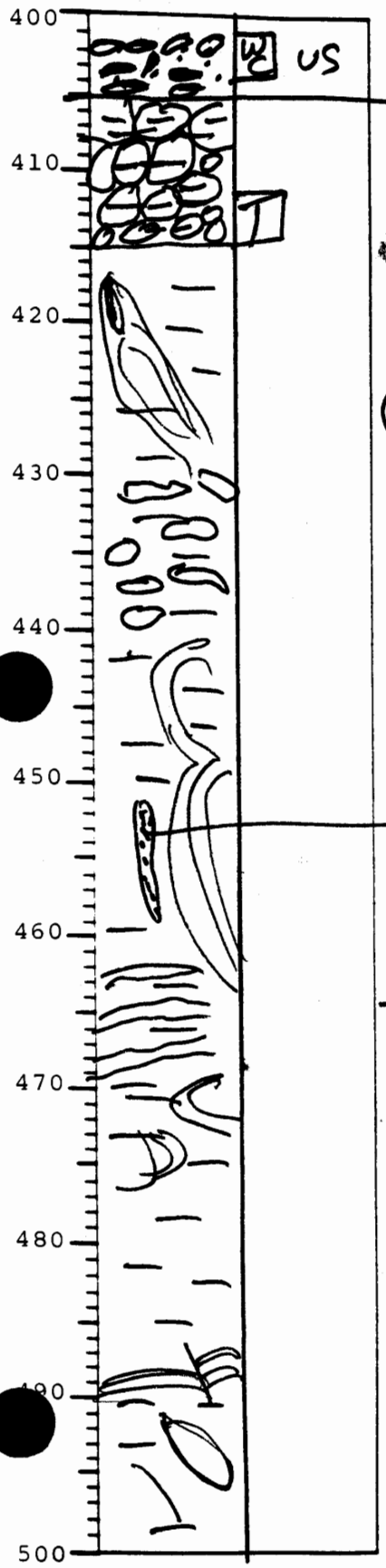
362 - 369 bioturbation(?) lamination at very gradual end of extensive carbonate turbidite

369 - 393 finely-laminated (1m) turbidite silt - upper gradational part

393 - 400 more basal massive part of turbidite - coarser carb. fragments up to 1-2mm but increasing amounts of clay chips of 2mm or more

Sta. _____ Core No. Sc-24

Lithologic Log



Detailed Description

mud clasts of 1-3 mm + 1-2m shell frag

end of section

[redacted] of recognizable sed. gravity flow
unconsolidated mud clasts up to 5cm dia.

415-430 Flow in

Flow in but can see distorted clasts

430-440

± preservation

clean & sand flipped

Banded light & dark layers 465-72

470-490 Distorted layers & flow in

490-520 Major flow in

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC-24

Lithologic Log

Detailed Description

500-520 flow in

white

524-530 light + dark layers

542-550 flat laminated sediment
1-3 mm banded light + dark

End of Core

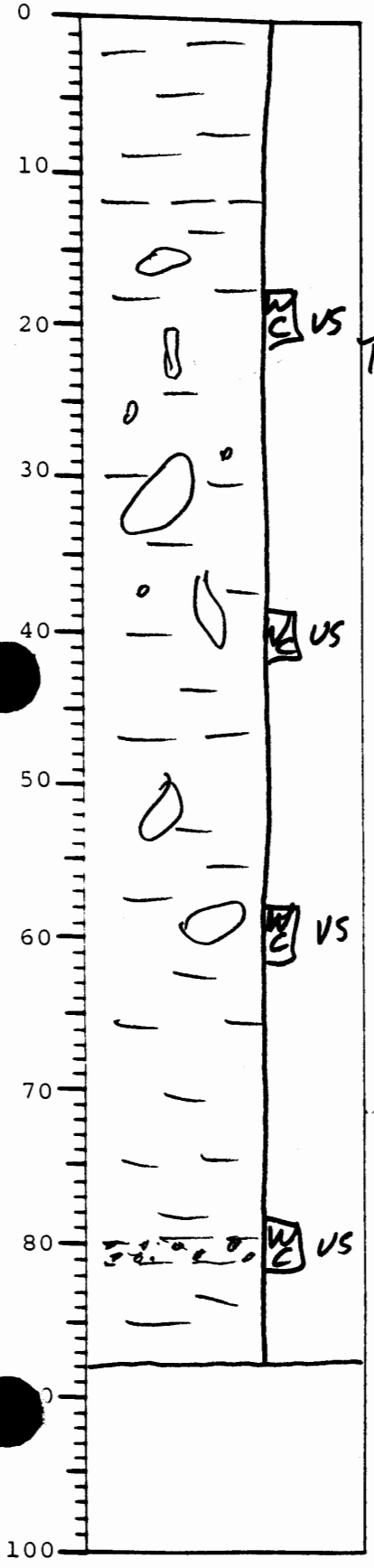
VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. TC24

(cm) Lithologic Log



Detailed Description

0 - 12 Yellowish gray 5Y 7/2 mud with forams. Some light olive gray irregular banding at 10-12cm. 5Y 6/1

Throughout there are open and filled burrows. Circa 0.2cm and 1cm diameter.

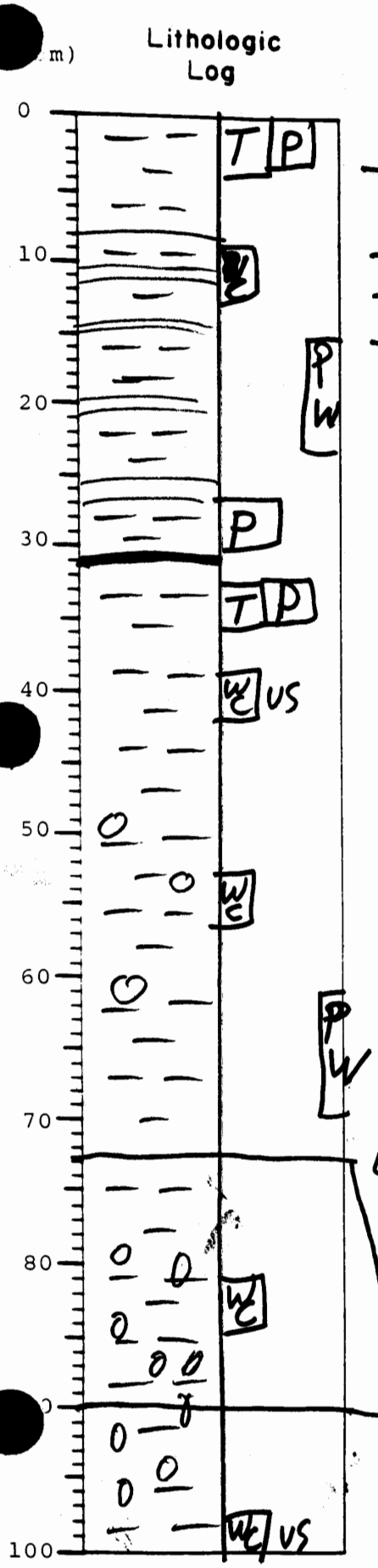
12 - 88 Light olive gray clay 5Y 6/1

80-82 Light olive gray coarser band 5Y 6/1

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 25



Detailed Description

- 0 - 8 Clay (unconsolidated) Moderate yellowish brown (10YR 5/4)
- 8 - 31 Clay w/ banded colors Dark yellowish brown (10YR 4/2)
- 31 - 31.5 Moderate yellowish " indurated clay
- 31 - 130 Lt Olive gray (5Y 5/2) highly bioturbated clay

End of section 1

Well-developed burrows darker gray .5 - 2 cm - some remain open between 100-150

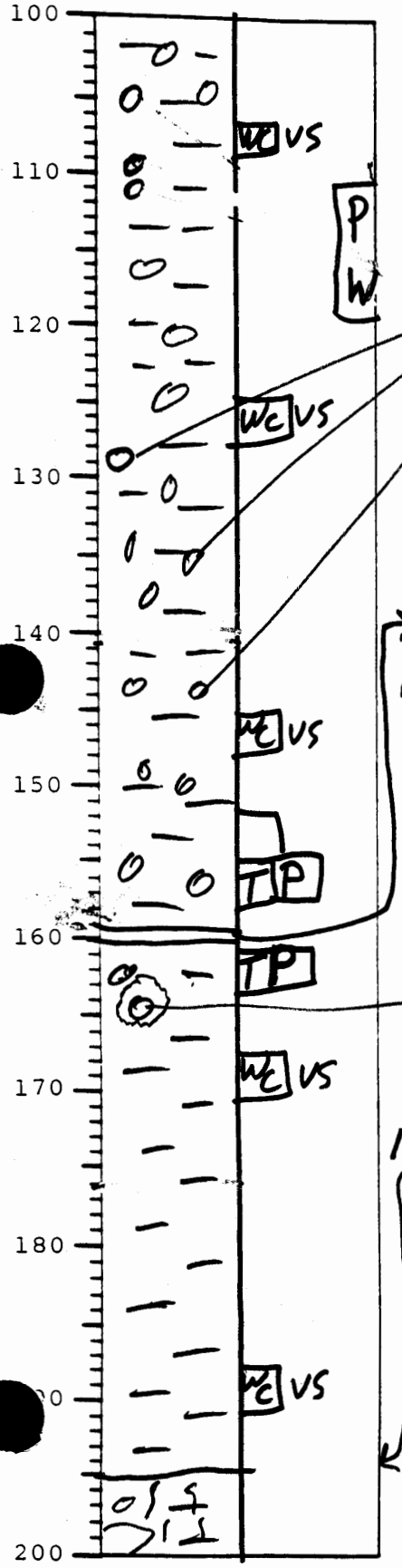
End of short section that fell out of space between liners

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC25

(m) Lithologic Log



Detailed Description

Open burrows from 120 - 165 cm

135-140 gradational color from greenish olive gray to lt olive gray

159 - 159.5 dark yellowish brown clay horizon

159.5 Top of Olive gray clay (miss ?)

completely homogeneous clay w/out evident bioturbation

open hole w/ lt gray rind

195 cm sharp base with light olive gray clay

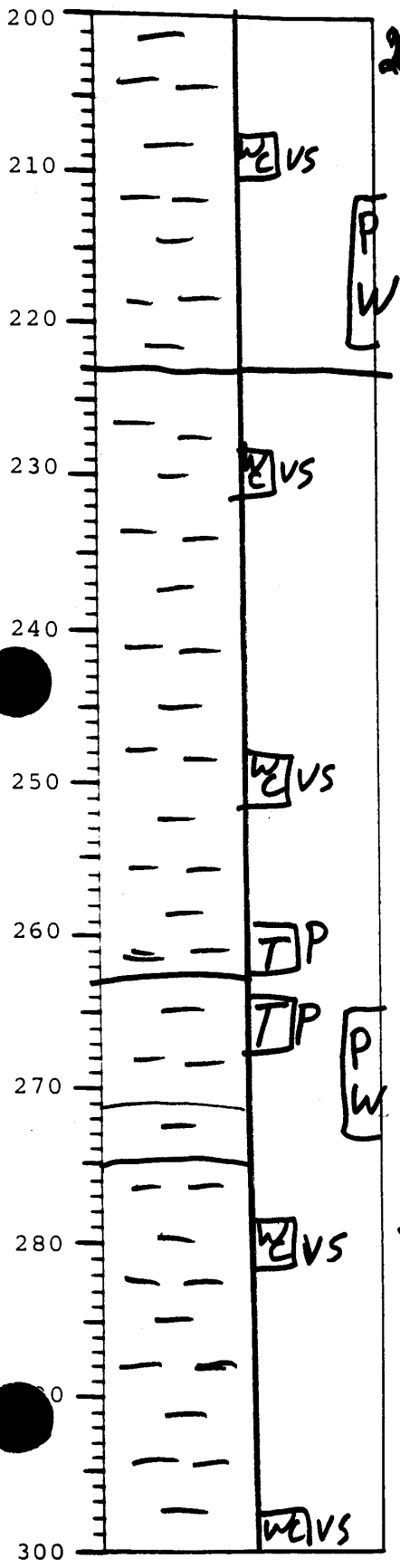
195-202 highly bioturbated lt gray clay

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 25

Lithologic Log



Detailed Description

200 greenish gray clay gradational to olive gray clay @ 205 cm

205 – 263 – Olive gray homogeneous clay

End of section

263-271 bioturbated lt. gray clay

271-275 greenish olive gray gradation

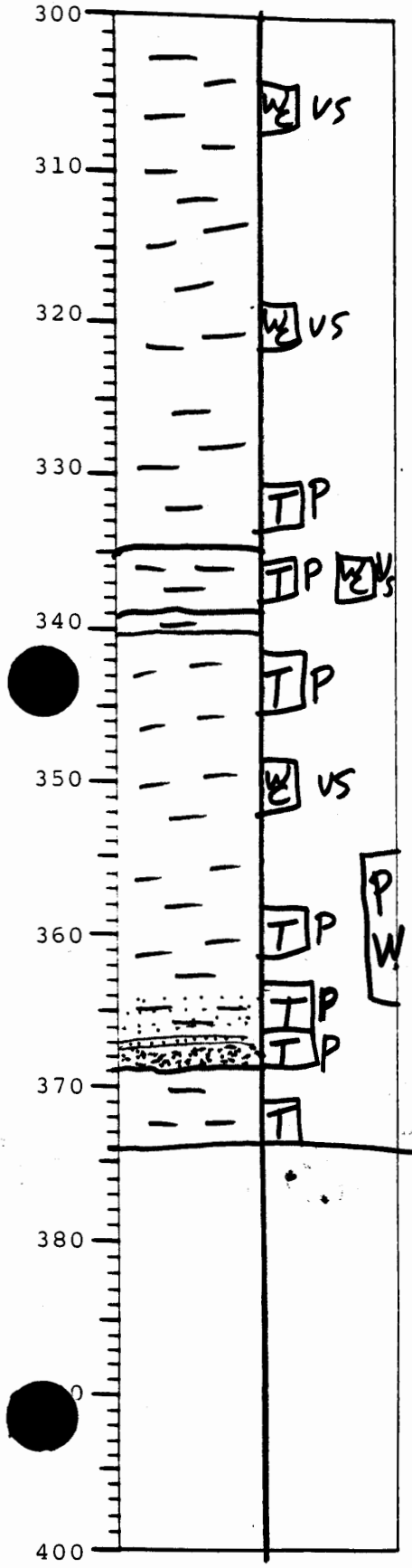
275-335 " " clay - homogeneous w/out bioturbation

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC25

Lithologic Log



Detailed Description

330 lt olive gray 5Y/6/1
339

339- 340 brownish gray 5Y 4/1

340 - 364 olive gray clay

364 - 368 " " " gradational from silty clay to silt laminae

368 -369 - light gray medium silt

369 - 373 brownish gray clay

End of core

339 - 369 - Classic Miss Fan turbidite

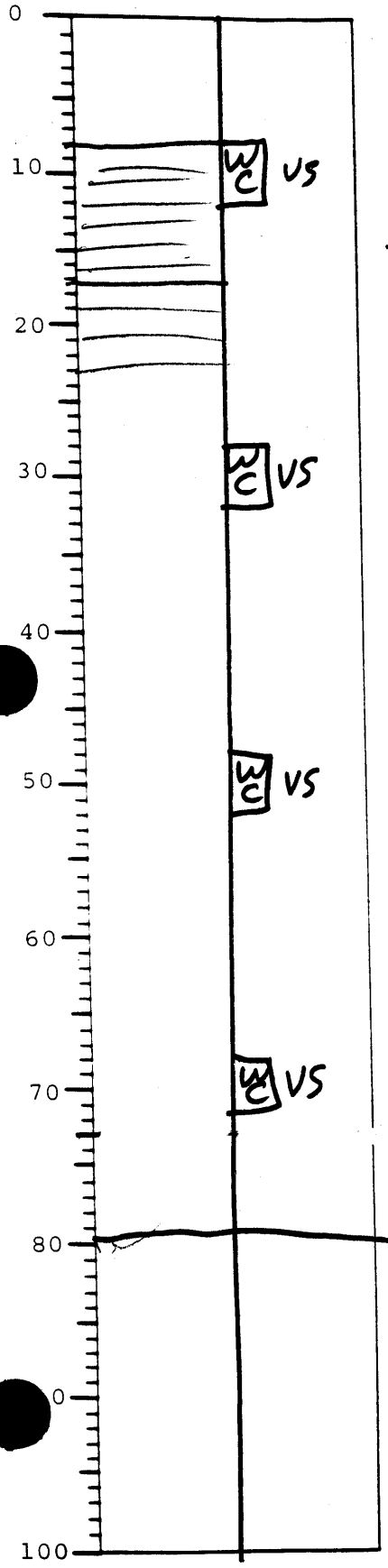
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC 25

(cm)

Lithologic Log



Detailed Description

0-8

Banded 8-17

lt. banding to 24cm

24-80 bioturbated lt. gray clay

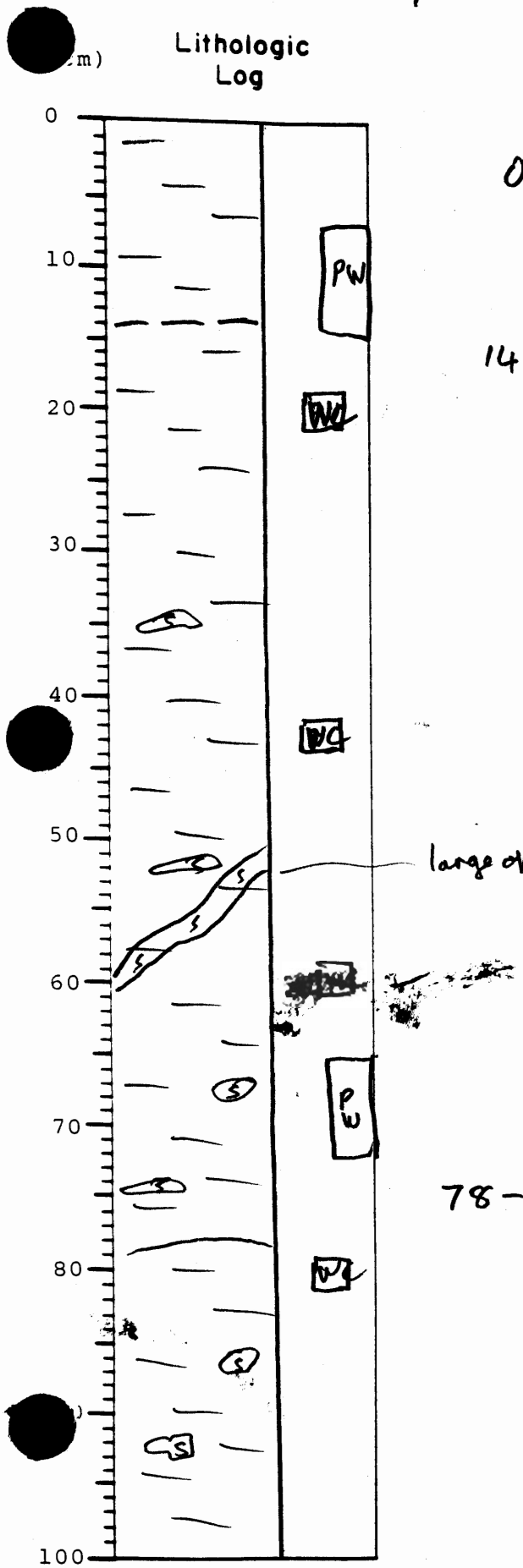
End of TC

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. ____ Core No. PC26



Detailed Description

0-14 Yellowish gray (5Y 7/2) clay on top (3cm) and banded with dark yellowish brown (10YR 4/2) below

14-78 Light olive gray 5Y 6/1 clay grading down into light olive gray 5Y 5/2 clay with greenish tinge. Heavily bioturbated. Sharp basal contact but a bit irregular

Some burrows are open.

large open burrow c. 1cm diam.

78-153 Light olive gray 5Y 6/1 clay

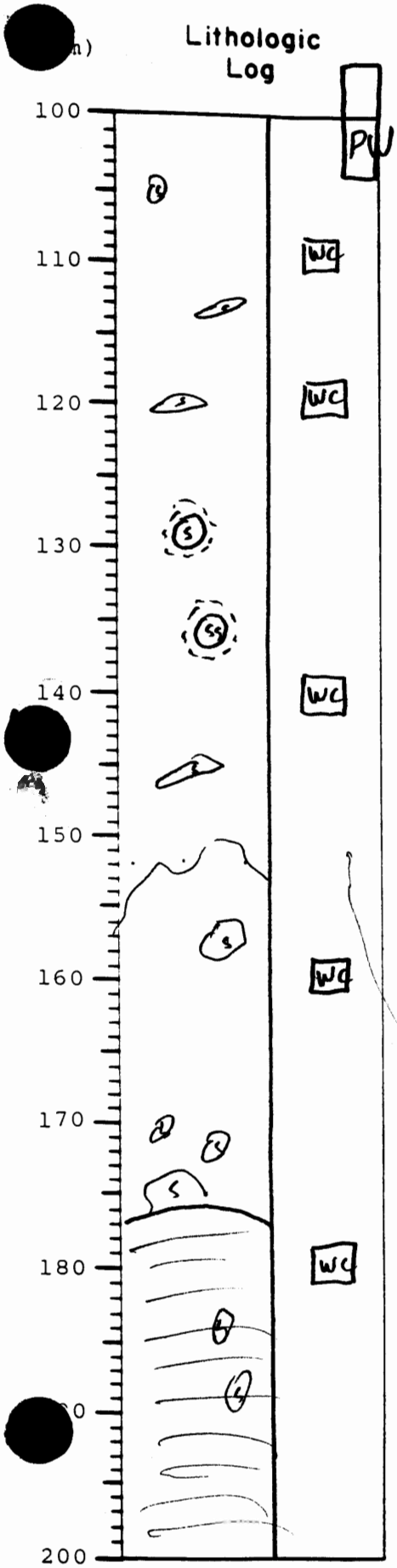
Heavily bioturbated.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC26



Detailed Description

78-153 Light olive gray 5Y 6/1 clay
Heavily bioturbated. Burrows up to 2cm diameter, filled with light olive gray 5Y 5/2 clay and surrounded by medium gray haloes.

Approx. 153cm. Heavily bioturbated colour change. Dominant colour below olive gray 5Y 3/2 clay.

153-177 Olive gray clay 5Y 3/2 with burrow fills of light olive gray 5Y 6/1 clay.

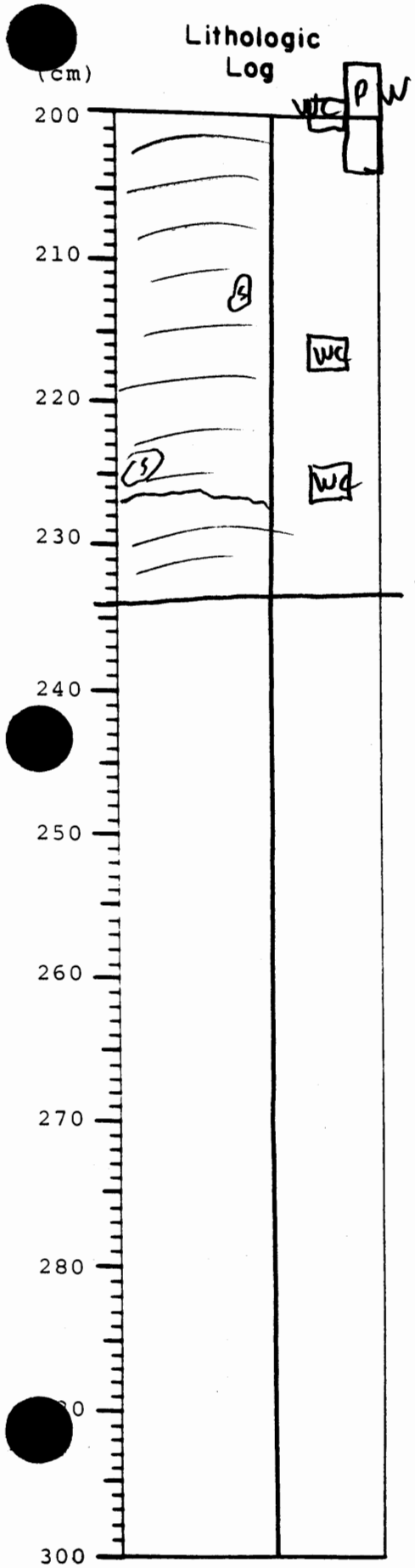
177-227 Very finely laminated clay. Subtle colour banding, but overall grades down from olive gray 5Y 3/2 through light olive gray 5Y 5/2 to light olive gray 5Y 6/1 (looks light gray to me)
Some bioturbation

VISUAL CORE DESCRIPTION

F-4-90

Kenyon desc.

Sta. _____ Core No. PC26



Detailed Description

177-227 Finely laminated clay with subtle colour banding. Overall gradation down from olive gray 5Y 3/2, through light olive gray 5Y 5/2 to 5Y 6/1.

227 Sharp contact. Irregular due to bioturbation

Base

227-Base of core - As above. Finely laminated clay with subtle colour changes. Light olive gray 5Y 6/1 dominates.

VISUAL CORE DESCRIPTION

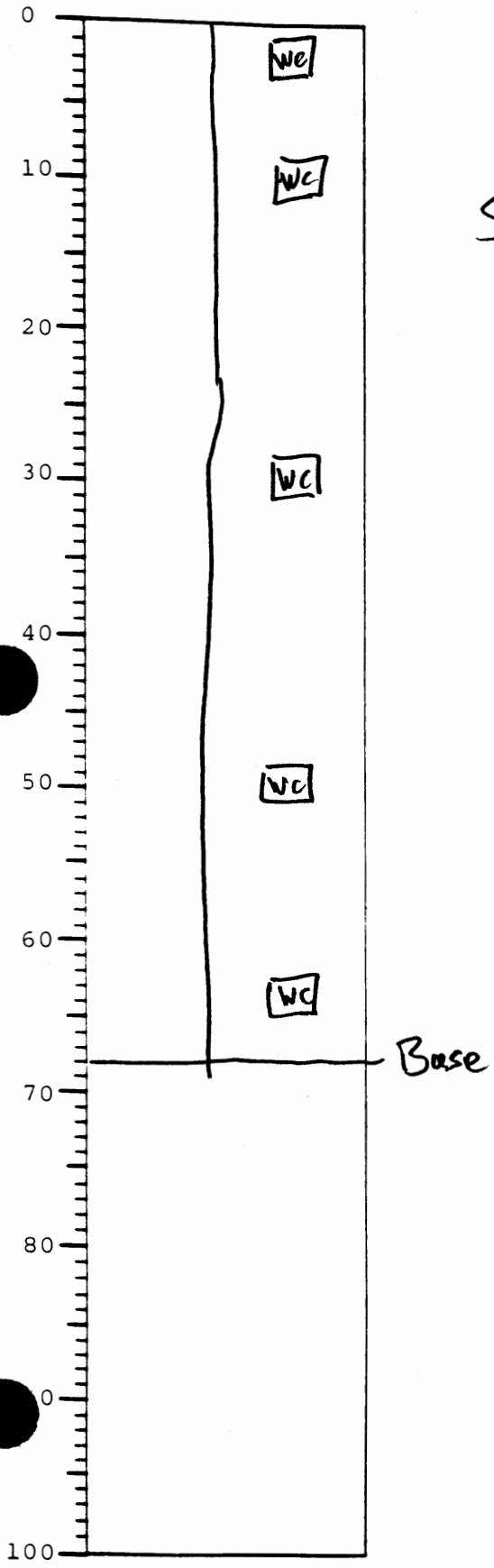
F-4-90

Kenyon

Sta. _____ Core No. TC 26

(cm)

Lithologic Log



Detailed Description

Same as PC 26

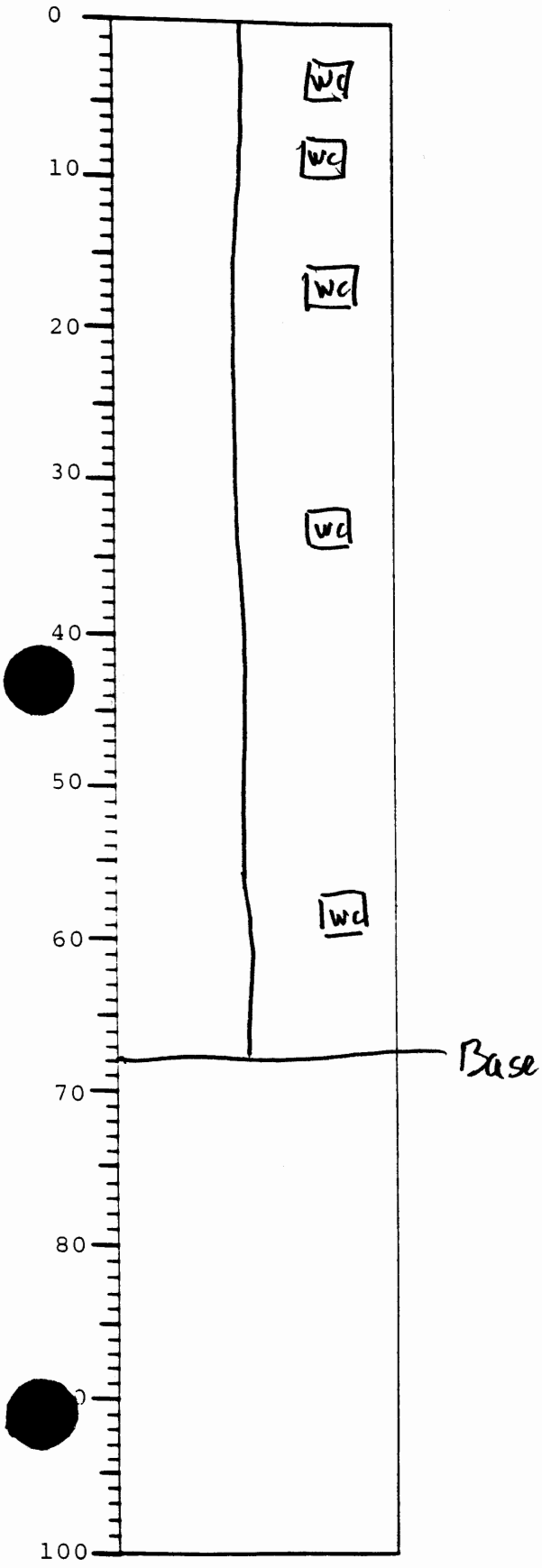
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. IC27

(cm)

Lithologic Log



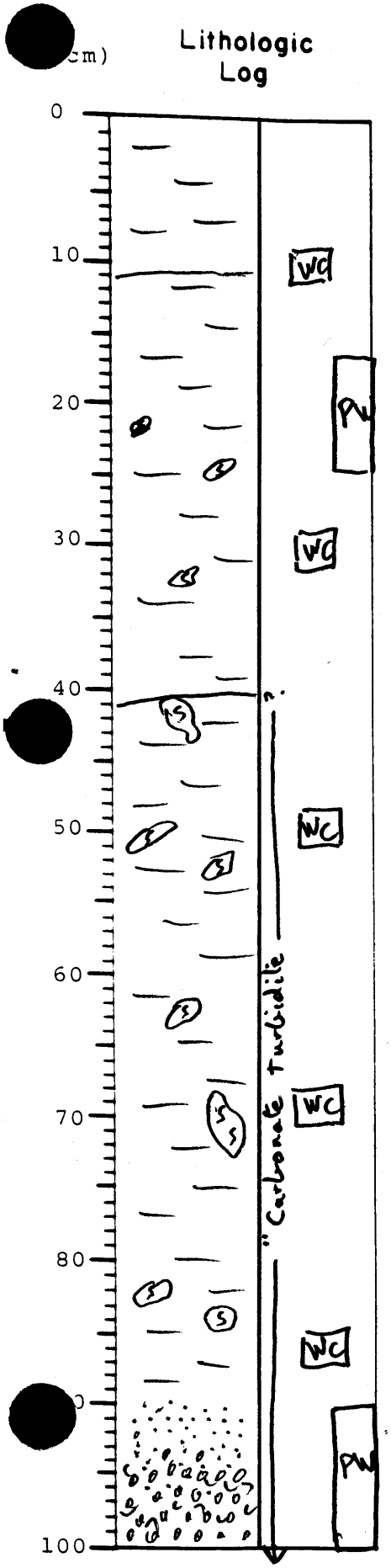
Detailed Description

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 27



Detailed Description

0-11 Banded yellowish gray 5Y 7/2 and light olive gray 5Y 6/1 clay.

11-41 Light olive gray 5Y 6/1 clay grading down near base to light olive gray 5Y 5/2 Heavily bioturbated

41 Sharp but bioturbated contact

41-91 Light olive gray clay 5Y 6/1 Heavily bioturbated.

91-101 Muddy shell sand. Fining upwards Grayish olive 10Y 4/2.

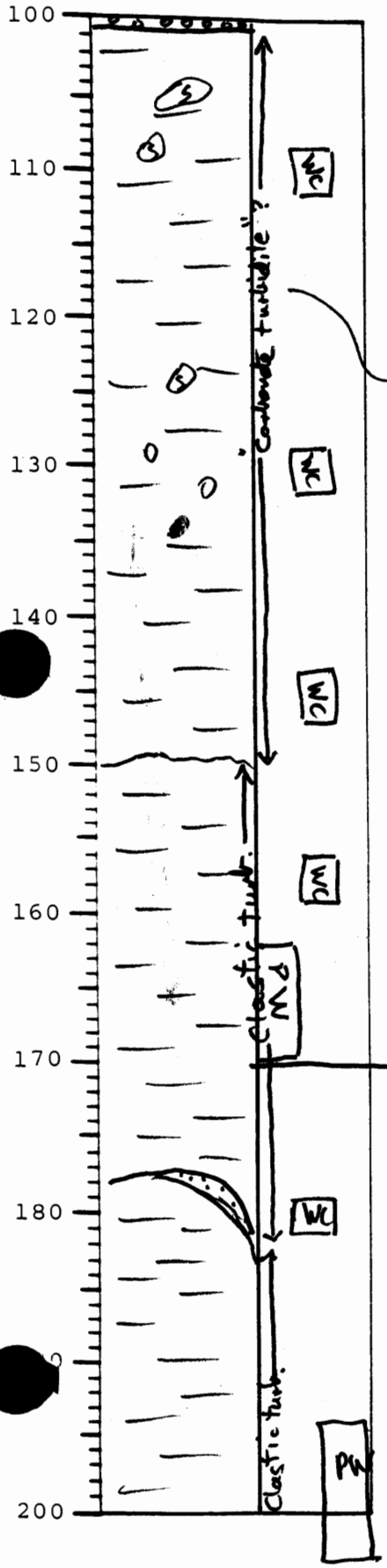
VISUAL CORE DESCRIPTION

F-4-90

Kenyon facit.

Sta. _____ Core No. PC 27

Lithologic Log



Detailed Description

91–101 Muddy shell sand. Sharp base.

101–150 Light olive gray (5Y 6/1) clay with forams, shell frags. Open and filled burrows. Some greenish bands (grayish olive 10Y 4/2)

or hemipelagic?

150 Irregular boundary. May be colour gradation or bioturbated unit boundary (latter preferred)

150–178 Homogeneous olive gray clay 5Y 3/2. No bioturbation

END SECTION

178 Silty layer dragged down side wall. Olive gray 5Y 3/2

179–235

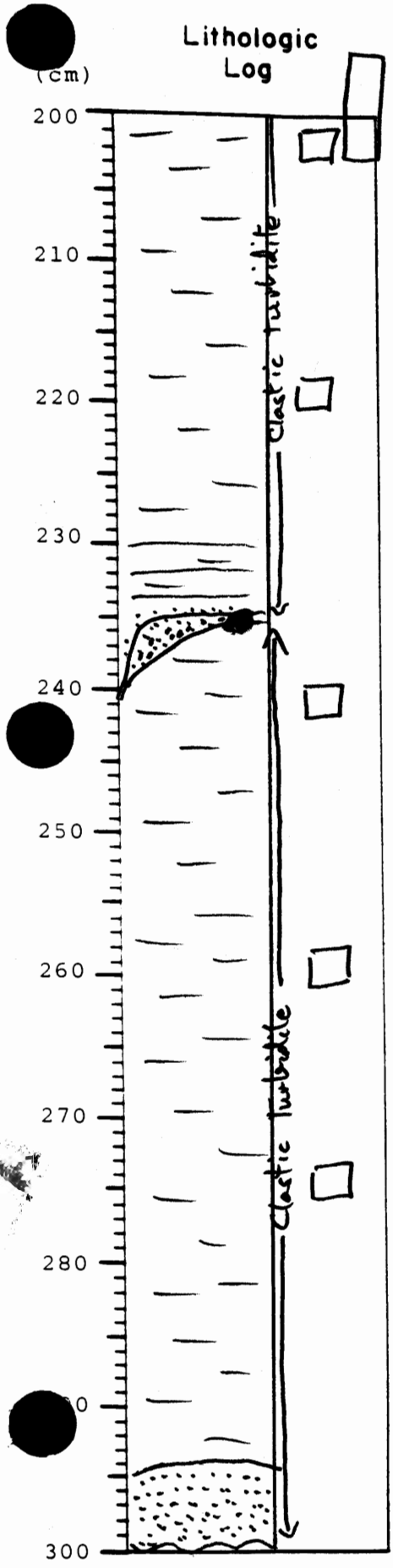
Uniform, homogeneous olive gray clay 5Y 3/2
No bioturbation

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC27



Detailed Description

179 – 235 Uniform olive gray clay 5Y 3/2
No bioturbation.

230 – 235 Coloured clay bands – slightly greener or browner than olive gray clay 5Y 3/2. No apparent grain size change. (10Y 4/2 / 5Y 4/4)

235 Top of olive gray silty band, dragged down side of band. Probably originally about 1 cm thick
Fining upward.

235 – 295 Uniform olive gray clay
No bioturbation

295 – 300 Olive gray silt. Laminated at top
5Y 3/2

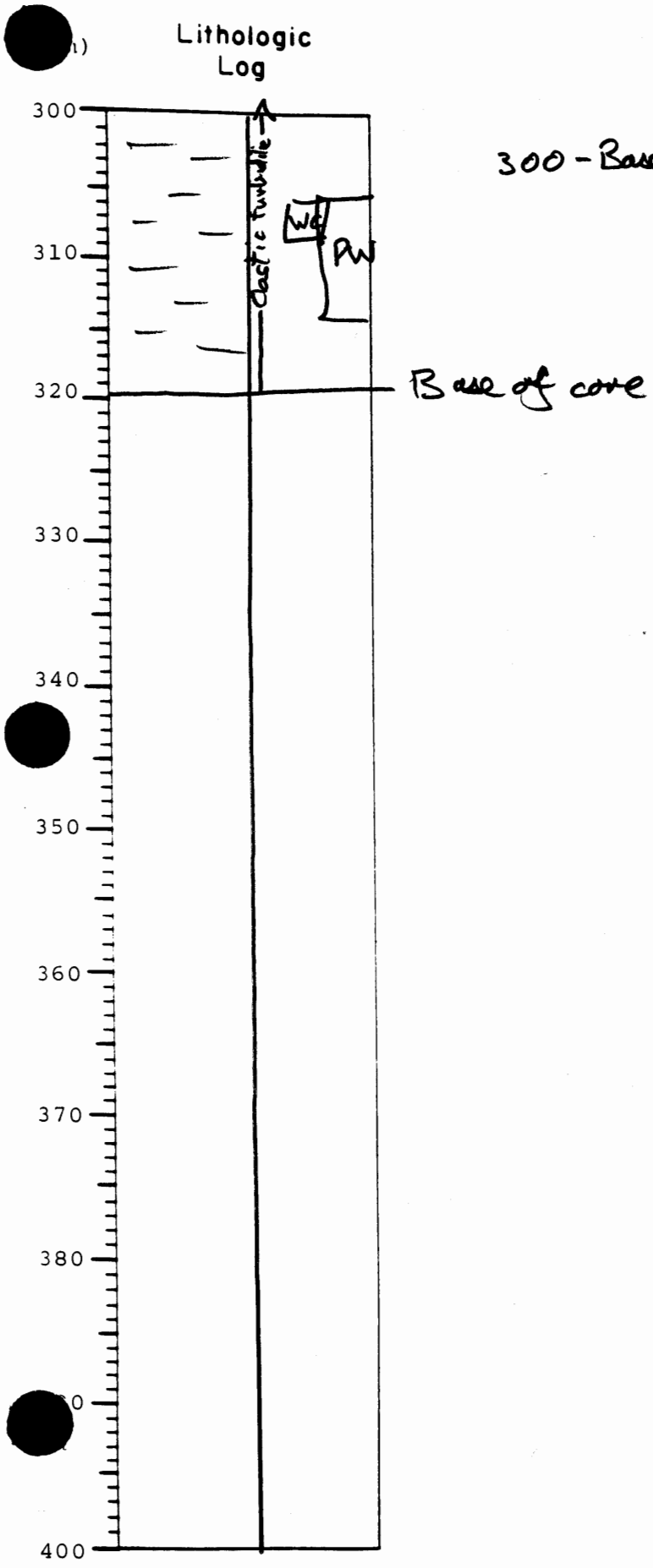
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 27

Lithologic Log



Detailed Description

300 - Base

Uniform olive gray clay
No bioturbation

VISUAL CORE DESCRIPTION

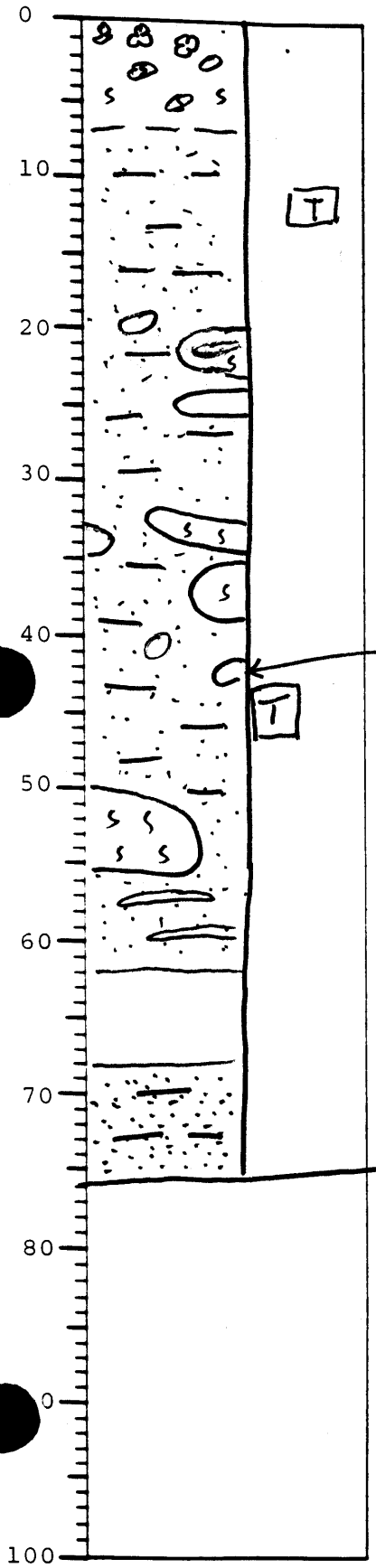
F-4-90

Kenyon

Sta. _____ Core No. TC 28

(cm)

Lithologic Log



Detailed Description

0-7 Moderate yellowish brown 10YR 5/4 foram sandy mud with mud below (slightly darker - moderate brown 5YR 4/4)

7-62 Olive gray silty mud 5Y 3/2 with large mud filled burrows. Burrow fill mainly dark yellowish brown 10YR 4/2 clay.

NOTE "Burrows" later reinterpreted as mud clasts in debris flow deposit

50-55 Black mottled blebs within clay filled burrow

62-68 Dark yellowish brown clay 10YR 4/2

68-BASE Dark yellowish brown 10YR 4/2 silty clay

VISUAL CORE DESCRIPTION

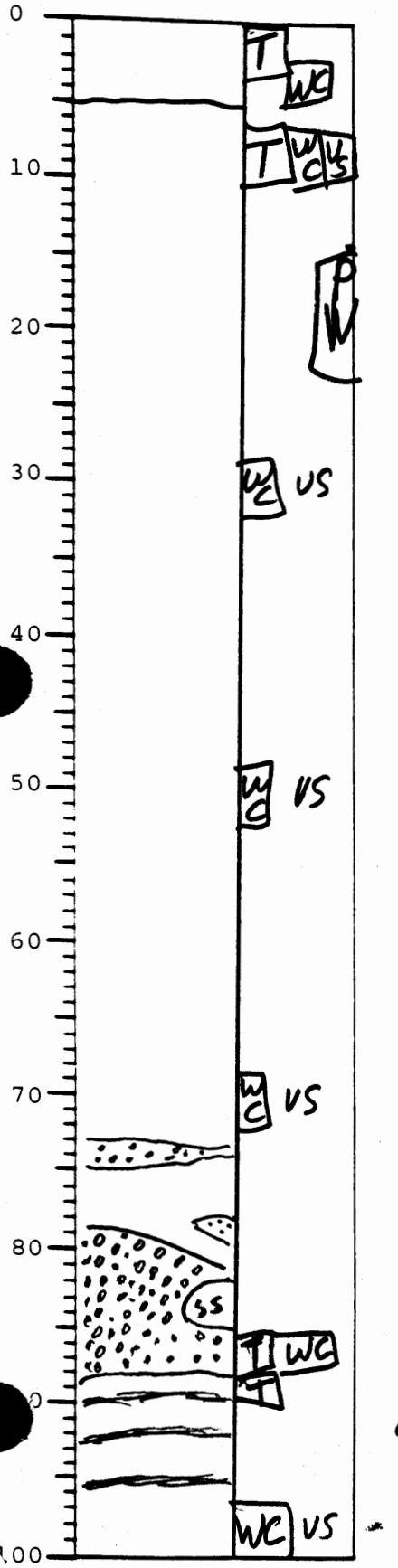
F-4-90

Kenyon

Sta. _____ Core No. PC28

Lithologic Log

(cm)



Detailed Description

yellow clay

Trigger core is much better looking than the piston core.

75-79 Dark yellowish brown 10YR 4/2 clay.

79 ~~sa~~ Olive gray (5Y 3/2) slightly muddy silty sand. Some dark gray N3 organic blobs. Medium grain size and roundness. Fairly well sorted. Mixed composition

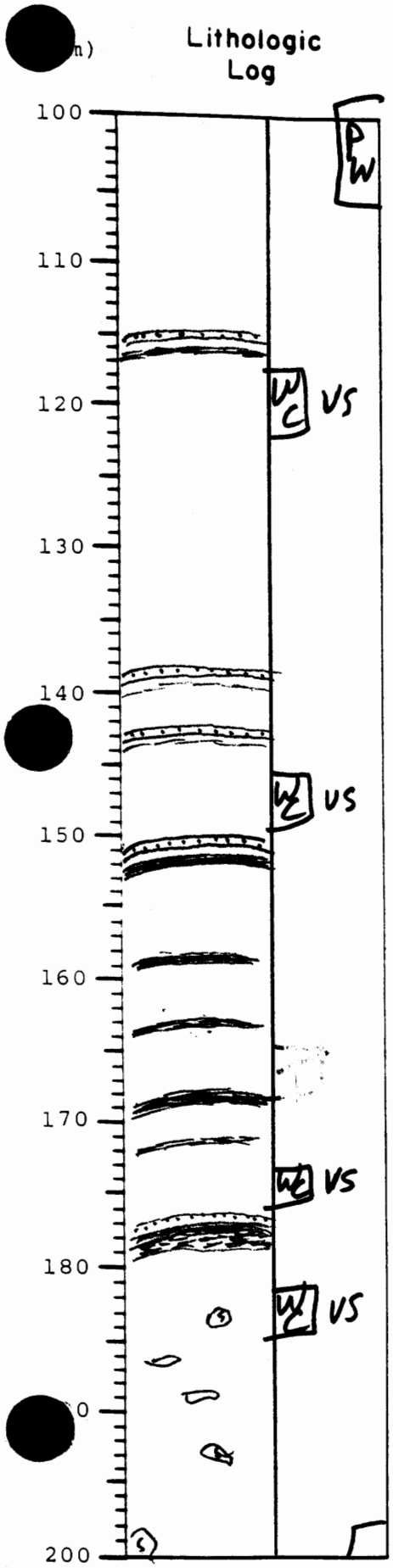
90, 92, 95 Black N2, organic bands

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 28



Detailed Description

90-130 Small black blebs ? burrow-sites

100-200 Dark yellowish brown clay apart from silts noted below 10YR 4/2

115 0.3 cm silty band with mottled dark gray organic band beneath.

139 0.3 cm silty band with faint dark gray organic band beneath

143 0.3 cm silty band " " " "

151 0.4 cm silty band with 1 cm black N1 organic band beneath

159, 163, 168 and 173 Black organic bands with no silt associated

177 Thin 0.2 cm silty band with 2 cm mottled organic black band below.

184-200 Burrows & mottling with black organic mud fills

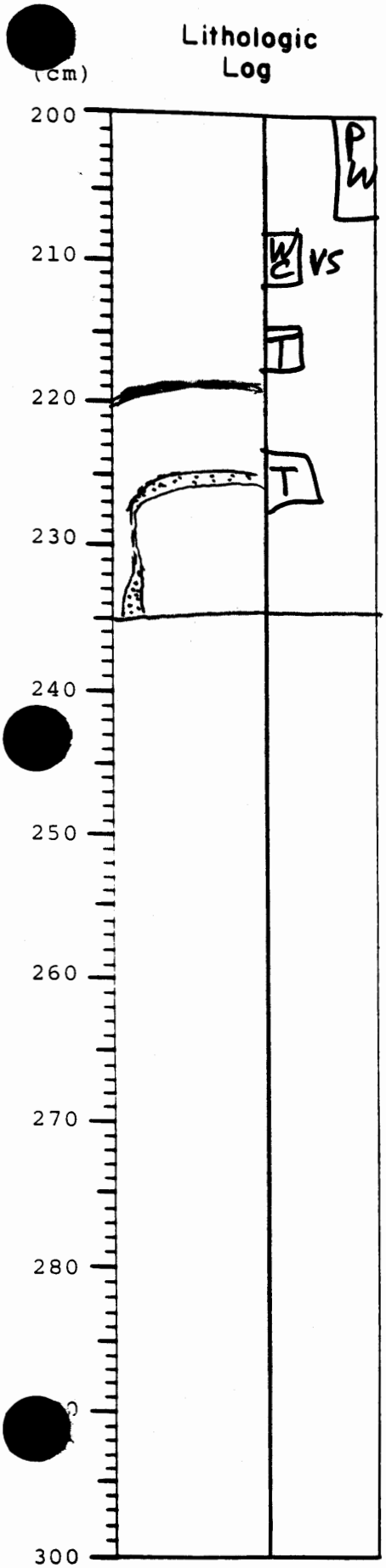
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC28

Lithologic Log



Detailed Description

200-225 Mottled dark yellowish brown clay 10YR 4/2

219 Black organic band.

225 Probably circa 0.5 cm muddy silt - distorted by coring

226 - Base Grayish olive homogeneous clay 10Y 4/2.

BASE OF CORE

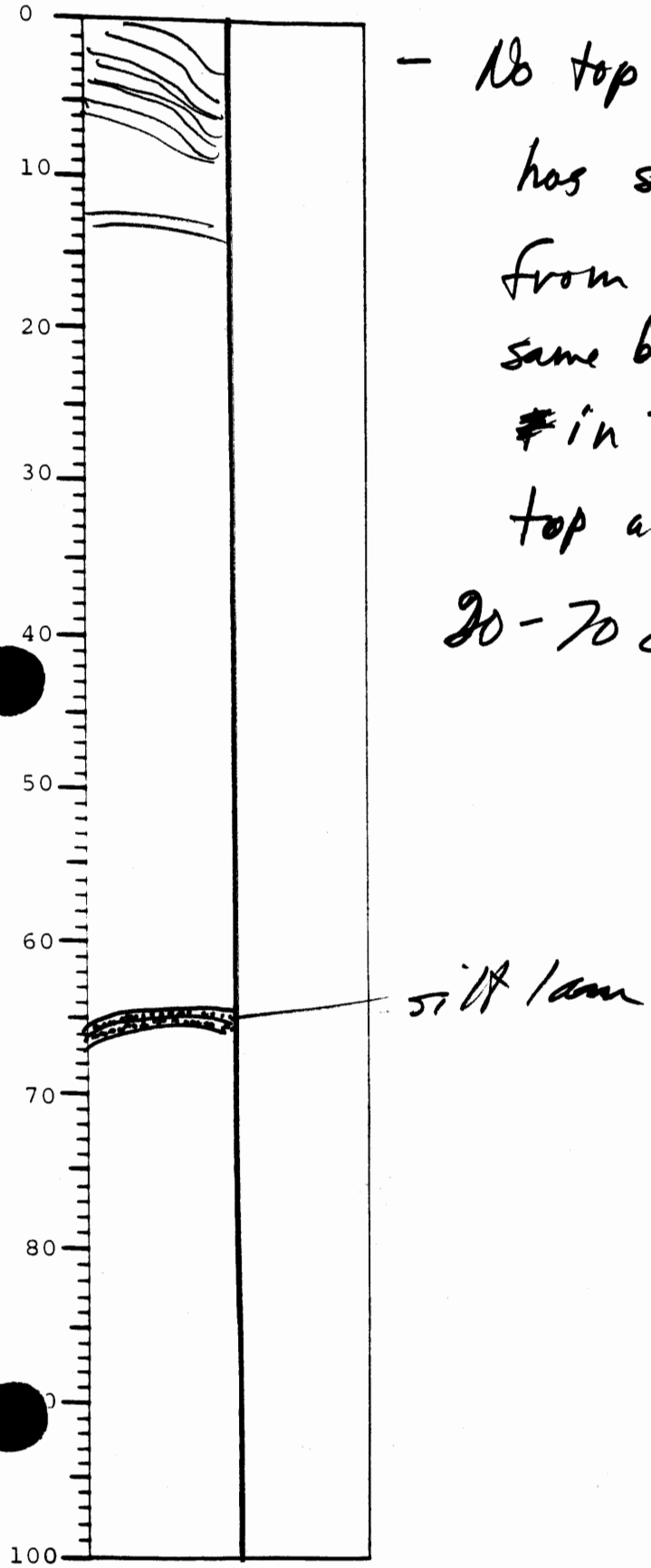
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC29

(cm)

Lithologic Log



Detailed Description

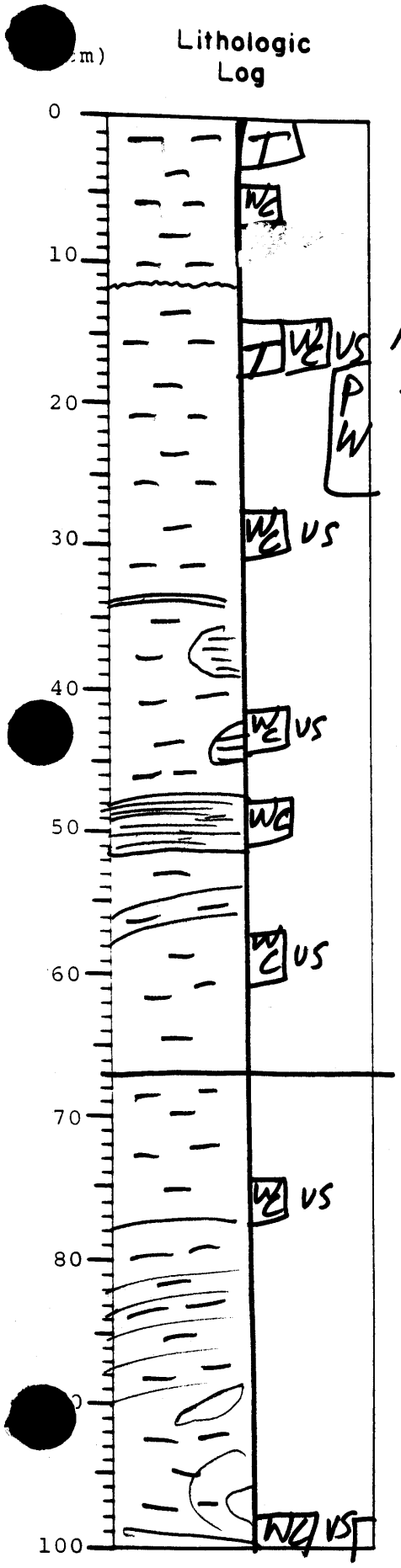
- No top yellow clay but @ top has same bands that are seen from 10 - 20 cm in PC the same bands are expanded ca ≈ 50% # in TC ∴ PC is compressed @ top as has been noted in other cores.

20 - 70 cm some dark bands

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC29



Detailed Description

0-12 Moderate yellowish brown
contact transitional
12 & throughout core olive brownish gray clay
~5Y 3/2
12-23 subtle lter + darker banding

33cm dark banding + blobs occur in clay
↳ 51cm

51-130 faint banding + lamination
of irregular nature

End of first section

88.

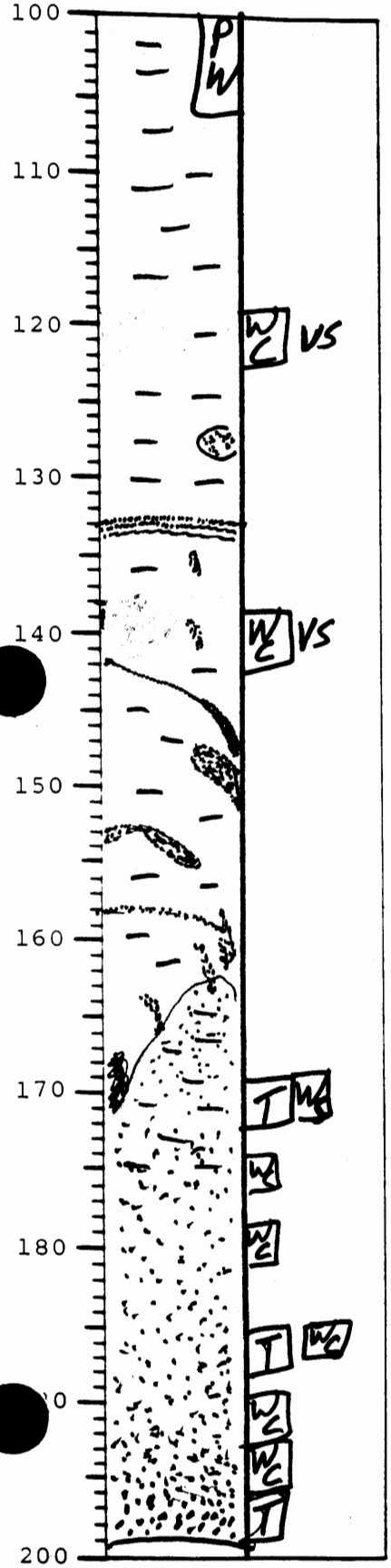
88-100 very subtle chaotic structures

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 29

Lithologic Log



Detailed Description

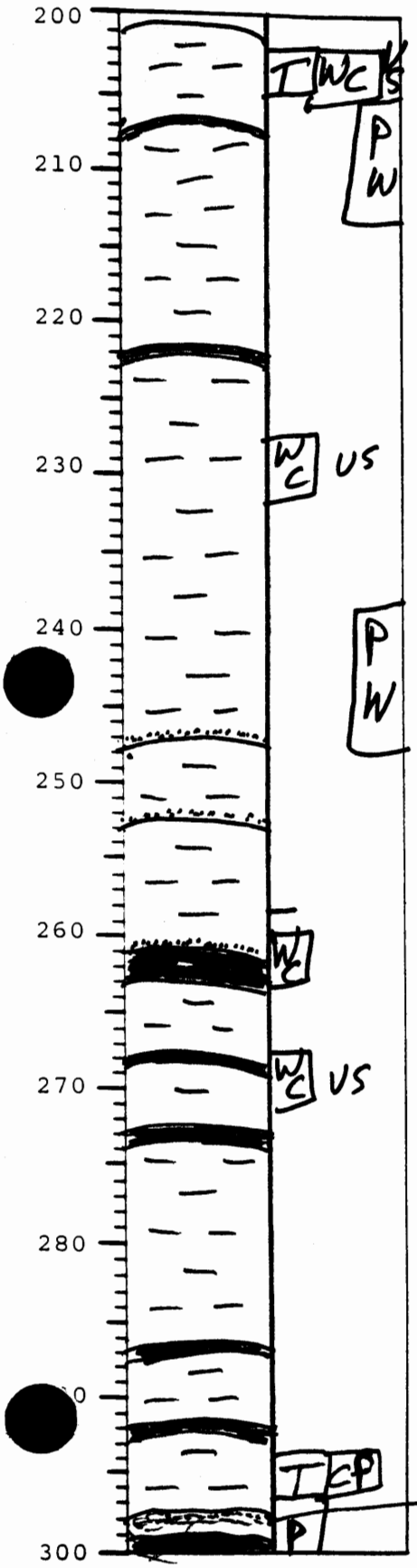
165 – 199 very fine sand grading to clayey silt, graded turbidite

– massive w/out visable gradation in structures

sharp basal contact

Sta. _____ Core No. PC29

Lithologic Log



Detailed Description

200- 366 Brownish gray clay with dark bands.

350- 365 silt bands of 1mm w/ organic "

∞ sand 277 - 278 — paleo cf check if planktonic winnowed or turb off Flamingo

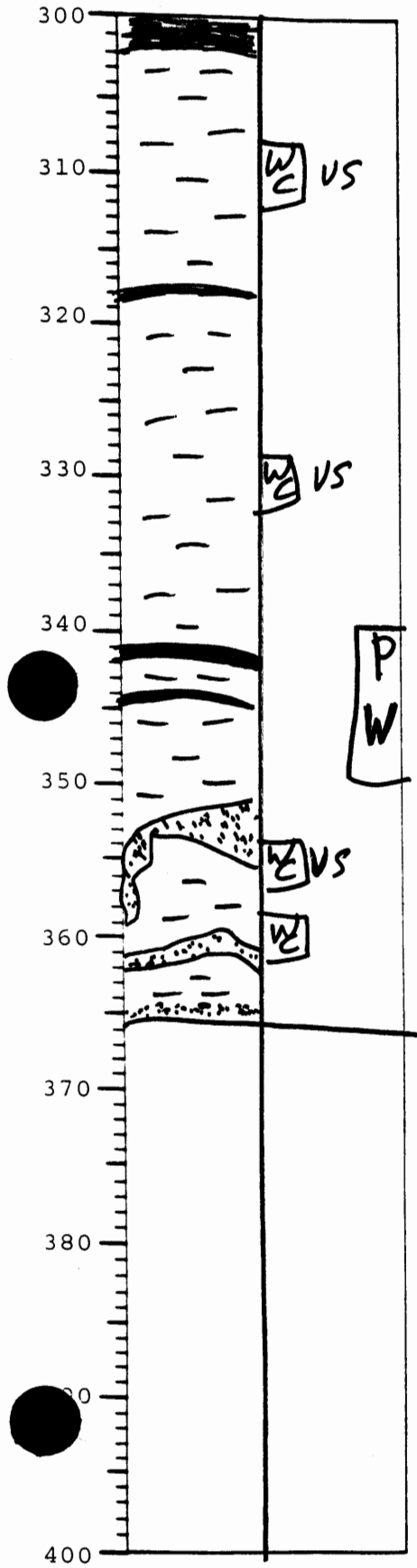
Dark yellowish brown layer below ∞ sand

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC29

Lithologic Log



Detailed Description

299-302 = dark olive black clay band

351-354 silt bed

361-362 silt bed

End of section

365 - silt bed

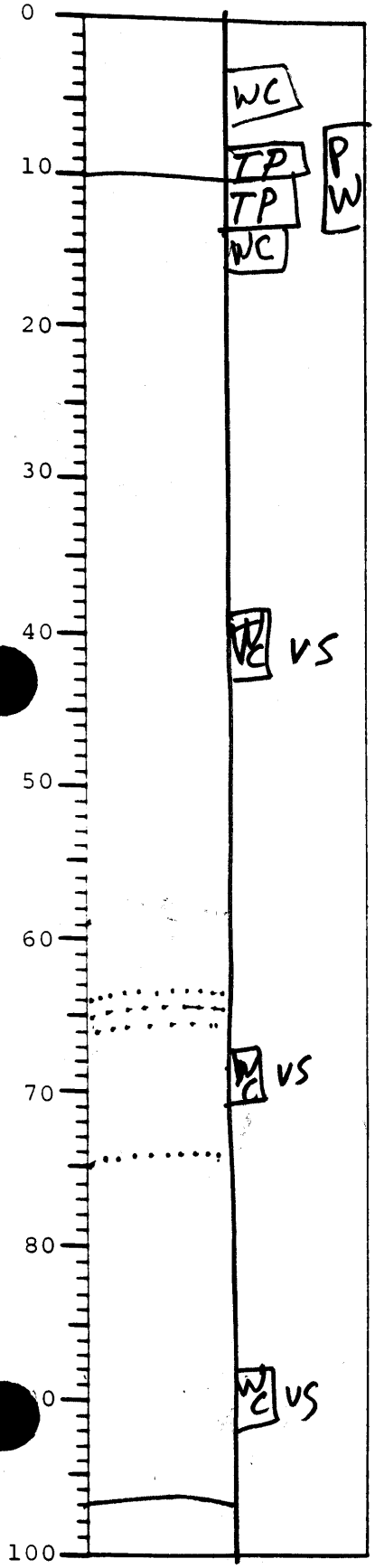
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC30

(cm)

Lithologic Log



Detailed Description

0-10 Moderate yellowish brown & rich clay - relative conc. questionable because some washing up & down barrel & hole drilled to drain water off. ∴ no texture here - also trigger core is anomalous, ie, yellow is missing & then duplicated 2X down core

Sample above & below 10 cm to try & separate Holocene & Pleist

11-25 cm olive gray 5Y 3/2

becoming more brownish after 25 cm except for 64, 66, 76 where thin silt horizons occur w/ black laminae

sub the color banding 97-140

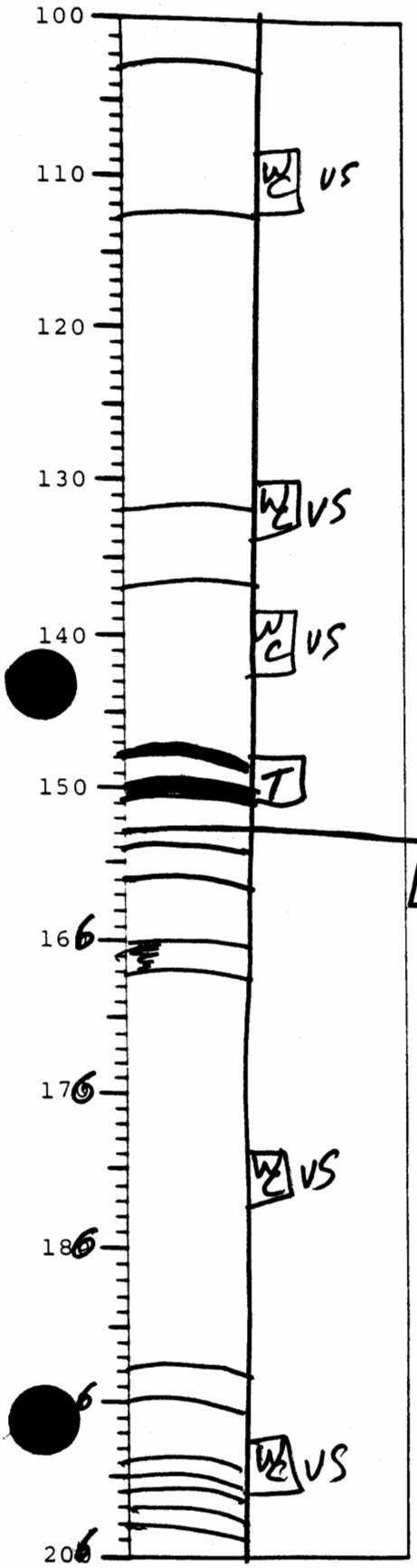
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 30

Lithologic Log

Detailed Description



End of section of homogeneous clay
6 cm piece is found between

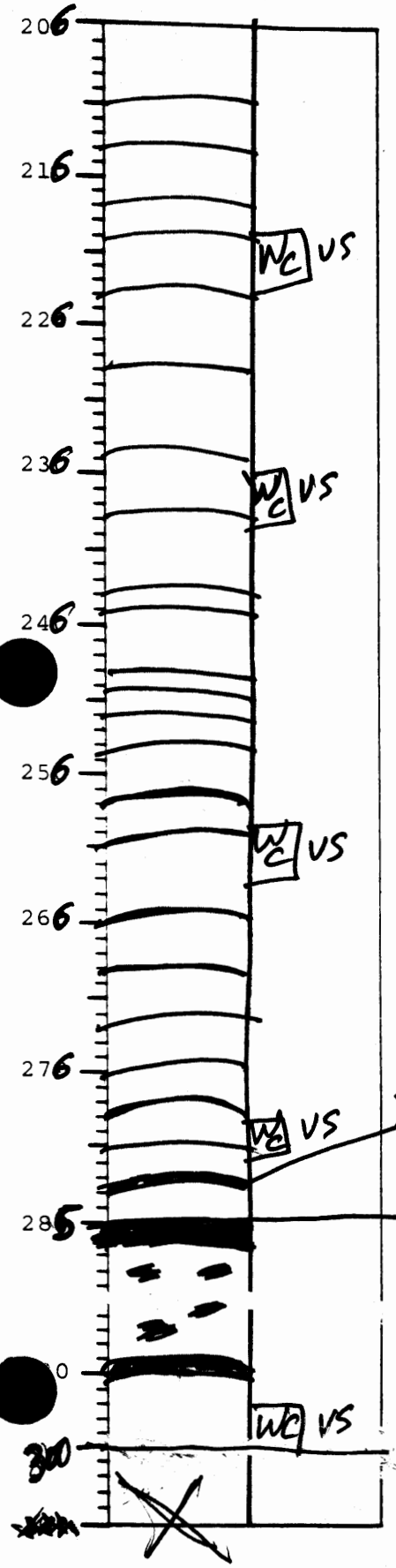
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 30

Lithologic Log

(cm)



Detailed Description

Below 200 general regular banding of 1 cm olive black clay layers spaced a ≈ 2-5 cm intervals in olive gray clay
- w/ no general bioturbation evident

etc for thick dark bands back to 150 cm

Thick dark bands end @ ≈ 295

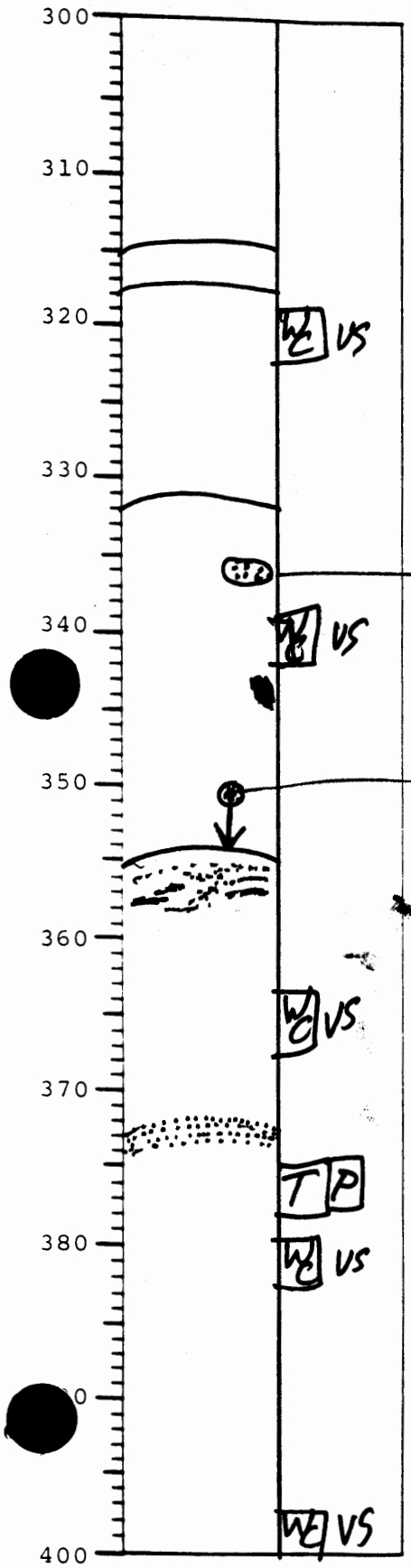
end of section 2

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 30

Lithologic Log



Detailed Description

After 295-330 - Thin 1-3 mm dark bands

silt bleb of siliciclastic debris

round burrow 2 mm filled w/ ⌀'s

355-358 irregular ⌀ laminae blebs mixed w/ clay w/ darker olive clay below to 360 cm - with 5 mm burrows evident in both

373-374 silty sand laminae of clear ⌀'s (see correlated w/ PC 29

@373 a color change from dusky yellowish brown 10YR 2/2 above to olive gray 5Y 4/1 below

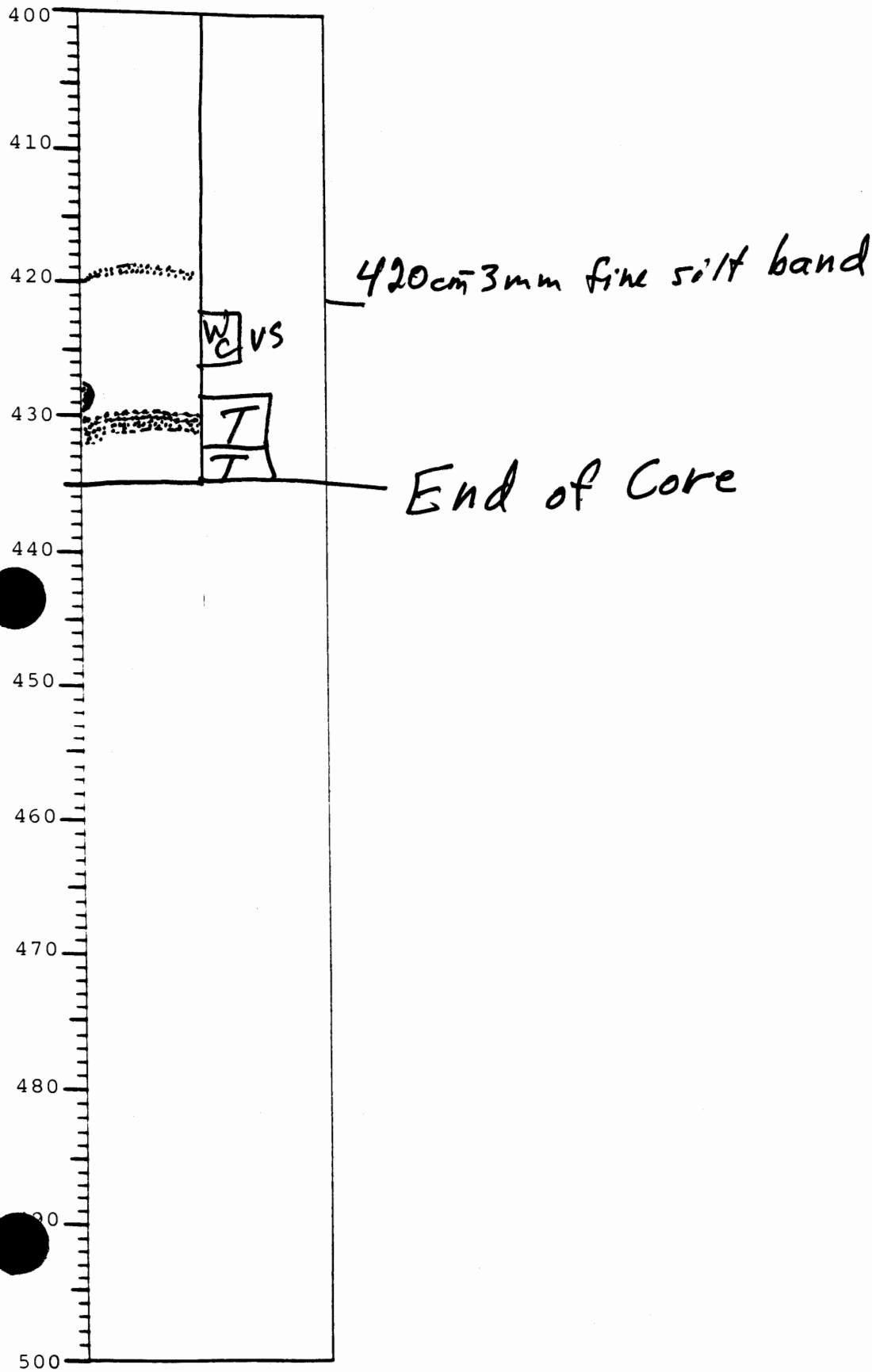
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC30

Lithologic Log

Detailed Description



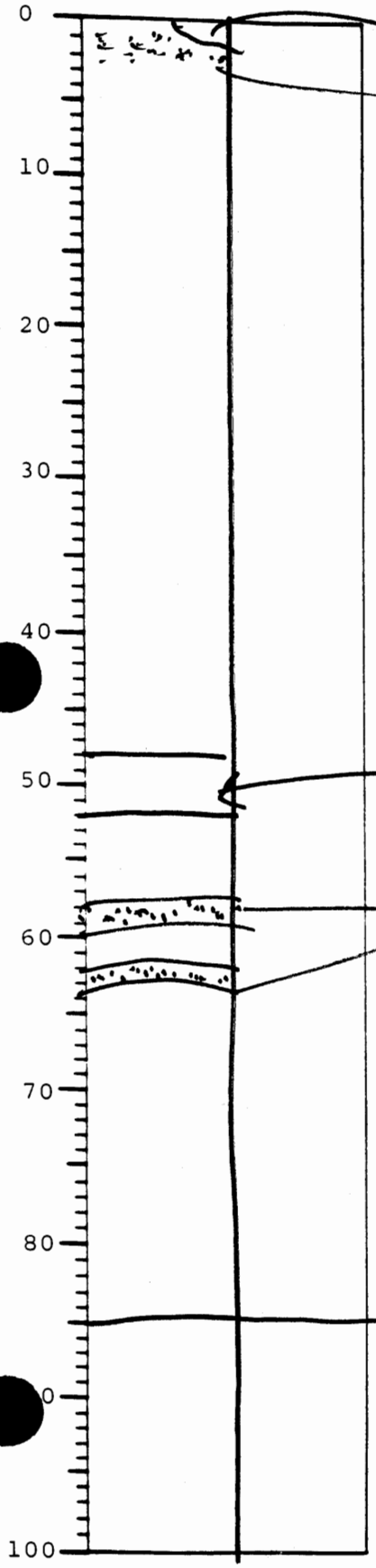
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC 30

(cm) Lithologic Log

Detailed Description



yellow clay blob otherwise missing silt bed

all olive gray clay

Not correlative w/ PC & has mysterious silt beds not found in PC

indurated yellow clay repeated

silt beds not found in PC

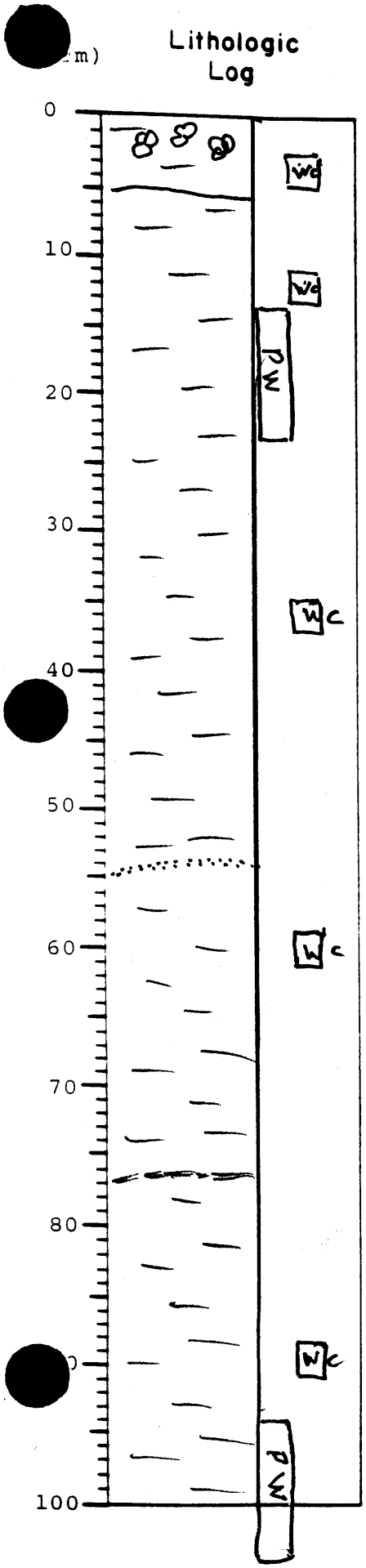
end of trigger

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 31



Detailed Description

0-5 Moderate yellowish brown foram sandy clay separated by thin 0.2 cm of iron stained clay - 10YR 5/4 moderate brown 5YR 4/4

5-55 Dark yellowish brown 10YR 4/2 clay Wet and sticky.

55 0.3 cm silty clay with 0.1 cm black organic band at base.

55- Dark yellowish brown 10YR 4/2 clay, some small black blebs. Wet and sticky.

77 Dark gray organic band

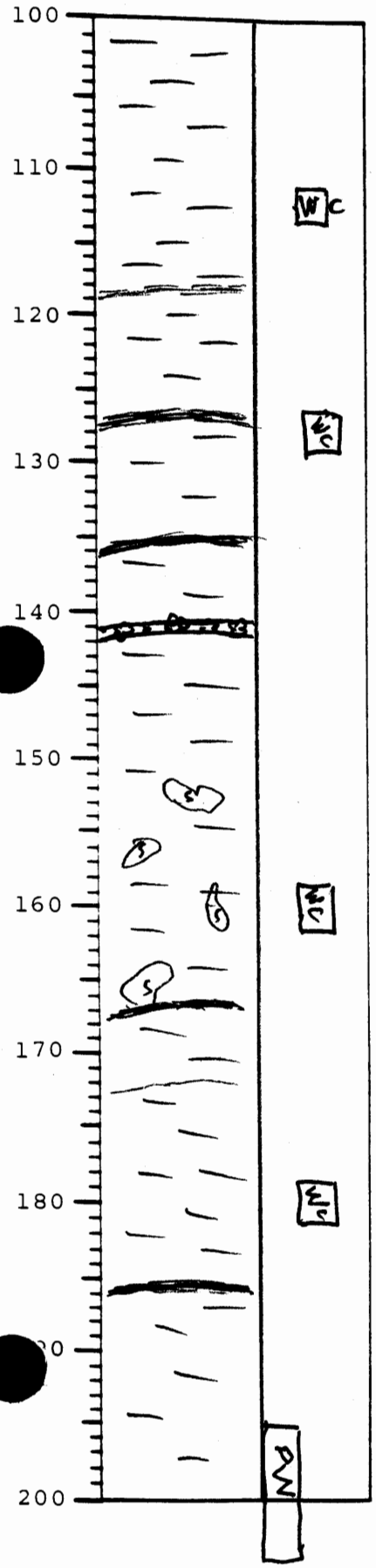
VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. PC31

Lithologic Log



Detailed Description

55-141 Dark yellowish brown clay 10YR 4/2 with small black blebs. Occasional dark gray organic bands.

141 0.5 cm Dark yellowish brown clay with forams. 10YR 4/2

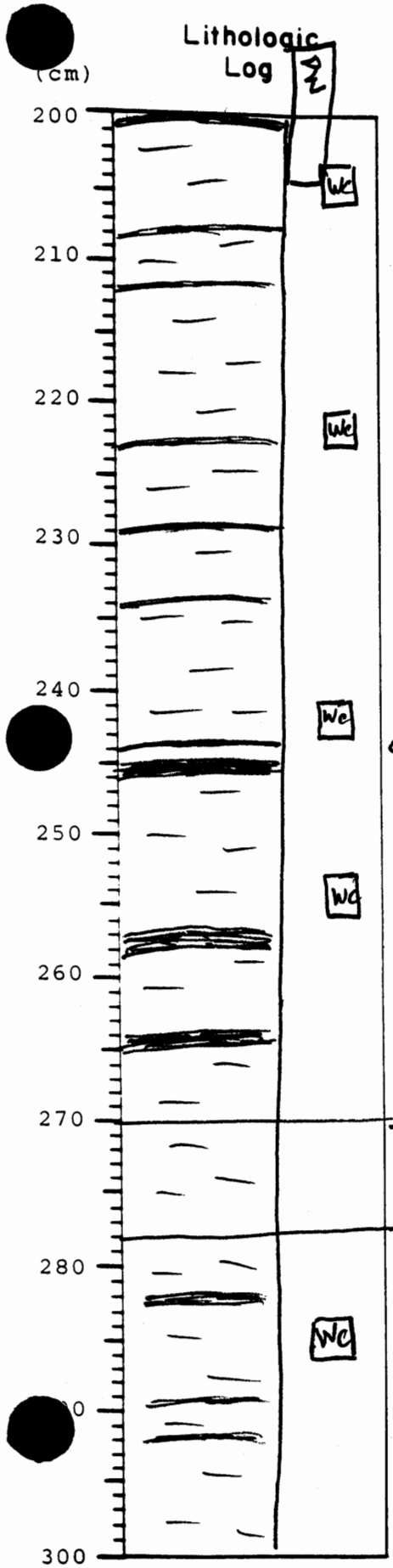
141-244 Dark yellowish brown clay 10YR 4/2

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC31



Detailed Description

144-244 Dark yellowish brown clay 10YR 4/2 Homogeneous.

← Sharp colour change. 1cm black organic band below

244-Base Dark yellowish brown clay 10YR 4/2 with faint greenish tinge.

END SECTION

270-278 Separate piece between section B and C

END SECTION

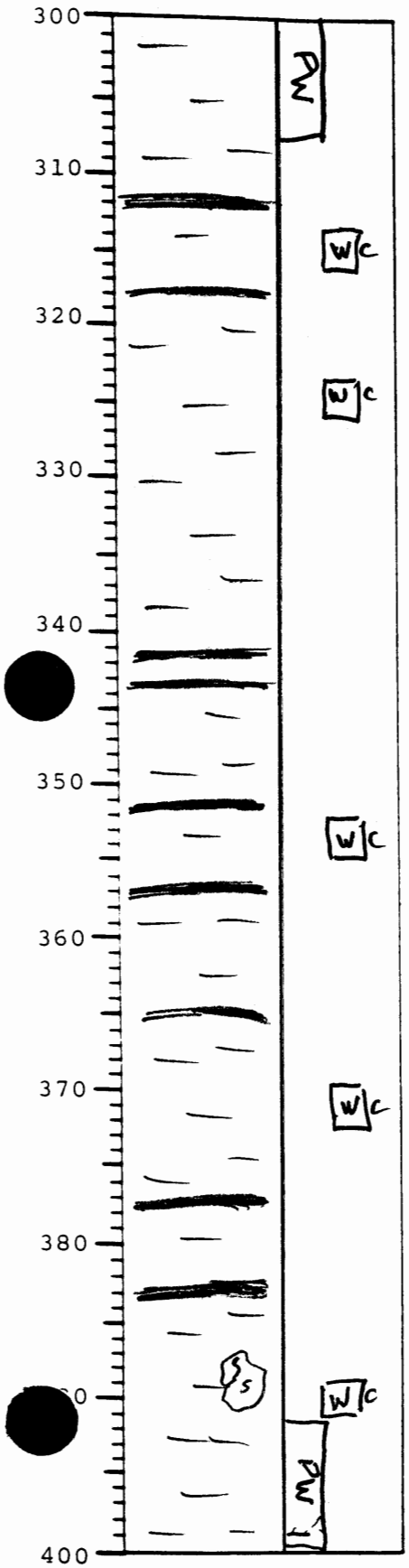
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC31

Lithologic Log



Detailed Description

244- Dark yellowish brown clay 10YR 4/2

Homogeneous

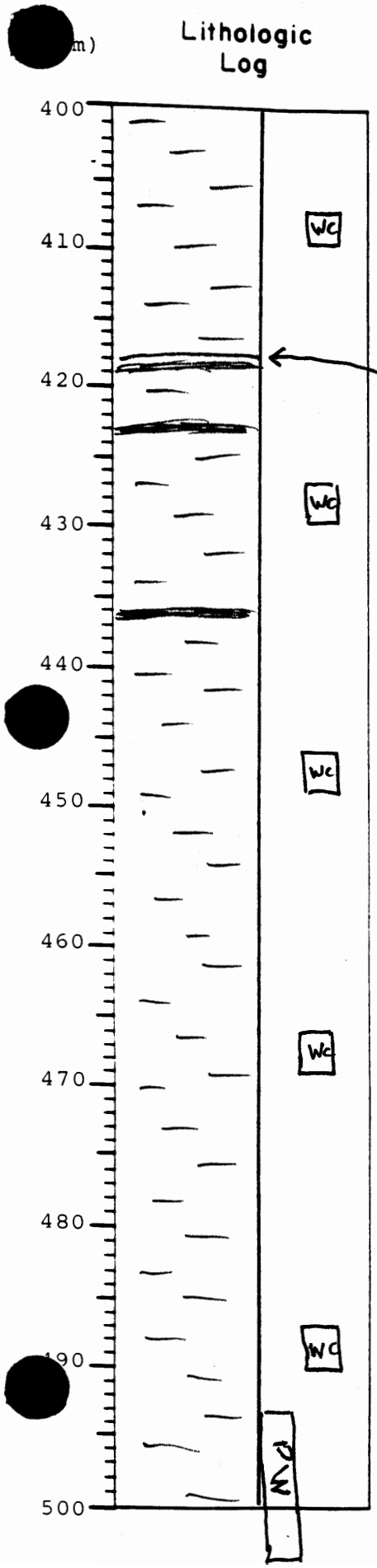
VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. PC31

Lithologic Log



Detailed Description

Homogeneous dark yellowish brown clay 10YR 4/2

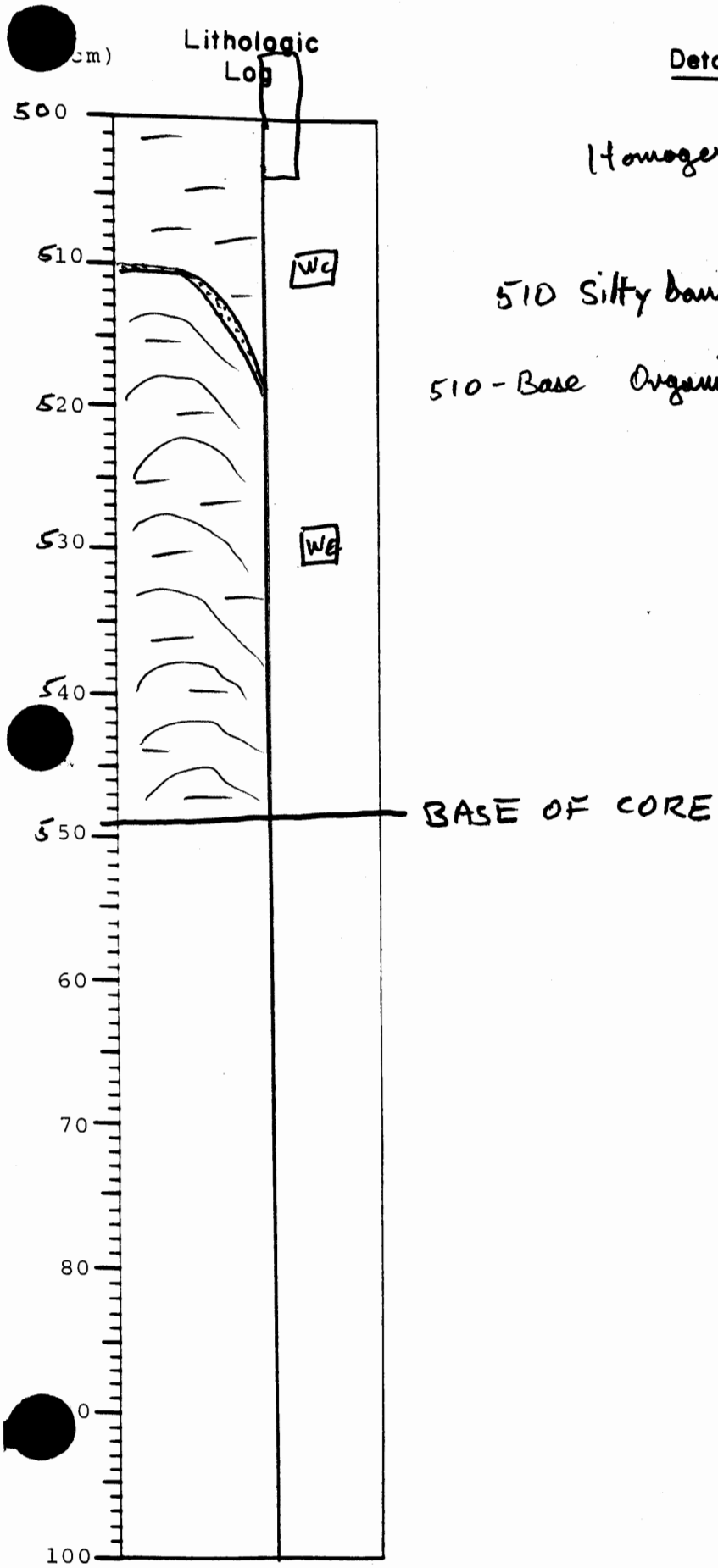
418- Faint colour change. Sharp boundary

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 31



Detailed Description

Homogeneous dark yellowish brown clay 10YR 4/2

510 Silty band - dragged down side of barrel.

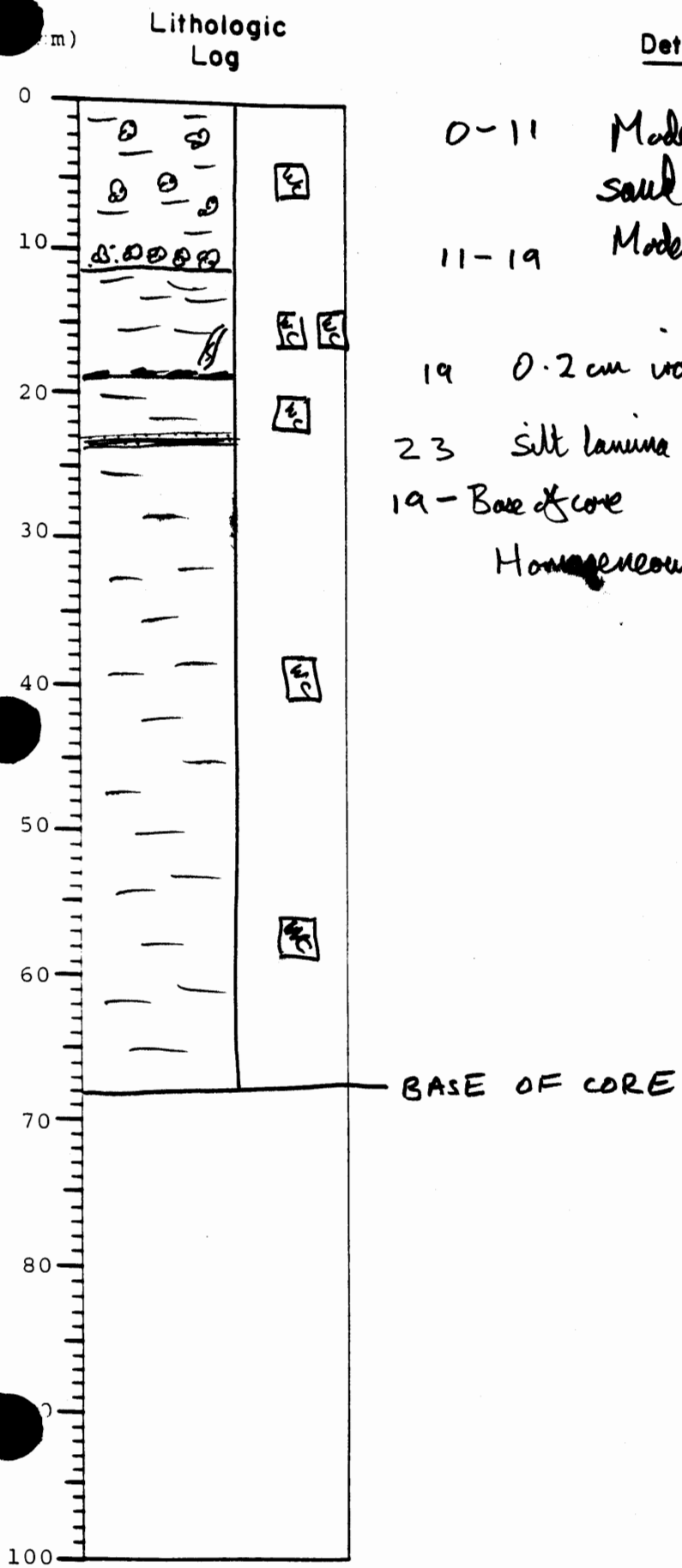
510 - Base Organic band pulled down either side of core.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. IC 31



Detailed Description

0-11 Moderate yellowish brown muddy foram sand. Olive green mottled patches 10YR 5/4

11-19 Moderate yellowish brown sandy mud 10YR 5/4

19 0.2 cm iron band. Indurated clay. Moderate brown 5YR 4/4

23 Silt lamina, 0.2 cm thick

19 - Base of core

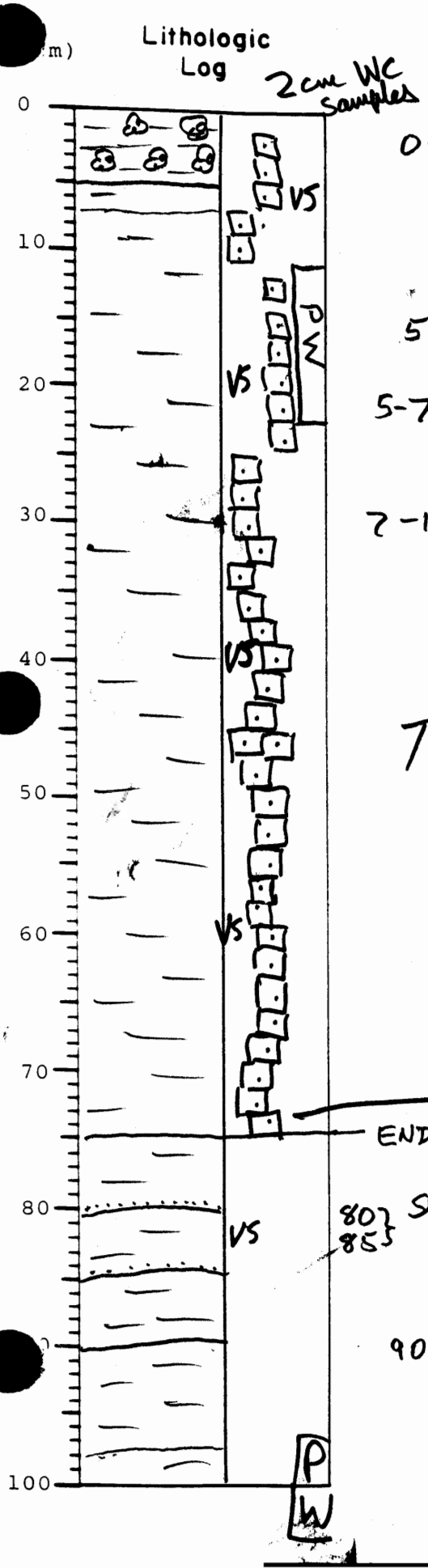
Homogeneous dark yellowish brown clay 10YR 4/2

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC32



Detailed Description

0-5 Moderate yellowish brown (10YR 5/4) slightly muddy foram sand. Some primary bedding
NOTE TC32 has 10cm more sand on top

5 Dark yellowish orange 10YR 6/6 - iron band

5-7 Dark yellowish brown 10YR 4/2 clay with slight greenish tinge

7-139 Dark yellowish brown 10YR 4/2 homogeneous clay.

Textural samples taken from TC32 because better preserved + does not have any double hits

All remainder of the core sampled @ 2cm for WC

END OF SECTION

80 } 85 } Sharp boundary - silt above grading upwards

90 Sharp boundary. Only slight change in colour

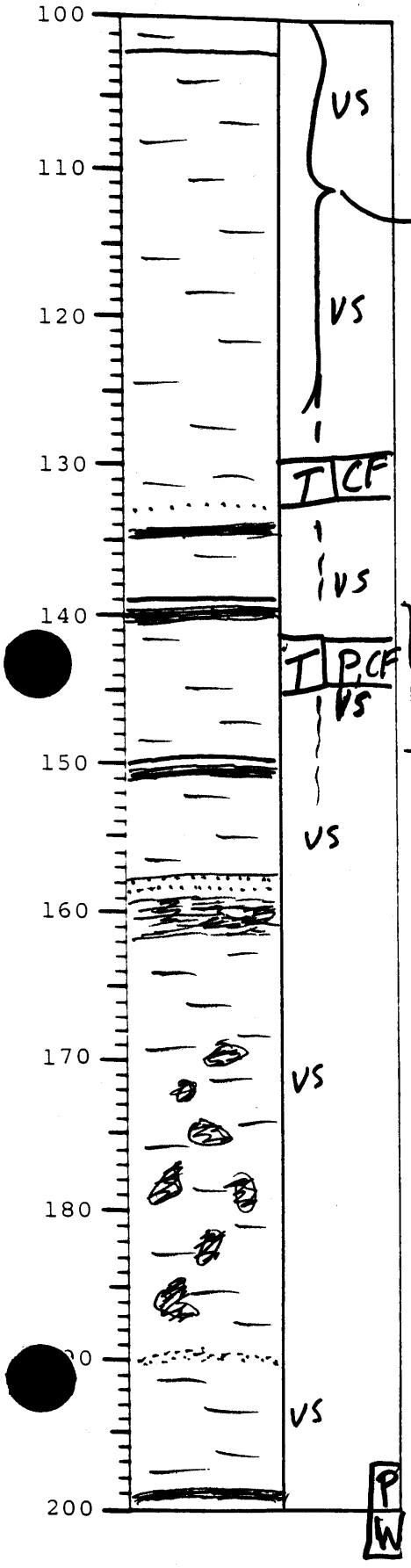
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 32

Lithologic Log



Detailed Description

102 Faint colour change at sharp boundary

Entire section sampled every 2cm for detailed WC

134 Very thin silty lamina

135 Start of black organic bands.

140-150 Homogeneous pale brown clay 5YR 5/2
Gray black organic band below upper and lower contact

Marked colour change

150- Dark yellowish brown clay 10YR 4/2

158 Sharp contact with overlying clay appears to be above silt lamina

159-162 Mottled black organic material in layer.

168-190 Patches of black organic material

190 Thin silt band

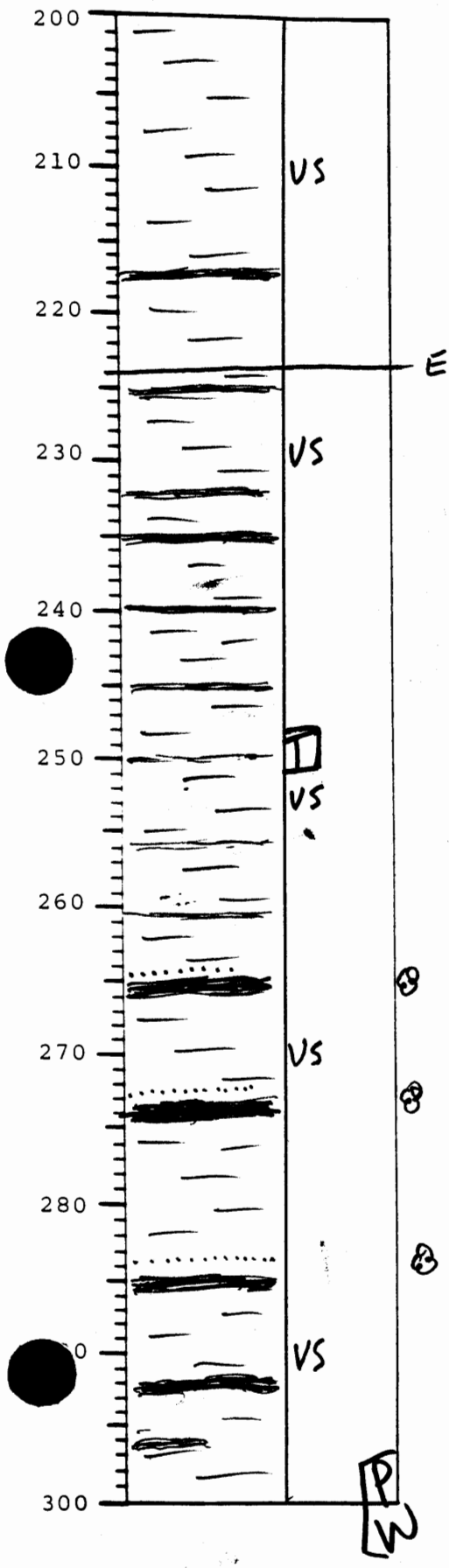
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC32

Lithologic Log



Detailed Description

150- Dark yellowish brown clay 10YR 4/2. throughout. Very uniform colour

Black organic bands throughout, as illustrated. About 1cm thick on average

END OF SECTION

250-260 Small organic blebs. Black.

264, 273 and 284 Foram concentrations circa 0.1cm. thick.

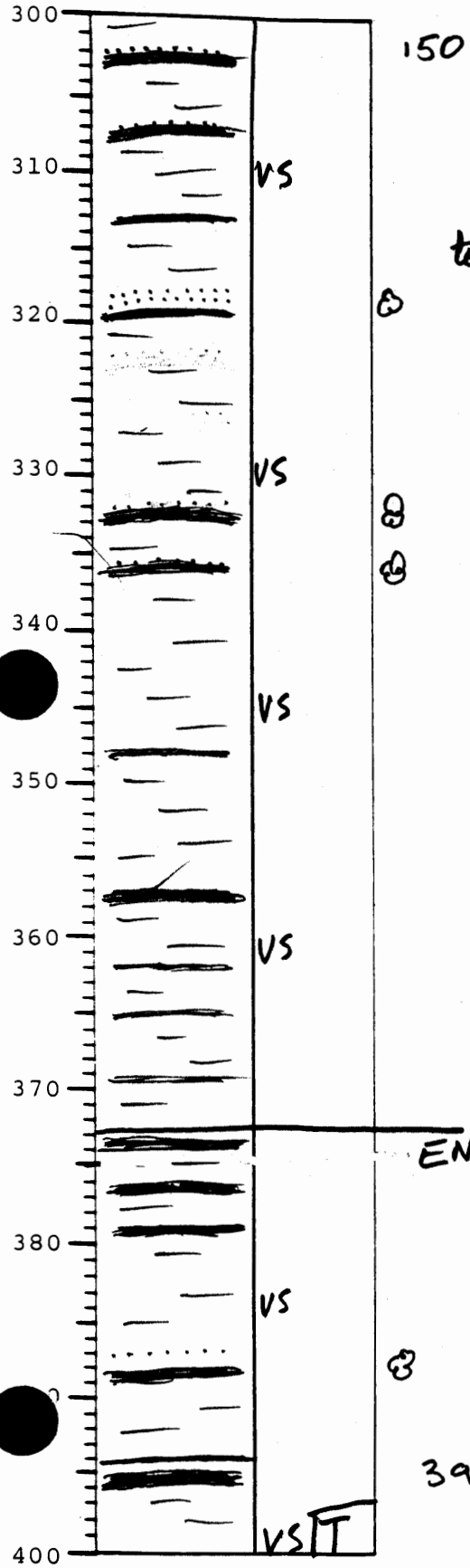
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 32

Lithologic Log



Detailed Description

150 - As above throughout i.e. Dark yellowish brown clay 10YR 4/2
Black organic bands c. 1 cm thick
Foram concentrations - 1 grain thick or so assoc. with top of organic bands.

END OF SECTION

394 Slight Colour change -

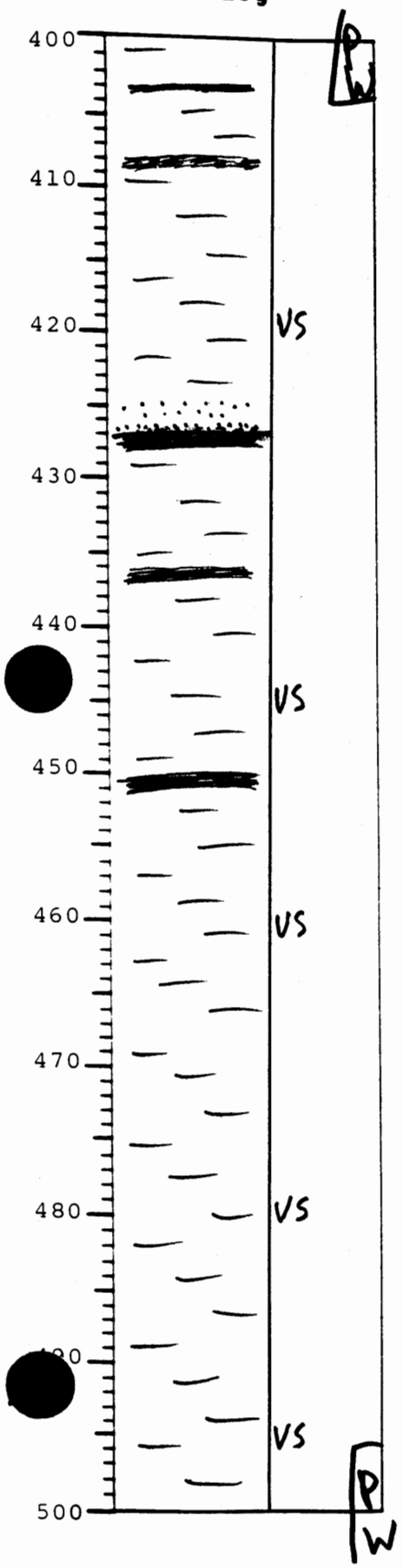
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC32

Lithologic Log



Detailed Description

As above throughout i.e. Dark yellowish brown clay 10YR 4/2 with black organic bands c. 1 cm thick (down to 451) Little bioturbation.

427 Clastic Silt band 0.7 cm thick with thin laminations above.

451-545 Uniform clay, dark yellowish brown 10YR 4/2 without organic bands - silty base.

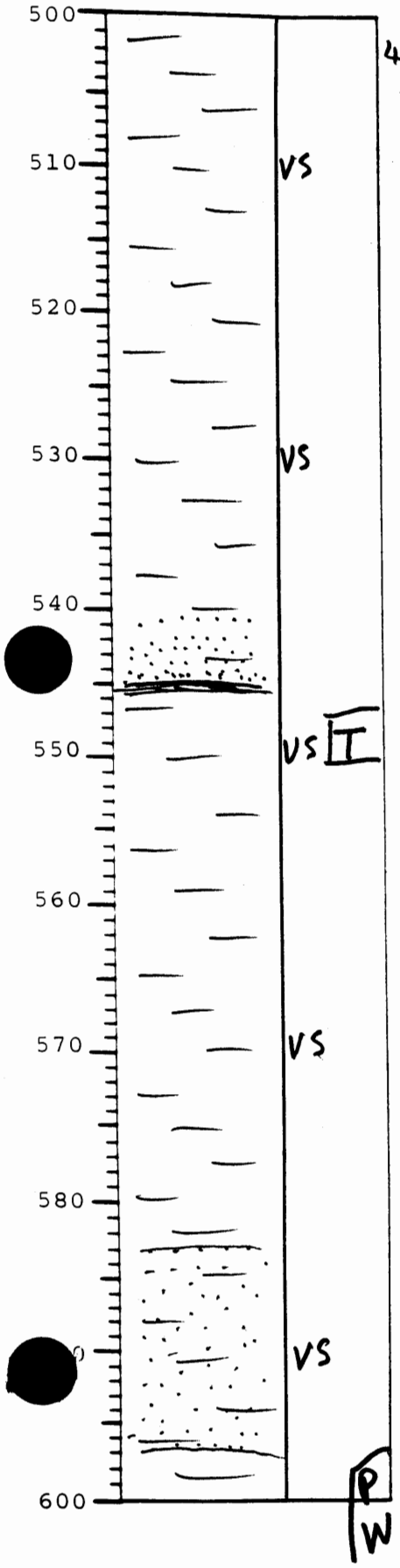
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC32

Lithologic Log



Detailed Description

451-545 Dark yellowish brown clay 10 YR 4/2 throughout silty base. Small amount of bioturbation.

540-545 Dark yellowish brown silty clay 10YR 4/2 Grading upwards.

545-655 Dark yellowish brown clay 10 YR 4/2

583-597 Slightly silty clay - dark yellowish brown Sharp base and top.

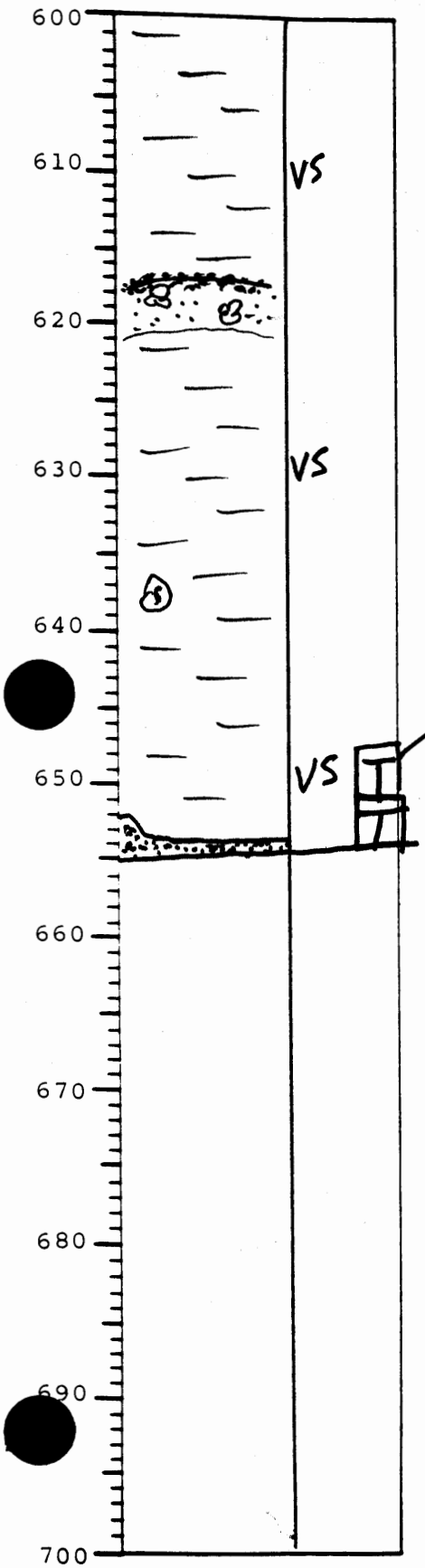
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC32

Lithologic Log



Detailed Description

617 -621 Silty mud with forams & some clastic material
Coarser band at top.

clay just above silt was sampled

653 – 656 medium silt bed
(coarsest bed in core)

BOTTOM OF CORE

VISUAL CORE DESCRIPTION

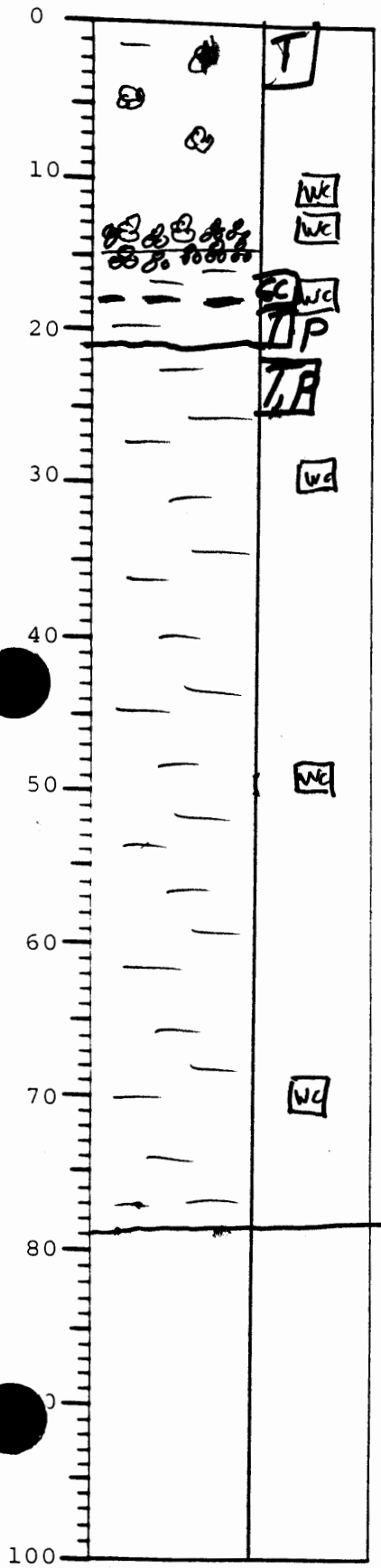
F-4-90

Page 1 of 1

Kenyon

Sta. _____ Core No. TC32

Lithologic Log



BASE OF CORE

Detailed Description

0-15 Moderate yellowish brown muddy foram sand 10YR 5/4

14-16 clean 88 sand

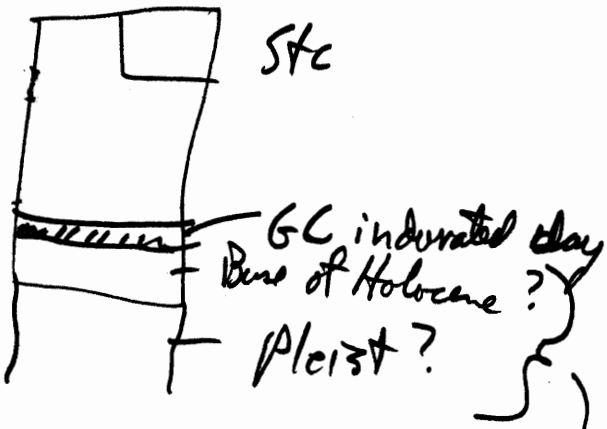
15-18 Moderate yellowish brown sandy mud 10YR 5/4

18 Slightly indurated clay. "Iron band". Moderate brown 0.2cm thick.

23 — Base Homogeneous dark yellowish brown clay 10YR 4/2

23-80 Olive gray mud

Sampled in detail because a good Holo core section



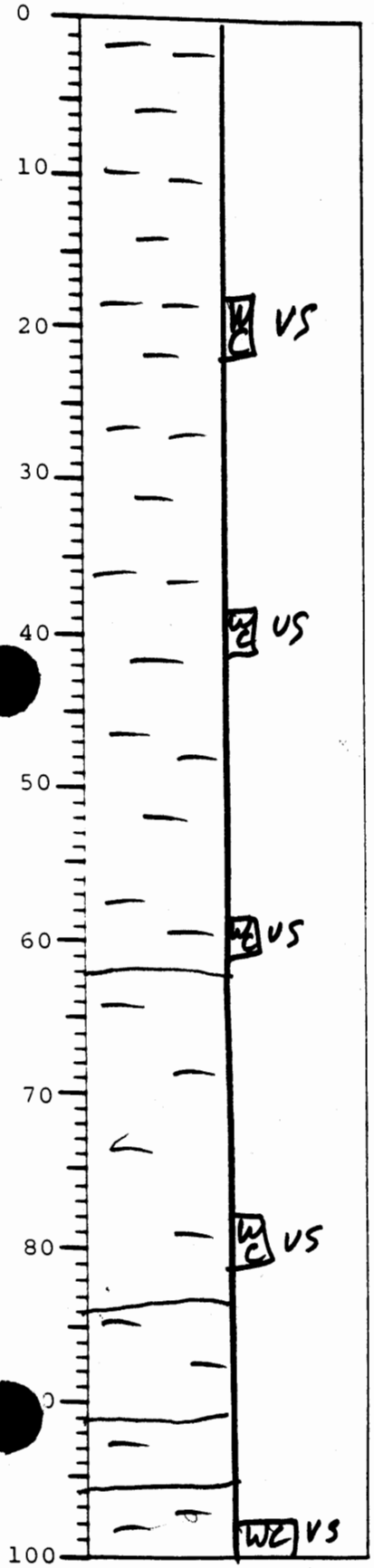
Note that there may be some mixing & possibly difficult to take sample

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC34

Lithologic Log



Detailed Description

17cm foram sandy clay + oxidized layer

Yellowish Top - completely missing in PC

0–60 olive gray clay 5Y 4/1
homogeneous

Complete core is clay except some slightly more silty black bands

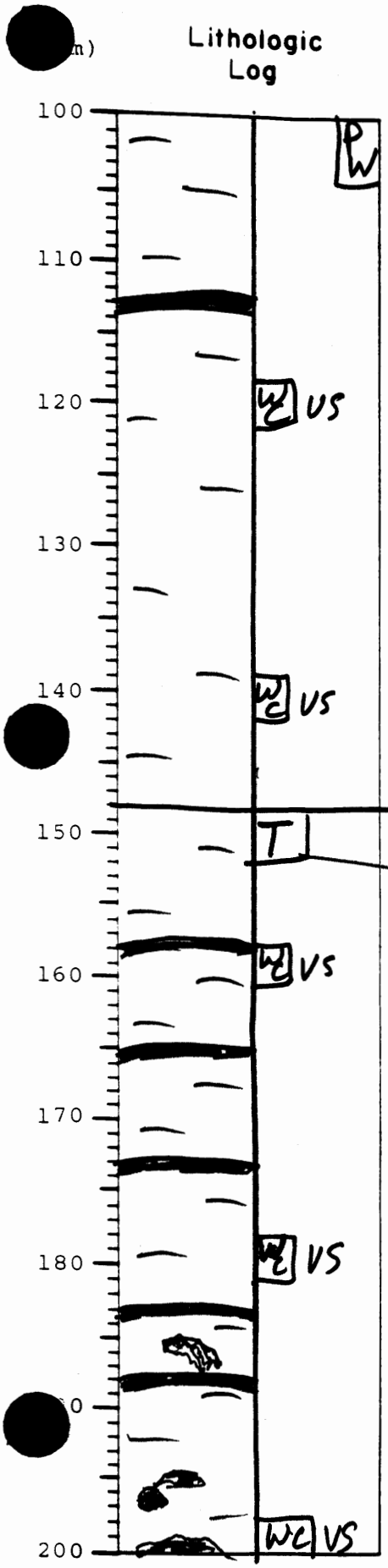
62 first slightly darker lam

62–113 faint darker lamination - but all clay

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC34



Detailed Description

5YR 4/1

113 1st olive black band ~~of~~ change to brownish gray clay

Typically 1 cm thick + 5–10 cm spacing

- Banded lithology extends to 300 cm except 190 - 225 which has black irreg. blebs of 1-3 cm that may be significant bioturbation

- Between bands, small 1-3mm black blebs occur

End of section

check Brownish gray clay w/ black bands

190 - start of black burrows?

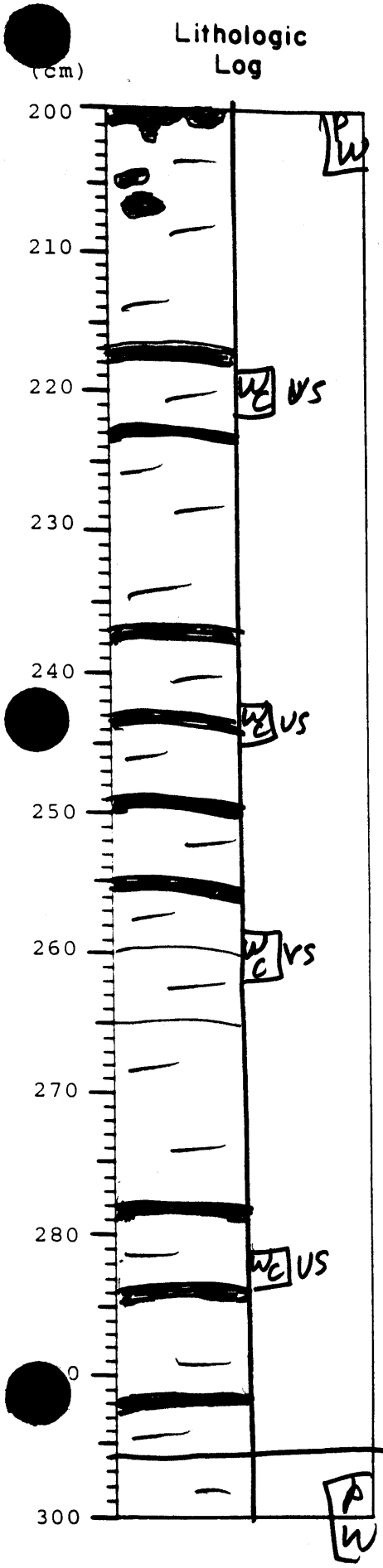
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No PC 34

Lithologic Log

Detailed Description



225- start of rhythmic black bands again

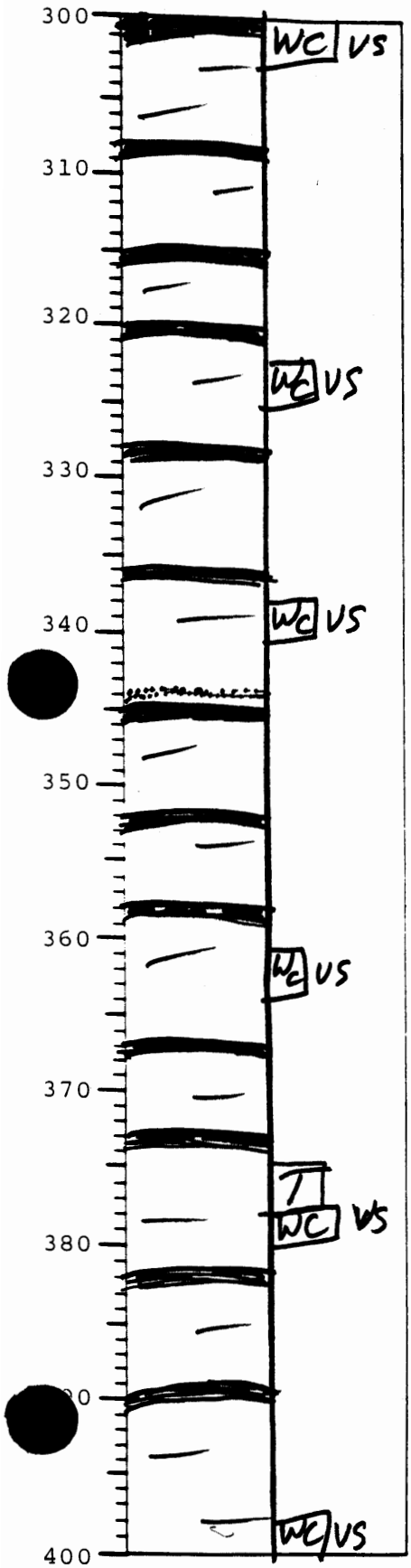
End of section

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 34

Lithologic Log



Detailed Description

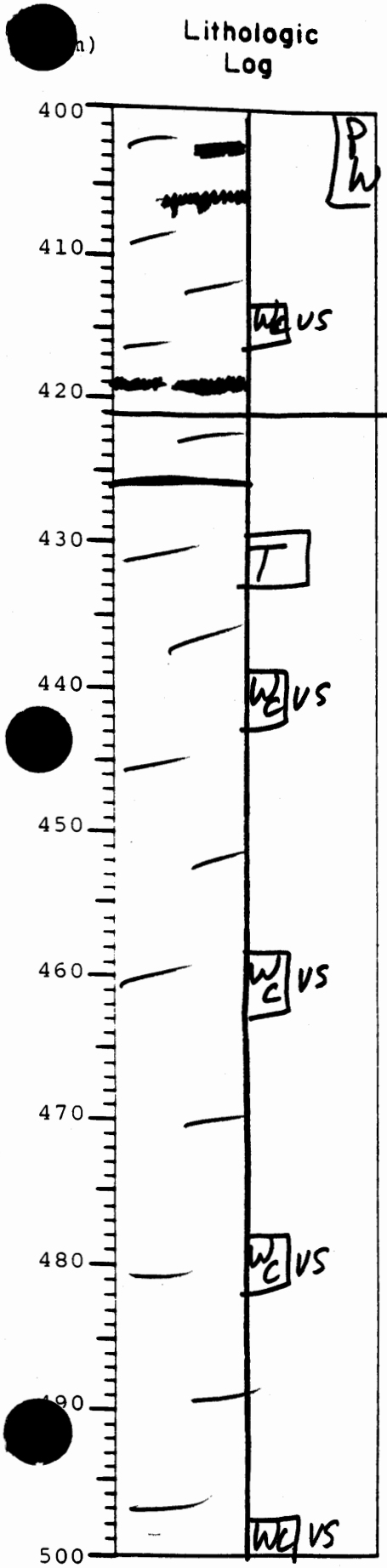
344 – 1-2mm siliciclastic silt layer

373 clay becomes slightly browner

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 34



Detailed Description

402-407 bioturbation appears to have disrupted black bands

End of Section

426-515 homogeneous olive gray clay

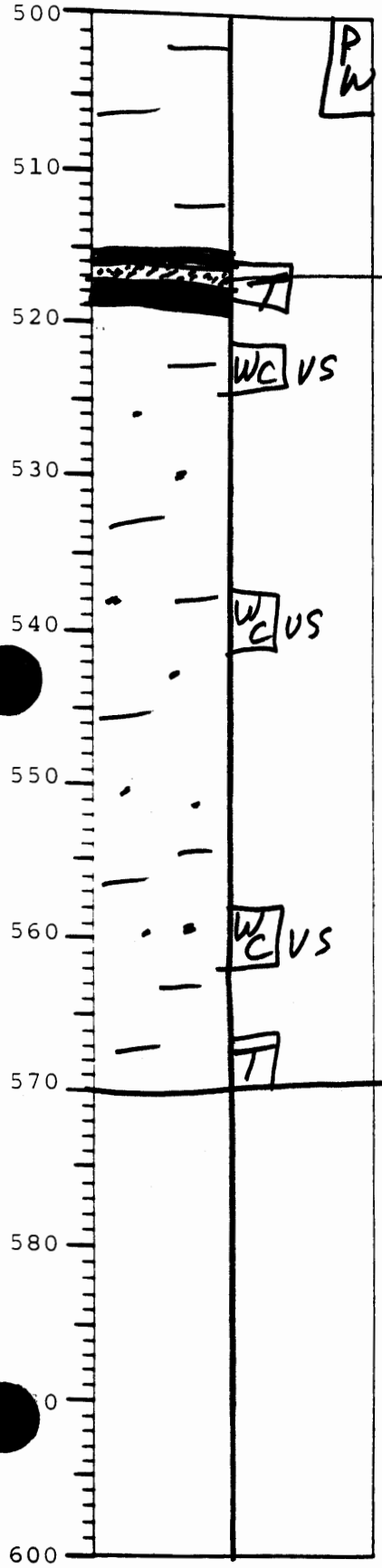
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 34

Lithologic Log

Detailed Description



516-517 Brich silt band of 1cm

519-570- homogeneous olive-gray clay w/ occasional 1-2m black blebs

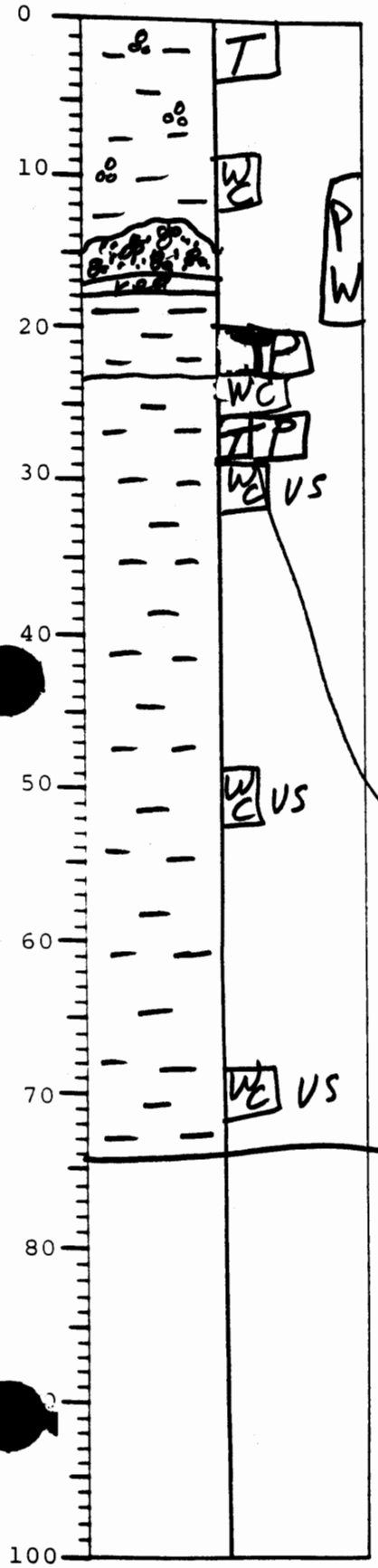
End of Section

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC34

Lithologic Log



Detailed Description

Good undisturbed top section

0 - 23 Moderate yellowish brown (10YR 5/4)

0-14 Foraminiferal sandy clay

14-17 " sand yellowish to whitish

17-17.5 oxidized & indurated layer

17-23 yellowish brown clay

23-25 transitional to Olive gray - homogeneous until end of core

Samples taken from archive half

End of TC

VISUAL CORE DESCRIPTION

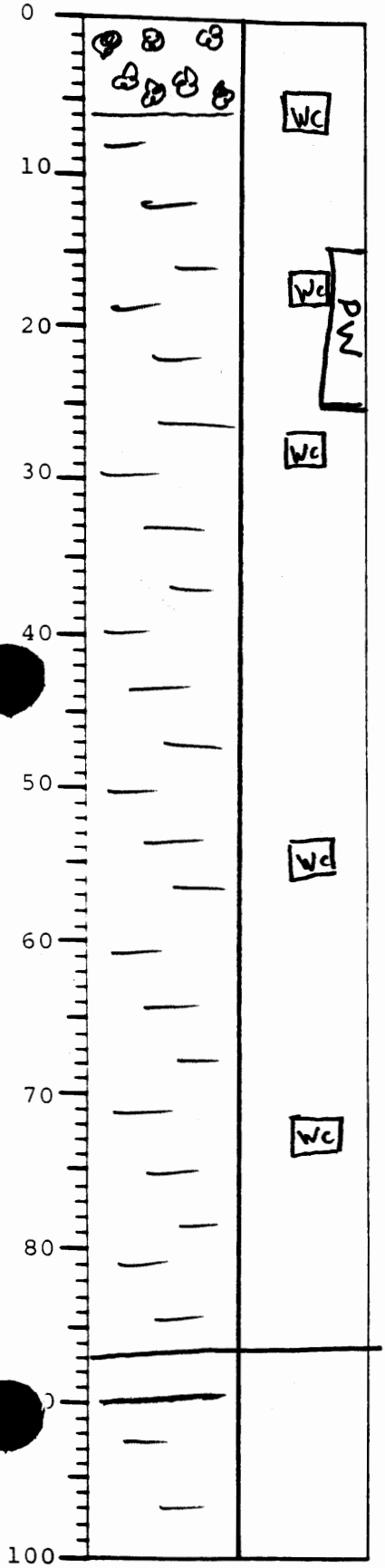
F-4-90

Kenyon

Sta. _____ Core No. PC 36

Total length 526

(cm) Lithologic Log



Detailed Description

0-6 Muddy foram sand. Moderate yellowish brown 10YR 5/4

6-end of section Dark yellowish brown clay 10YR 4/2
Little bioturbation

END OF SECTION

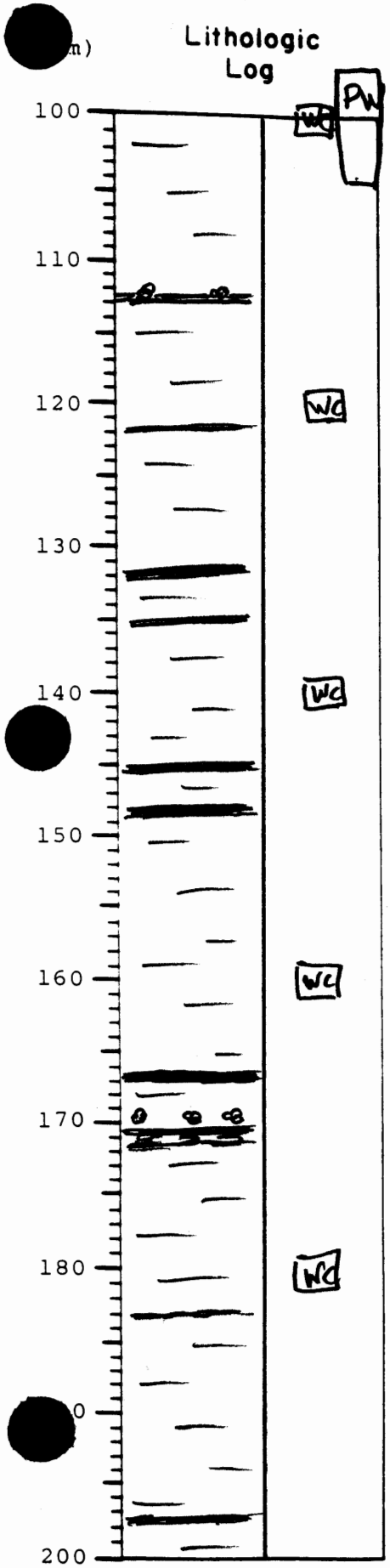
90 Thin organic band - dark gray N 3.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 36



Detailed Description

Clay throughout with dark organic bands, sometimes associated with coarser material 10YR 4/2

113 Organic band, dark gray, with forams 0.3cm.

170 Thin forams band 0.3cm.

171-181 Mottled dark gray organic.

VISUAL CORE DESCRIPTION

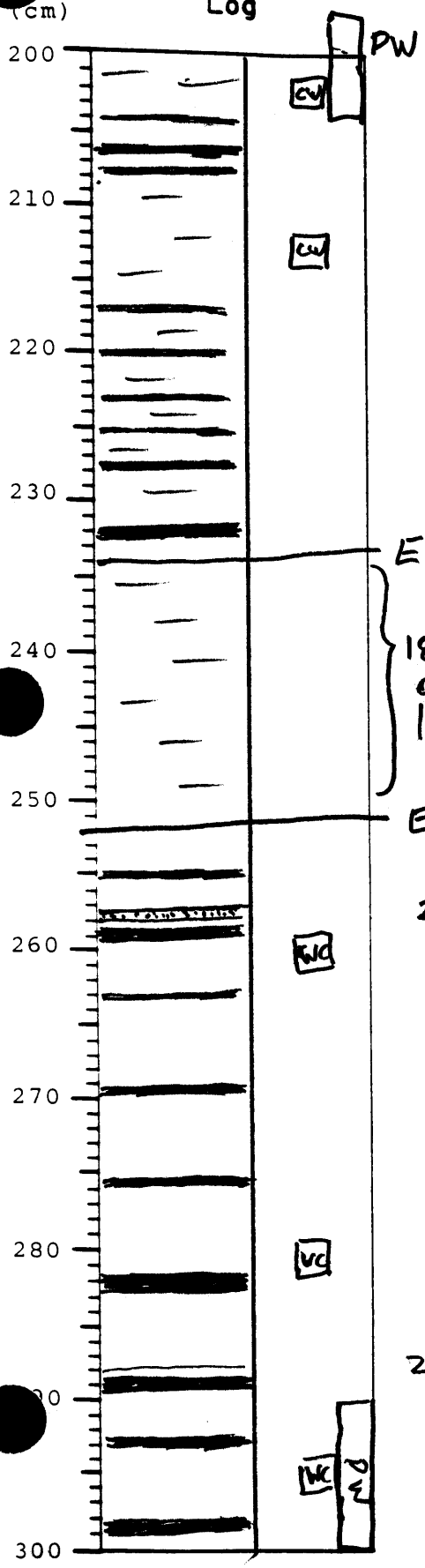
F-4-90

Kenyon

Sta. _____ Core No. PC 36

Lithologic Log

(cm)



Detailed Description

Dark yellowish brown clay 10YR 4/2 throughout

END OF SECTION

18cm of clay not in core liner

Dark yellowish brown 10YR 4/2

END OF SECTION

258 0.5 cm thick silt

288 Slight colour change slightly redder below

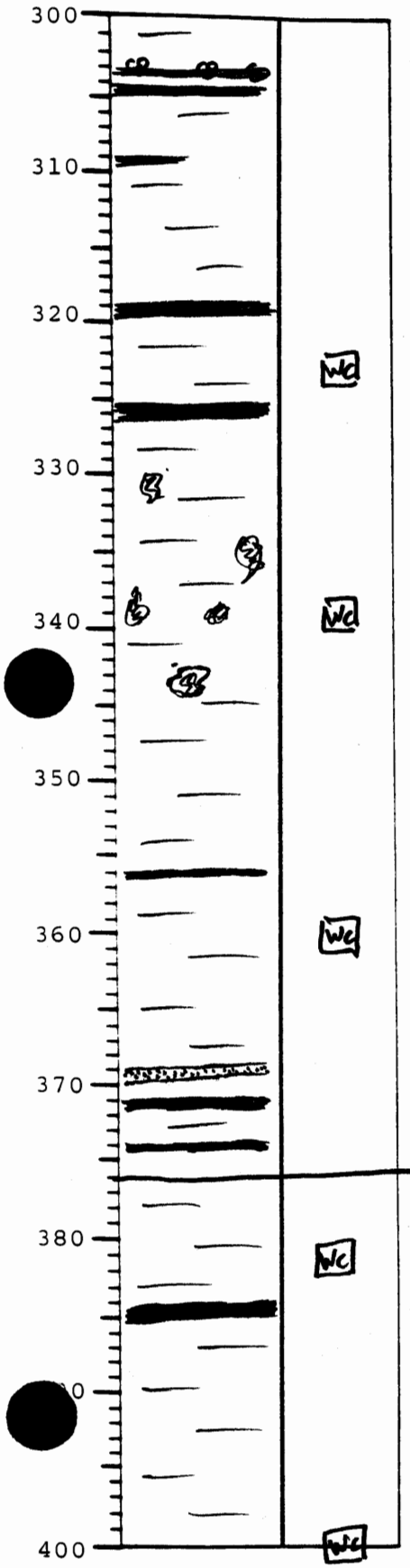
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC36

Lithologic Log



Detailed Description

303 Thin foram layer

Dark yellowish ~~gray~~ brown clay throughout 10YR 4/2

330-345 Patches of black, N2 organic

369 1 cm muddy silt

END OF SECTION

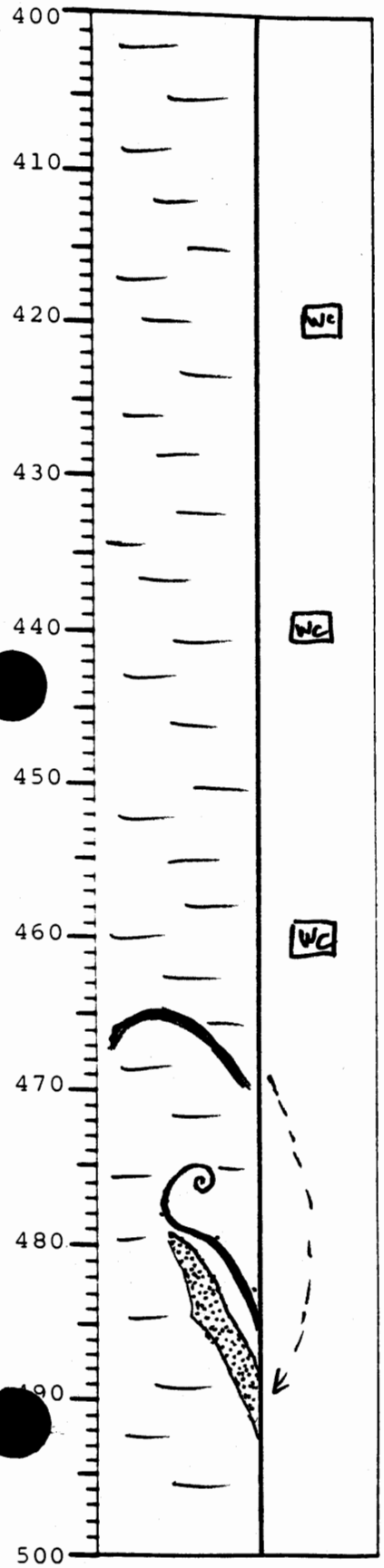
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC36

Lithologic Log



Detailed Description

Uniform dark yellowish brown clay 10YR 4/2 throughout. Scarcity of black organic material

465 Black organic band. Slight colour change below.

465 - 500 Coring disturbance. Silt layer may have been dragged down from about 464

VISUAL CORE DESCRIPTION

F-4-90

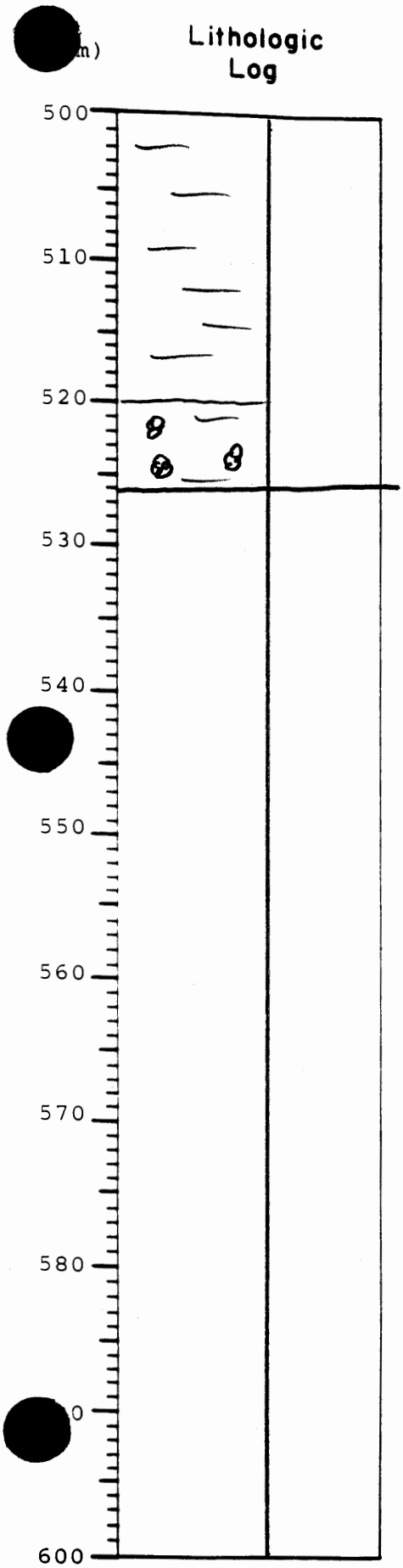
Kenyon

Sta. _____ Core No. PC36

(m)

Lithologic Log

Detailed Description



520-526 Dark yellowish brown clay with scattered foraams and black organic patches

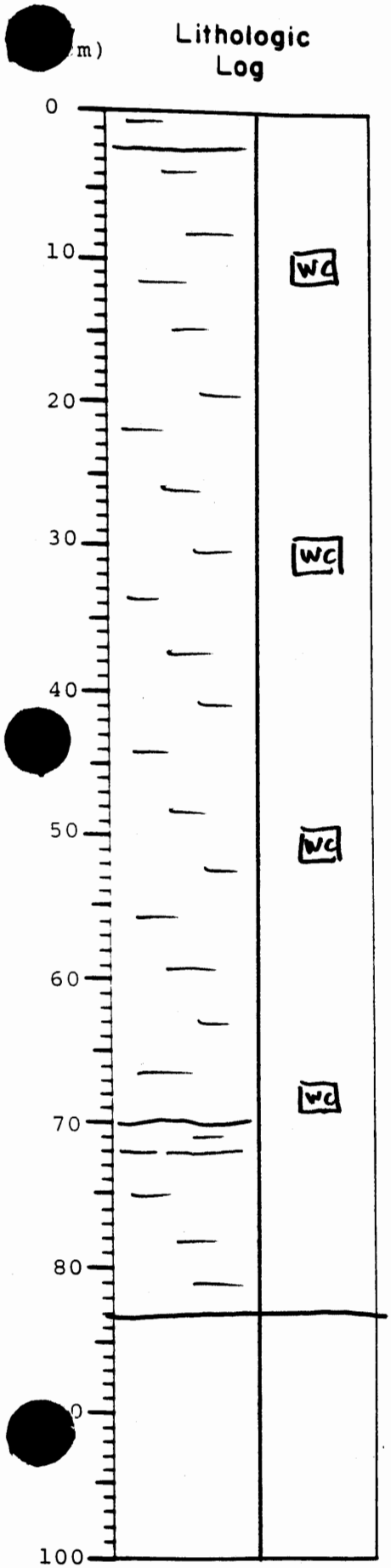
BASE OF CORE

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. TC36



Detailed Description

0-2 Moderate yellowish brown clay 10YR 5/4

2-70 Homogeneous dark yellowish brown clay 10 YR 4/2

Some small organic blebs - sign of limited bioturbation.

Probable repenetration

70-72 Moderate yellowish brown clay 10YR 5/4

72-Base Dark yellowish brown clay 10YR 4/2

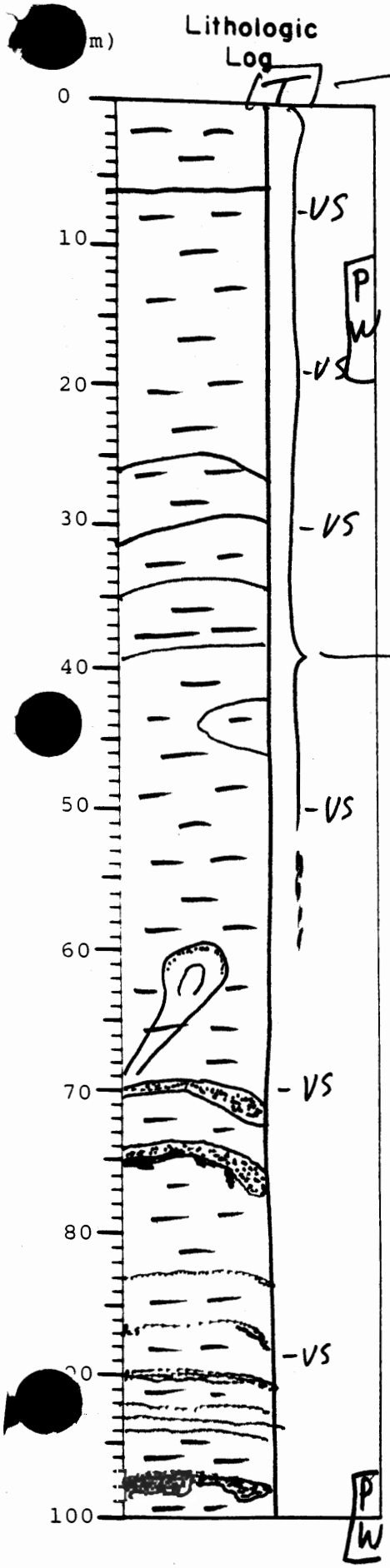
BASE OF CORE

VISUAL CORE DESCRIPTION

F-4-90

Nelson

Sta. _____ Core No. PC 38



Detailed Description

(0-2) surface sample from TC + yellow to gray trans 13 cm

0-6 cm moderate yellowish brown (note only half the thickness of TC)

6 - 110 Olive gray clay -
- homogeneous to 60 cm
- note very different exposure cf to structures of trigger core that has major silty clay intrusions, clasts or bioturbation

* (This may be an artifact of core cutting) entire core sampled at 2 cm intervals for WC + use w/ correlation of high back scatter + sonic velocities

these are very faint in PC

60 - 70 - major burrow

70 - 110 increasing development of silt beds
all pulled to the right side of the core cf to some coring artifact
∴ most layers until thicker one = somewhat irregular

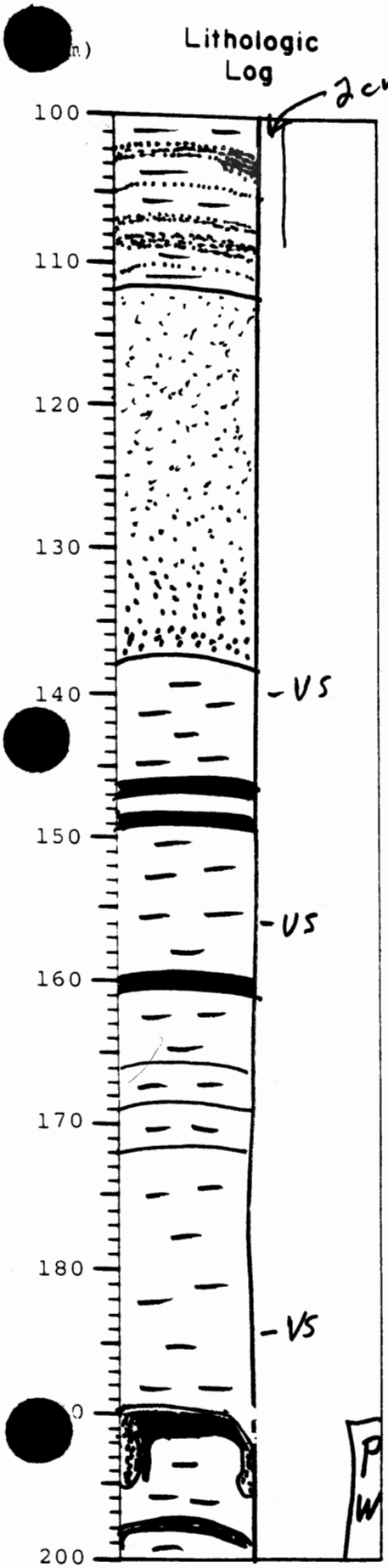
increasing # + thickness of silt beds

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC38

Lithologic Log



Detailed Description

104-110 - silt couplets w/ thin clay between @ 103, 107, 108, 109

112-138 graded sand bed without apparent vertical structures

top = silty very fine sand with a sharp top with overlying clay

- at base - silt fine - medium sand

138 to base of core = banded mud(?) turbs? w/ dark olive black bands in brownish gray clay (5YR 4/1)

faint laminations

90-96 Dark band pulled along liner w/ silt drown along " " silty sand 1½ - 2 cm thick

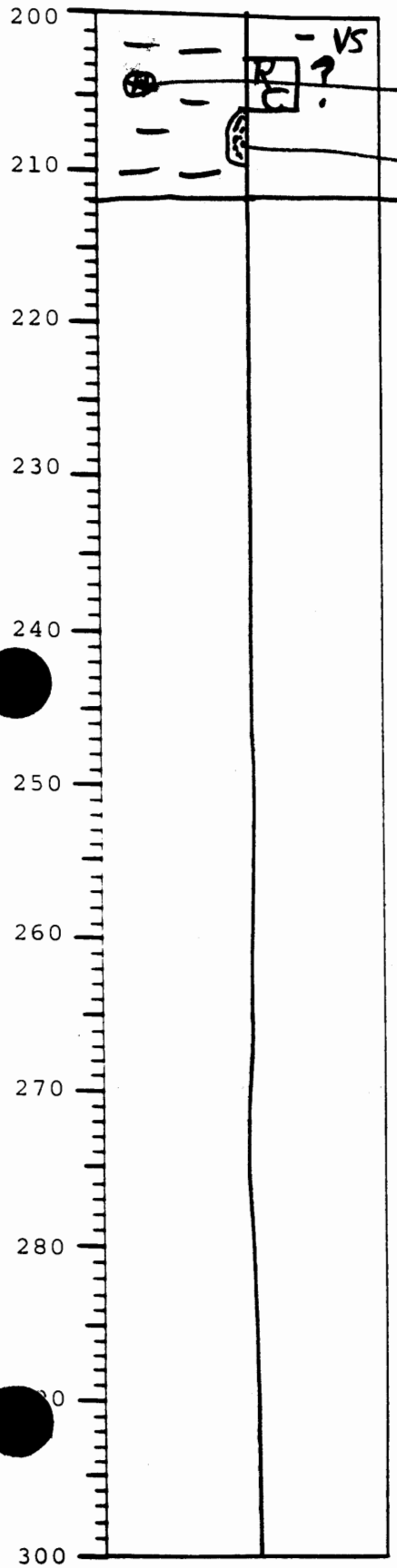
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 38

Lithologic Log

(cm)



Detailed Description

Wood 2.5 x .75 w/ good visible plant cell structures

silt bleb along the liner

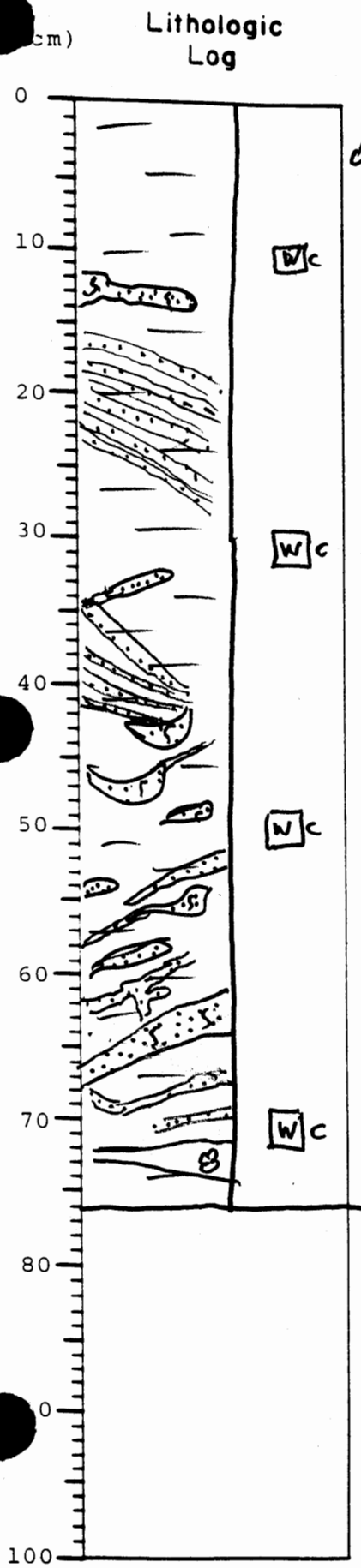
212 = end of core

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. TC 37



Detailed Description

10YR 4/2

0-72 Dark yellowish brown clay with silty bands, some forams. Also silt filled burrows?

Silty bands show high dips in core

"Burrows" may be one constituent of a clay/silty clay debris flow.

10YR 5/4

71-73 Moderate yellowish brown clay with forams.

BASE OF CORE

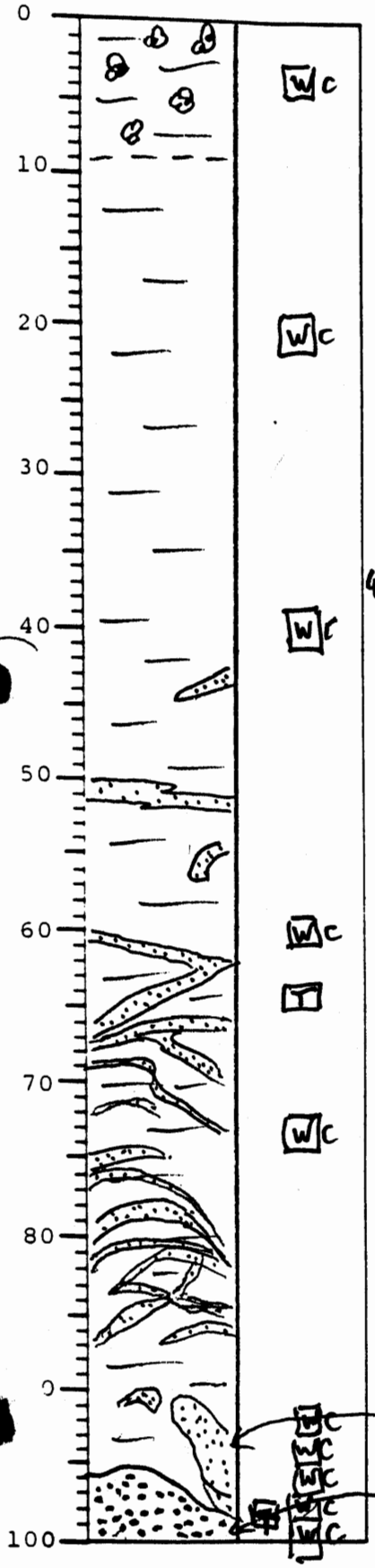
Looks like Holocene material near bottom of TC thus repenetration suspected.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC37



Detailed Description

0-9 Moderate yellowish brown 10YR 5/4 Muddy foram sand

9-96 Dark yellowish brown 10YR 4/2 clay with slightly less brown clayey silt, possibly fine sand also, with irregular distribution in core. The silts are usually continuous across core and are never vertical. Thus this is presumed to be a clay debris flow with a silty matrix.

45-96 Silty component increases downward – note thin silty bands well seen in upper part of trigger core.

96-base of core. Dark yellowish brown fine sand. Irregular upper contact. Coarsening downward.

VISUAL CORE DESCRIPTION

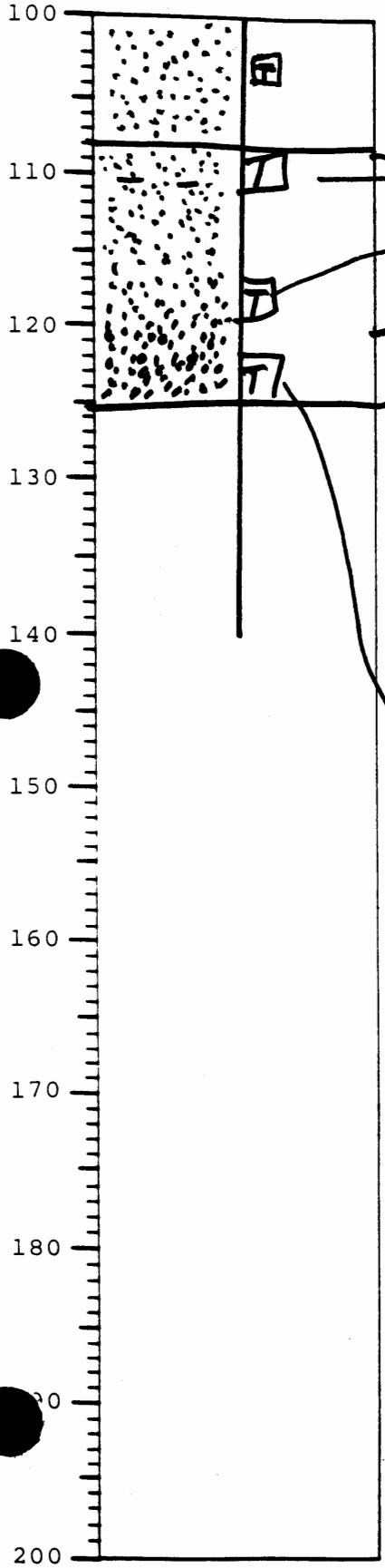
F-4-90

Nelson

Sta. _____ Core No. PC 37

(m)

Lithologic Log



Detailed Description

End of 1 & only section of PC 37

Top of catcher

bottom of catcher

in catcher

apparent 60cm more in cutting head

- lower loose part from last 6 cm is medium clean sand - siliciclastic
- upper part in catcher grades to silty fine to very fine sand from 110 to 120

medium sand of cutting head which had 4 cm of medium sand

- 108 - 125 well graded sand layer from medium sand at the base to silt very fine sand in the upper core catcher

VISUAL CORE DESCRIPTION

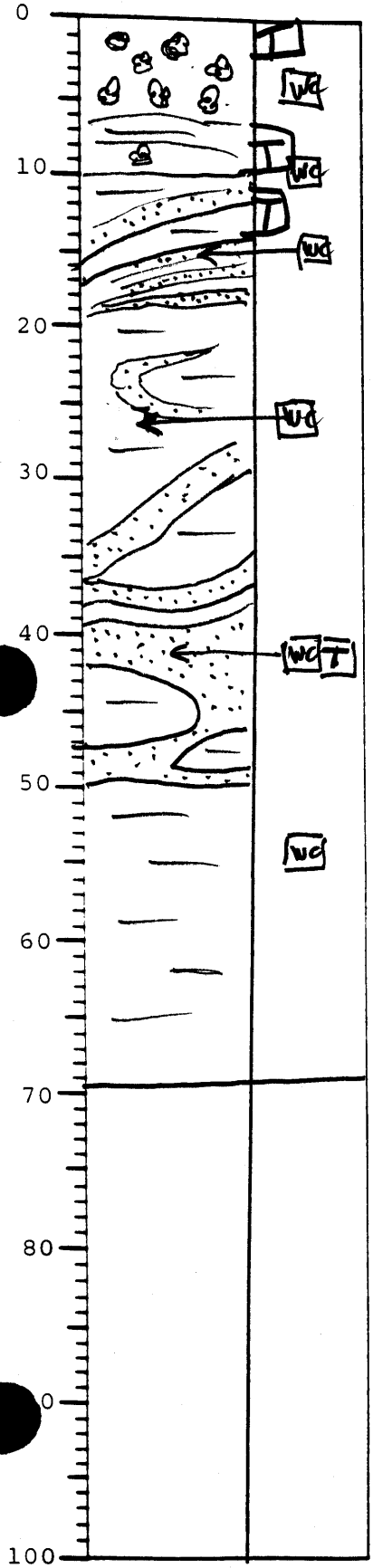
F-4-90

Kenyon

Sta. _____ Core No. IC38

(cm)

Lithologic Log



Detailed Description

0-10 Moderate yellowish brown 10YR5/4 muddy foram sand.

6-10 Increasing amount of mod. yellowish brown clay

10-50 Dark yellowish brown clay 10YR 4/2 within a slightly darker clayey silt "matrix". Some 'clasts' are rounded.

50-70 Possibly some silty bodies within otherwise homogeneous clay.

BASE OF CORE

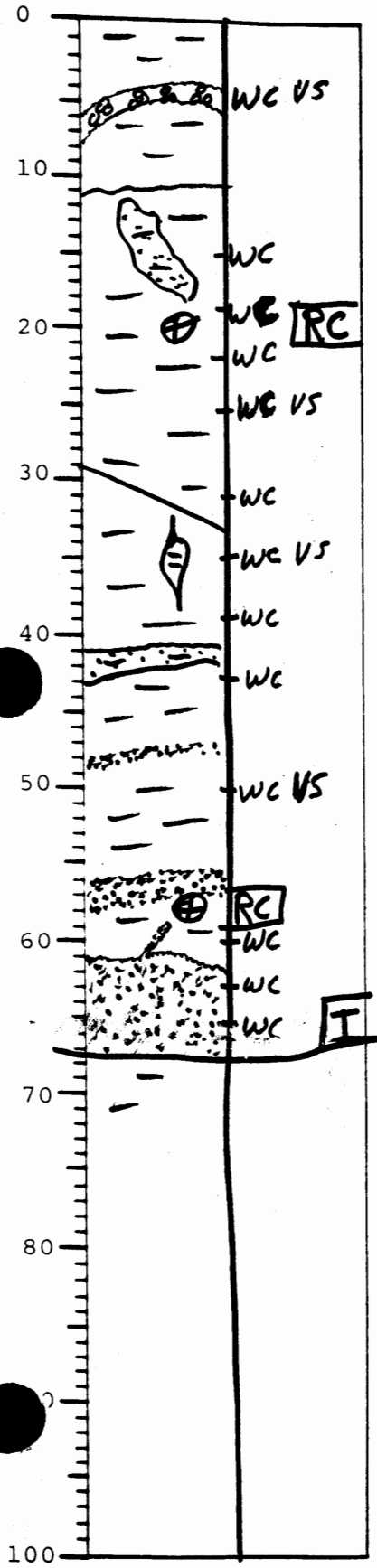
VISUAL CORE DESCRIPTION

F-4-90

Nelson

Sta. 39 Core No. TC39

Lithologic Log



Detailed Description

0-67
NO PC obtained

0-12 Moderate yellowish brown

6-7 sand

11.5-29 Olive gray clay w/ large clayey silty blob at 12-18

20 cm - wood (0.75 x 2.5 cm) piece of wood

29-32-41 brownish gray clay w clay and dust @ 35-37

41-43 - olive gray silty clay layer

56-58 silt bed w/ clay lam.

57.5 - Wood .50 x 1.5

61-67 medium-cse silt layer

End of Core 67 cm

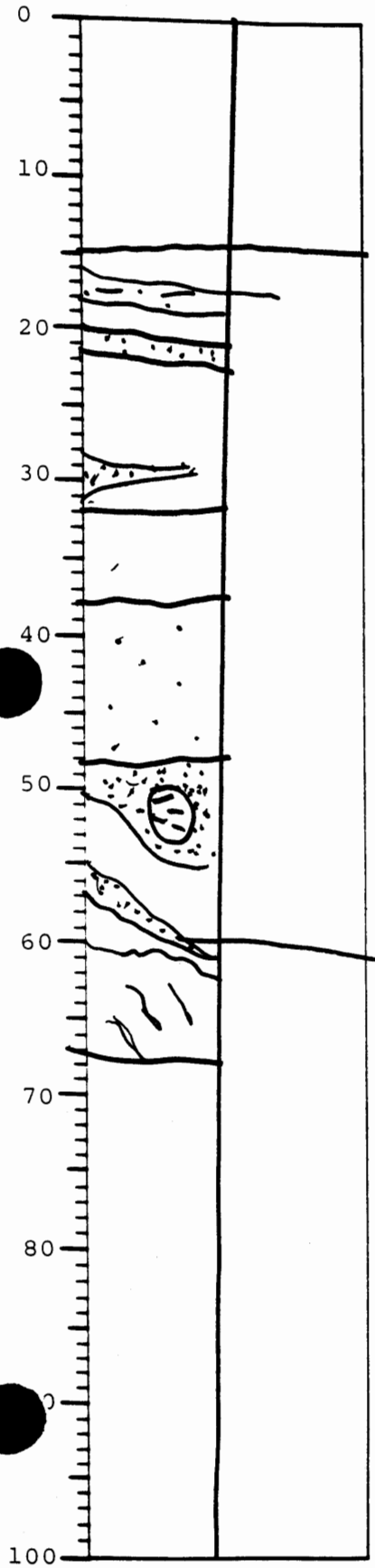
VISUAL CORE DESCRIPTION F-4-90 Page 1 of 1

Nelson

Sta. 40 Core No. TC40

NO PC obtained

(cm) Lithologic Log



Detailed Description

Top 15 cm
pushed out through top of TC & bagged

16-18 - irregular silty clay

20-21 clayey silt

32-38 Moderate yellowish brown oxidized clay
core bounced & double sampled
the sediment water interface

38-48 silty clay
49-54 clayey silt w/ large mud clast
2x4 cm

55-60
irregular distorted silt layer
60-67 → silt stringers in clay
End of Core

No Samples - not sure of
reliability of the core

VISUAL CORE DESCRIPTION

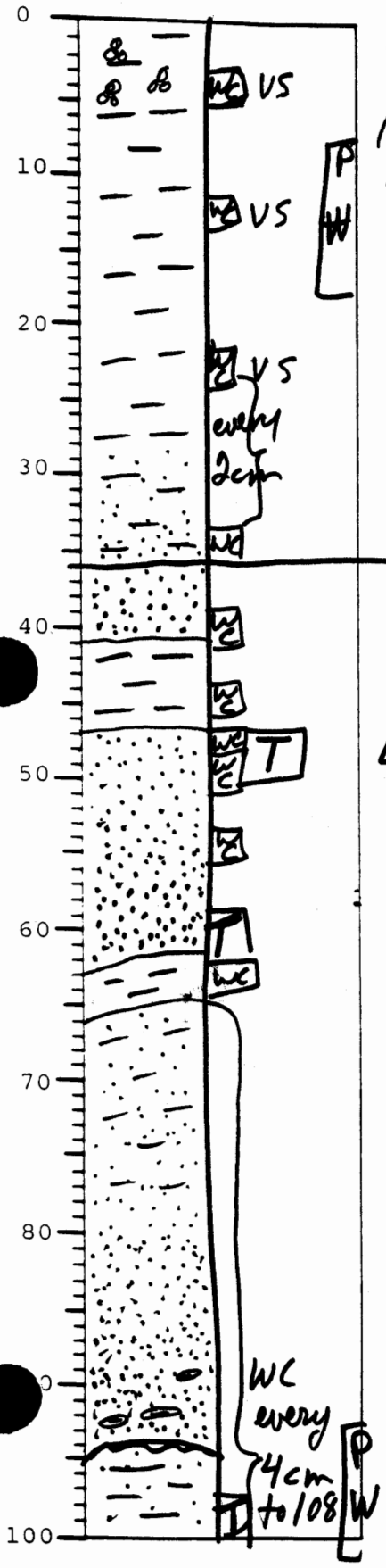
F-4-90

Nelson

Sta. _____ Core No. PC41

303 cm

(cm) Lithologic Log



Detailed Description

0-5 moderate yellowish brown & rich clay

5-8 Dark yellowish brown clay grading to olive gray clay @ 9cm

30-40 clayey silt grading to clay

End of top section

48-65 graded silt w/ fine sand layer -
53-48 becomes clayey silt
No structures apparent at this time

66-94
at top = silty clay

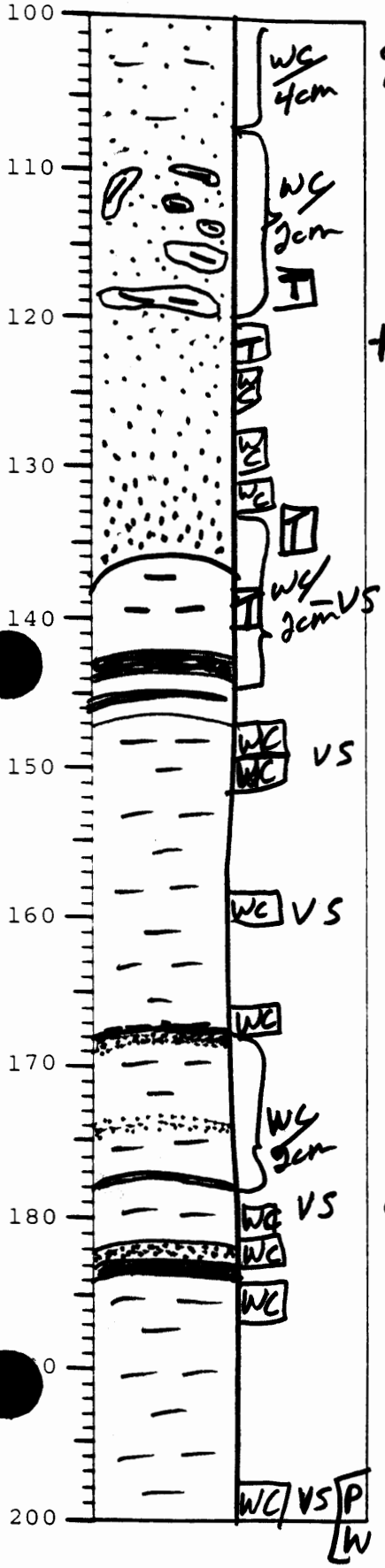
87-94 silty vf sand or sandy silt at the base w/ flattened clay clasts of .25-2cm irregular base that cuts into top of another turbidite

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 41

Lithologic Log



Detailed Description

94-137 Apparent extensive sand layer above 110cm becomes clayey silt to silty clay

110-120 - apparent large mud clasts see if this is a graded sand from 120-137

120 grades upward into vf silty sand

fine sand at base

sharp base w/ banded clay below

Banded Brownish gray clay with carbonaceous layers exists to end of core

168-185 silt beds present

168 - carbonaceous band over clayey silt layer of ½ cm

175 - 1cm thick silt layer

Carbonaceous layer

182-183 silt layer w/ 1cm carbonaceous layer below

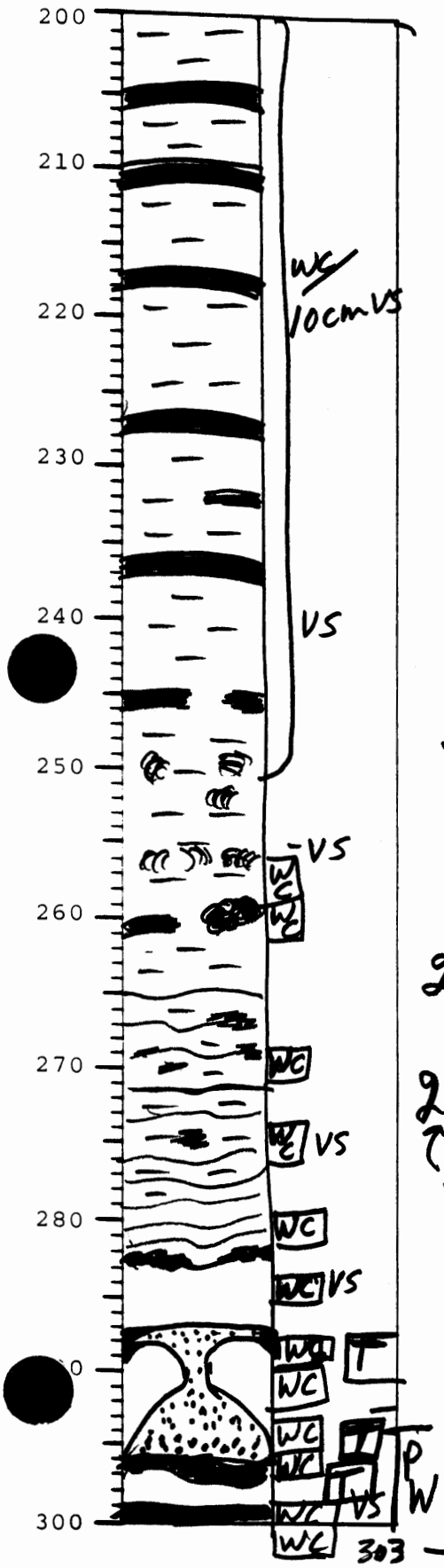
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 41

Lithologic Log

Detailed Description



245-260 Apparent bioturbated carbonaceous layers

260-283

268-296
↑ In creasing coring disturbance ending w/ well graded silt bed

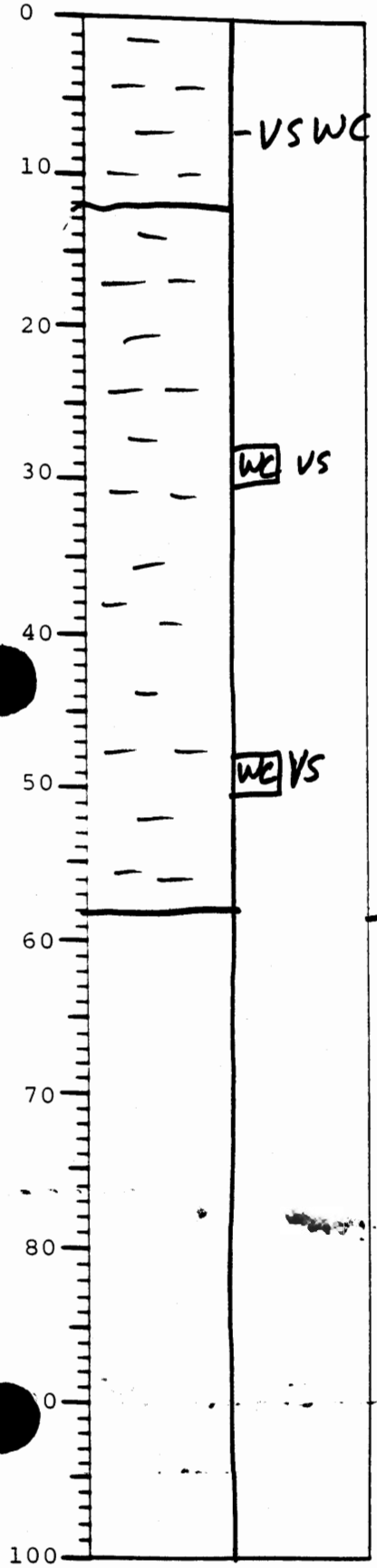
305 end of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC41

(cm) Lithologic Log



Detailed Description

0-12 yellow clay

12-55 gray homogeneous clay

55-58 yellow clay

End of core

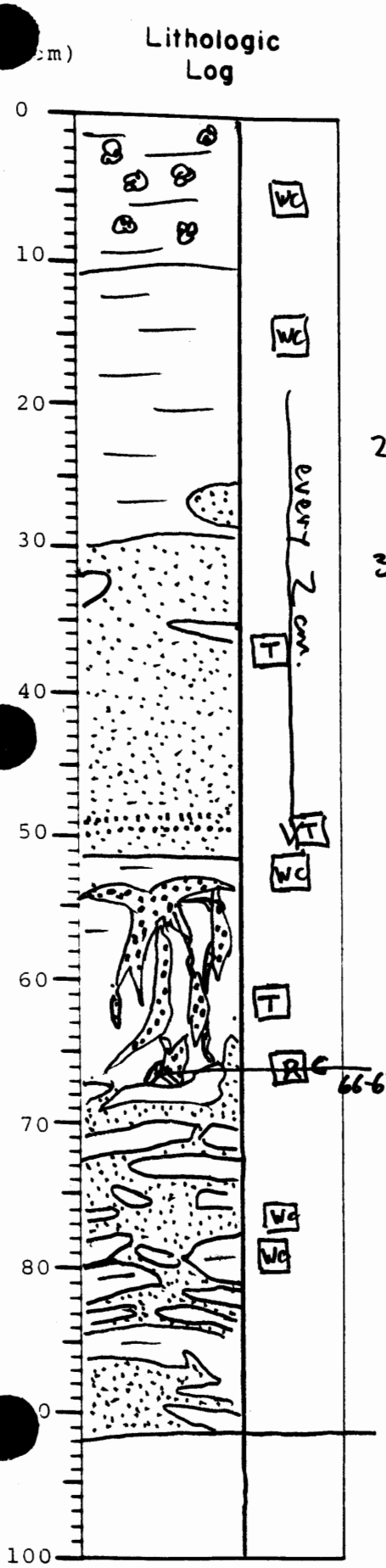
Note small amount of yellow sediment at base indicating a double coring ∴ no samples

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 42



66-67 1½ cm rounded flat black N1 wood? pebble - taken for RC dating + one other at 64 cm in working half.

Base of core

Detailed Description

0-10 Moderate yellowish brown 10YR 5/4 muddy foram sand.

10-11 Moderate yellowish brown clay 10YR 5/4

11-29 Uniform dark yellowish brown clay 10YR 4/2

29-36 Dark yellowish brown clay in dark yellowish brown silt to fine sand 10YR 4/2

36-51 Dark yellowish brown silt to fine sand. Coarser layers near base

51-66 Dark yellowish brown clay surrounding lenses of muddy coarse sand size material consisting mainly of black fragments, possibly wood. Lenses are vertical and horizontal above - resembling flame structure.

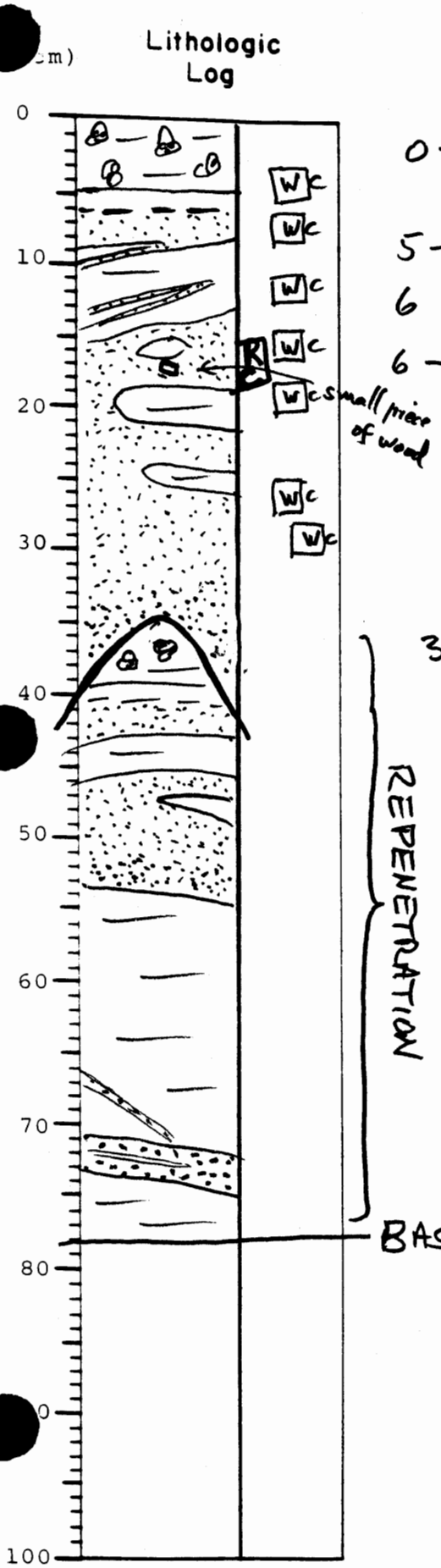
66-Base Dark yellowish brown clay lumps, ragged edged in matrix of muddy silty sand, clastic plus black frags.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. TC42



Detailed Description

0-5 Moderate yellowish brown 10YR 5/4 muddy foram sand

5-6 Moderate yellowish brown clay 10YR 5/4

6 Indurated Fe band - moderate brown 5YR 4/4

6 - 26 Dark yellowish brown 10YR 4/2 clay lumps within a matrix of muddy silt with forams, also dark yellowish brown.

36 - Base

As above

Coarser material is a mixture of clastic grags. up to fine sand size and forams and black particles that tend to be larger & ∴ lighter. (They may be pieces of wood)

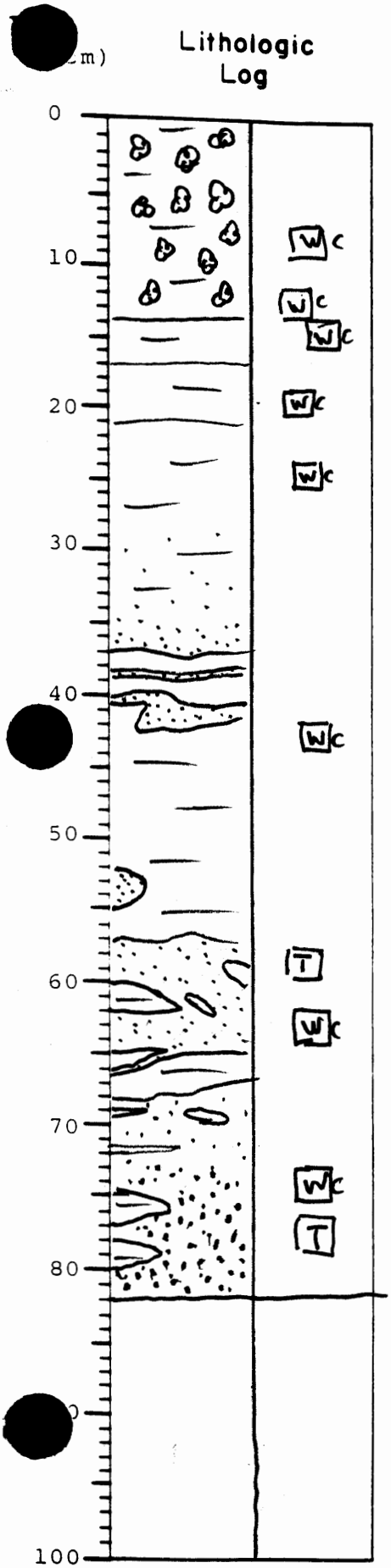
BASE OF CORE

VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. TC43



Detailed Description

0-14 Greyish orange 10YR 7/4 muddy foram sand

12-14 Cleaner foram sand

14-16 Light brown clay 5YR 5/6 with forams.

17-21 Moderate yellowish brown 10YR 5/4 clay.

21- Base of core

Mixture of dark yellowish brown clay 10YR 4/2 and dark yellowish brown coarser material, probably forming matrix. Coarser material is muddy silt at top grading down to muddy, silty, very fine sand at base.

Boundaries of clay/matrix often indistinct.

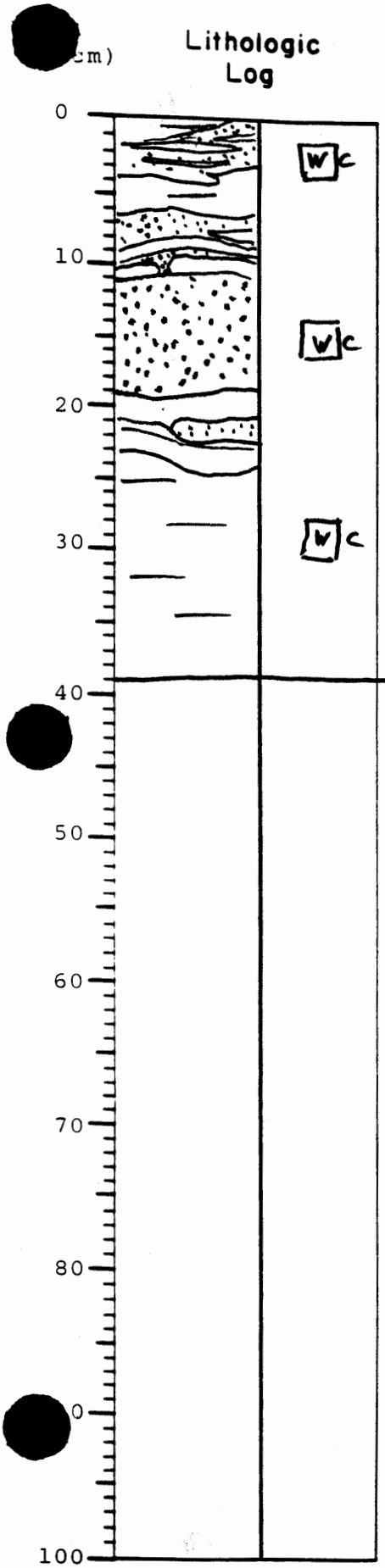
BASE OF CORE

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC43



Detailed Description

Top of core

0-11 Mixture of dark yellowish brown 10YR 4/2 clay and 10YR 4/2 clayey, silty, sand (very fine sand predominates

11-19 Slightly muddy fine sand - 10YR 4/2

19-23 Multicoloured clay bands surrounding a silt. Dominant colours - olive gray 5Y 4/1 and light olive gray 5Y 5/2

BASE OF CORE

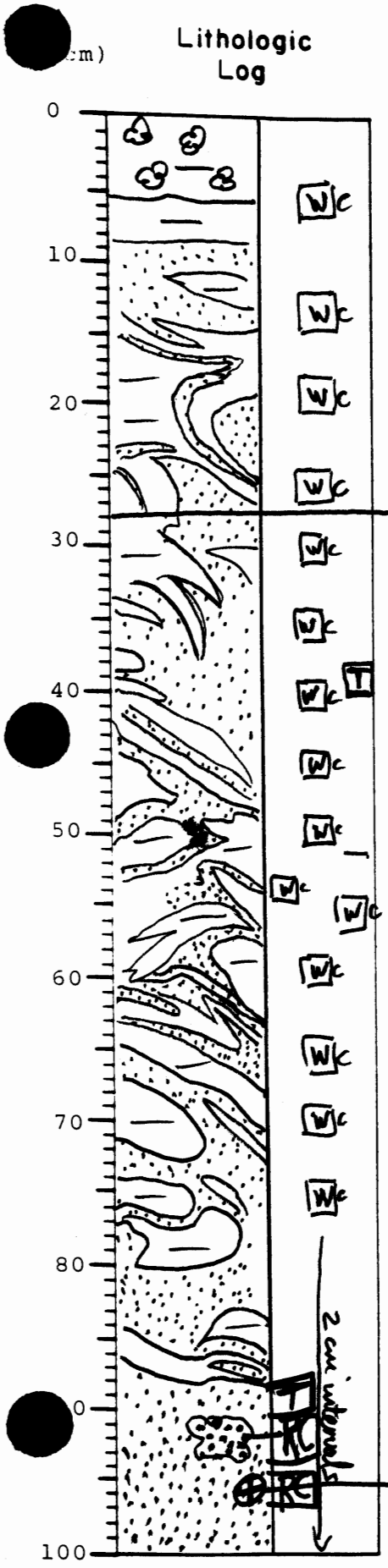
23-Base Homogeneous olive gray clay 5Y 4/1.

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. GC 44



Detailed Description

0-5 Moderate yellowish brown 10YR 5/4 foram sand. slightly muddy.

5-8 Dark yellowish brown clay with forams 10YR 4/2

8-12 A mixture of dark yellowish brown clay and dark yellowish brown silt to fine sand.

END OF SECTION

37-38 Solitary mud clast of contrasting colour Light olive gray 5Y 5/2

85-102 possible single graded silt bed in sequence

91-93 Patch of coarse sand size black clasts — 'carbonaceous'?

.5X.5 cm wood frag.

VISUAL CORE DESCRIPTION

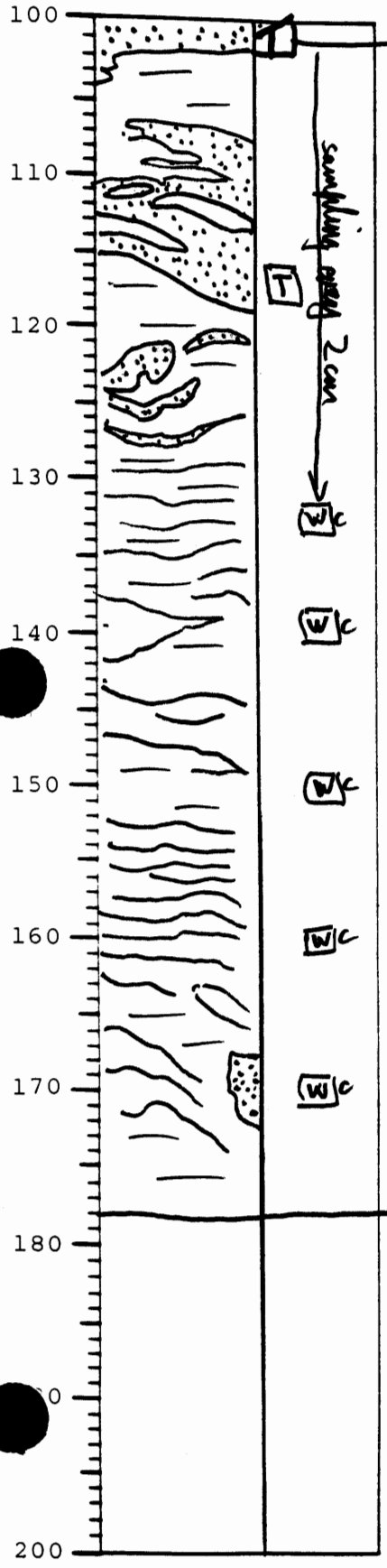
F-4-90

Kenyon

Sta. _____ Core No. GC 44

Lithologic Log

Detailed Description



Check to see if this is a graded bed w/in the chaotic sequence

126 - Base Dark yellowish brown clay (10YR 4/2) separated by dark gray/black bands. Both coloured materials pinch out laterally giving marbled effect. No silt size material except for 168-172 cm.

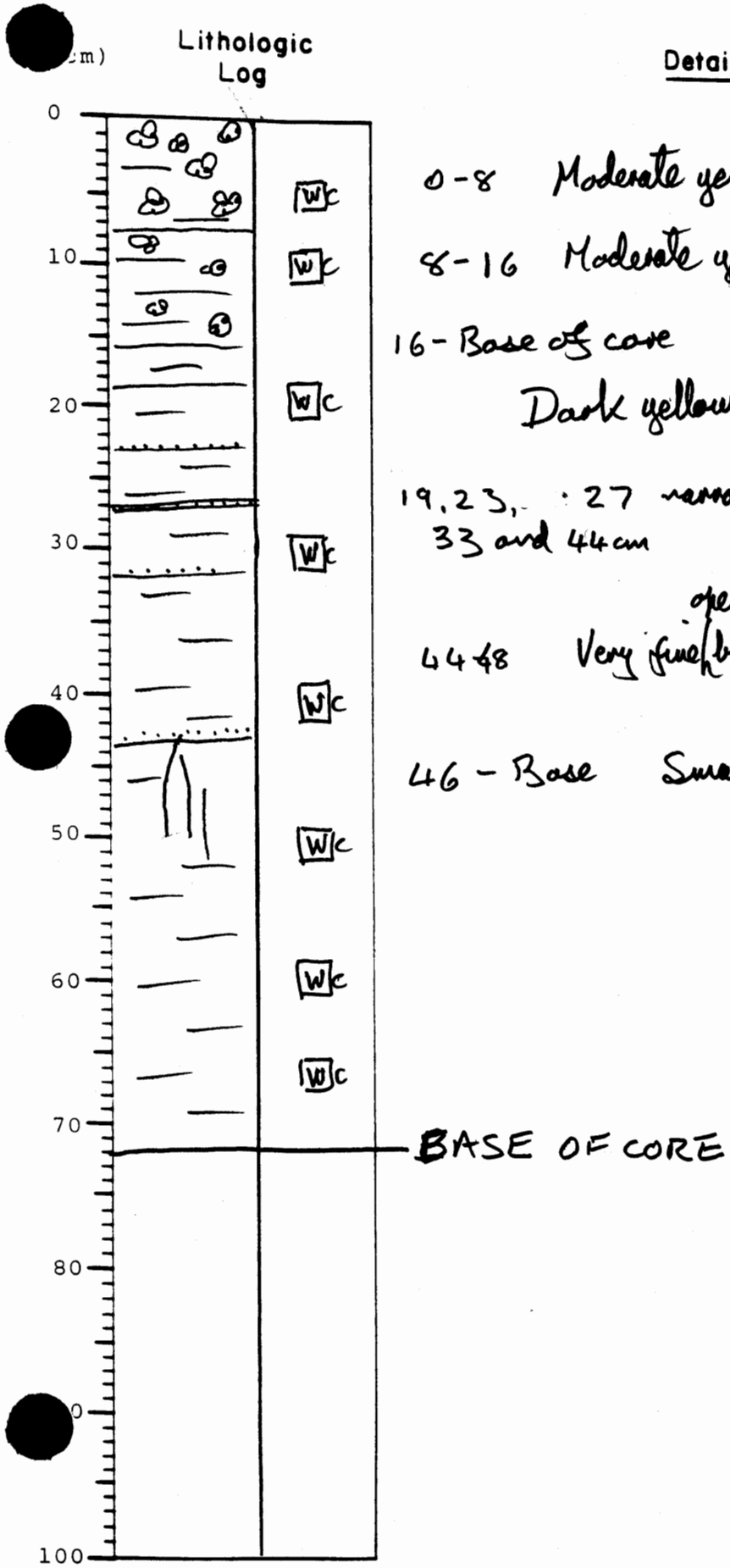
BASE OF CORE

VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. TC 46



Detailed Description

0-8 Moderate yellowish brown muddy foram sand. 10YR 5/4

8-16 Moderate yellowish brown clay and muddy foram sand

16-Base of core

Dark yellowish brown clay 10YR 4/2

19, 23, 27 narrow (0.3 cm) darker bands. Silt at 23cm. 27cm and 44cm
33 and 44cm

44-48 Very fine open burrows seen in unscraped surfaces < 0.1 cm wide.

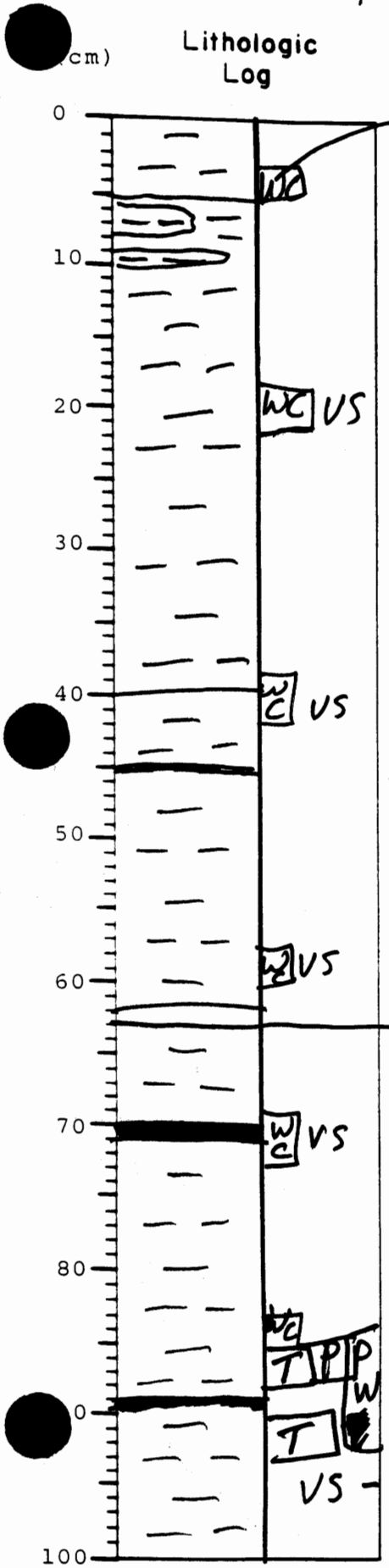
46-Base Small black blebs.

VISUAL CORE DESCRIPTION

F-4-90

Nelson

Sta. _____ Core No. PC 47



Detailed Description

better yellowish - gray contact sampled in TC

0-5 moderate yellowish brown somewhat sharp boundary w/ olive gray clay but major burrows from 5-8 cm

5-63 Brownish gray clay (5YR 4/1)

Subtle color bands are found w/ the sharpest @ 40 cm grayer above + browner below

45 cm 1st dark band of .5 cm thickness

End of section

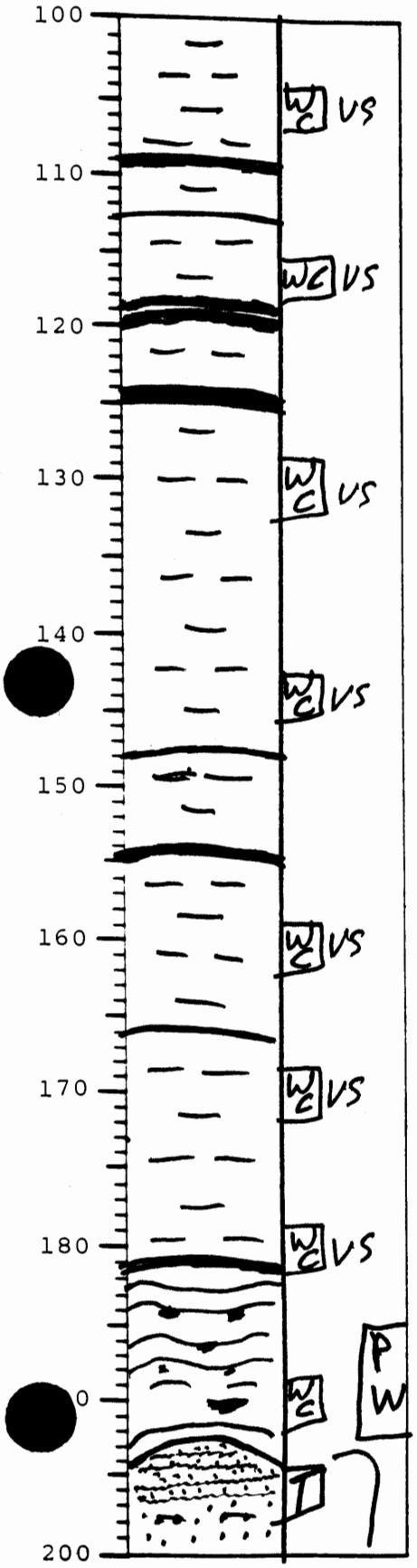
63-89 gray brownish clay w/ sharp color change @ 90 to more olive gray clay w/ more sharply defined carbonaceous blobs and bands

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC47

Lithologic Log



Detailed Description

Organic-banded clay

180-195 brownish gray clayshel
fine carbonaceous laminae black blebs
& numerous 1mm - 1cm dia olive black blebs
sharp upper contact - not gradational

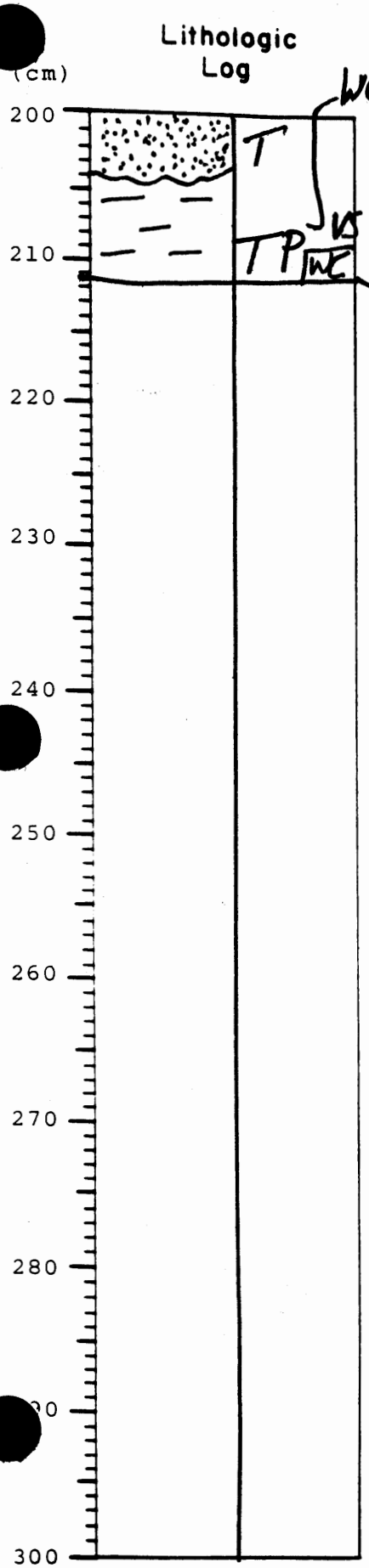
195-205 graded sand-silt layer

195-200 flat laminations

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC47



Detailed Description

200-205 dense 4-5 φ sand

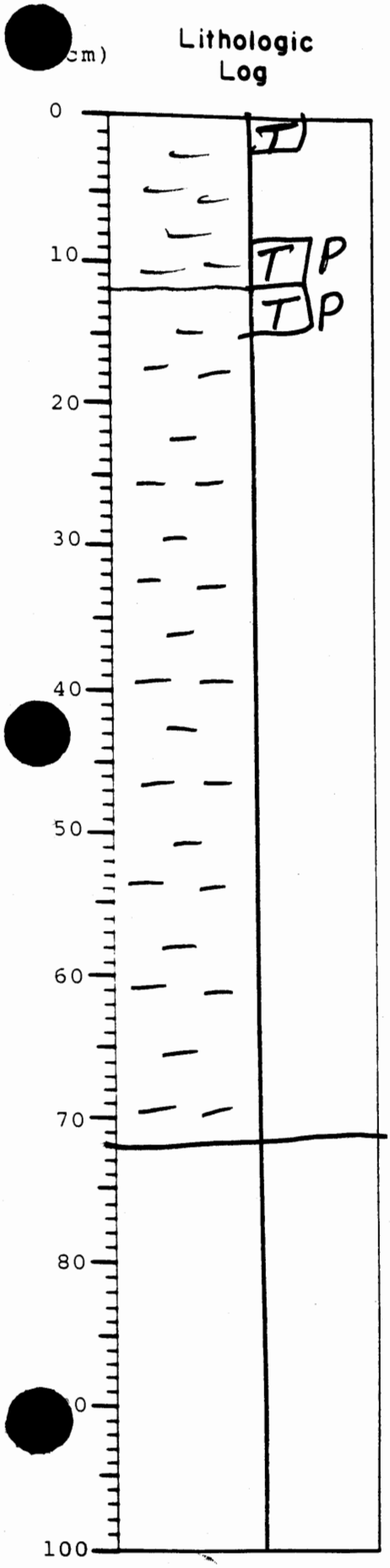
204 base of turbidite has erosional scalloped base & overconsolidated clay

end of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC47



Detailed Description

0-5- 80 sand very muddy

5-10 → moderate yellowish brown

10-12 → more consolidated

12-72 - olive gray homogeneous clay

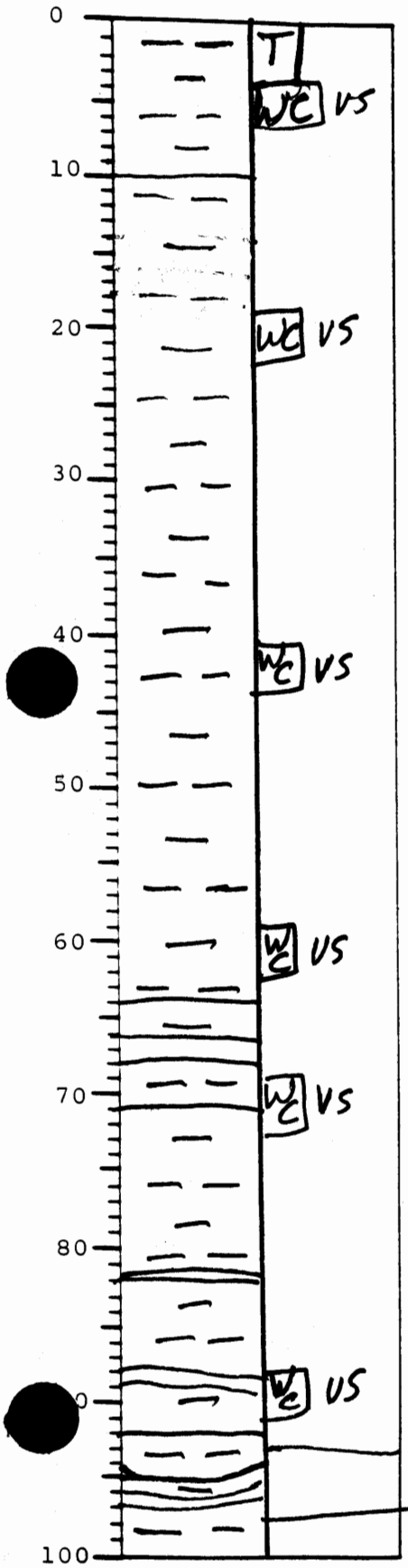
end of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. GC48

Lithologic Log



Detailed Description

0-4 cm rich

0-9 Dark yellowish clay

9-64 Olive homogeneous clay

64-68 - brownish gray

92-95 " "

with darker .5 cm bands

Grayish Brown

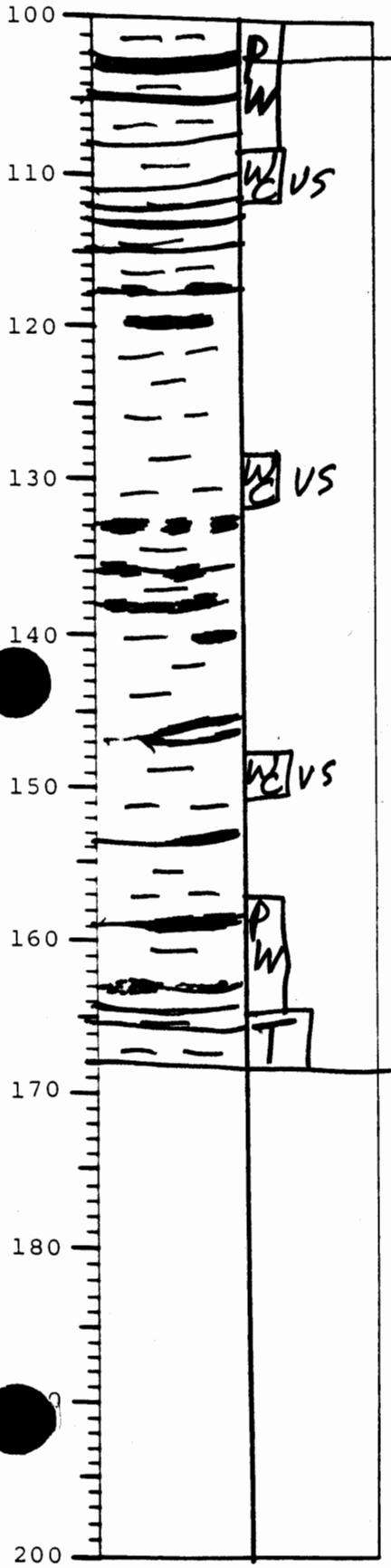
Olive gray clay

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. GC 48

Lithologic Log



Detailed Description

Carbonaceous± indurated clay + well-developed " bands to the end of core

120 - 132 - More brownish layer

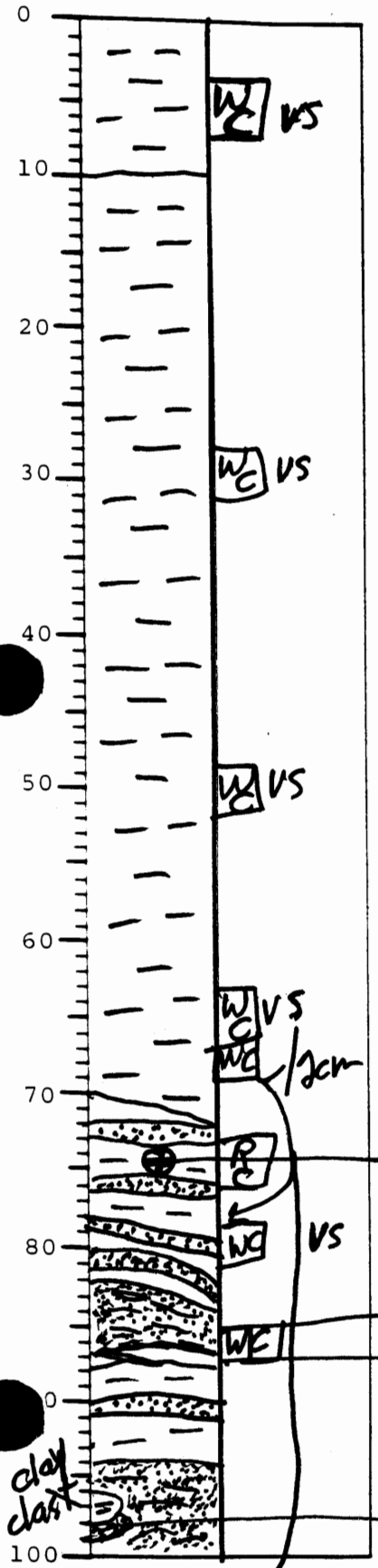
163 - .5 cm silt lam.

End of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. GC 50



Detailed Description

0-10 Dark yellowish brown (10YR 4/2)
-gradational contact
10 – 70 homogeneous olive gray clay

90 – 70 cm silty very fine sand layers .5 – 1 cm

Wood a 73 cm 1X3 cm

85-90 clay layer

2-3 mm clay stringers

silty clay

94-100 silt w/ clay stringers

fine sand bleb

68-104 = WC each 2cm

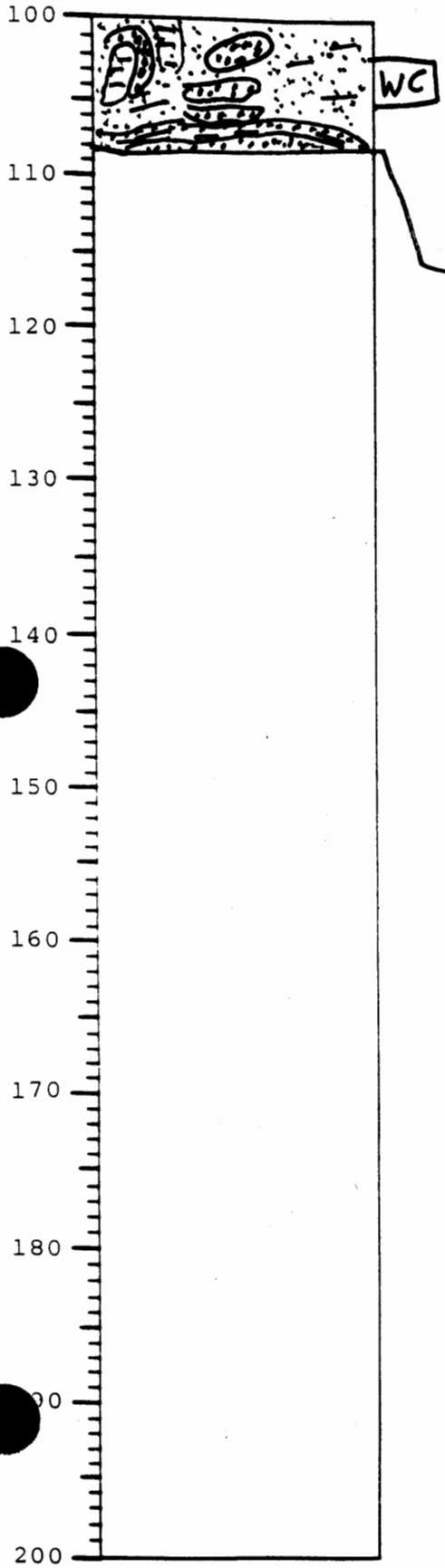
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. GC50

(m)

Lithologic Log



Detailed Description

100-107 clayey silt w/ clay blebs and fine-medium sand

irregular " "

end of core

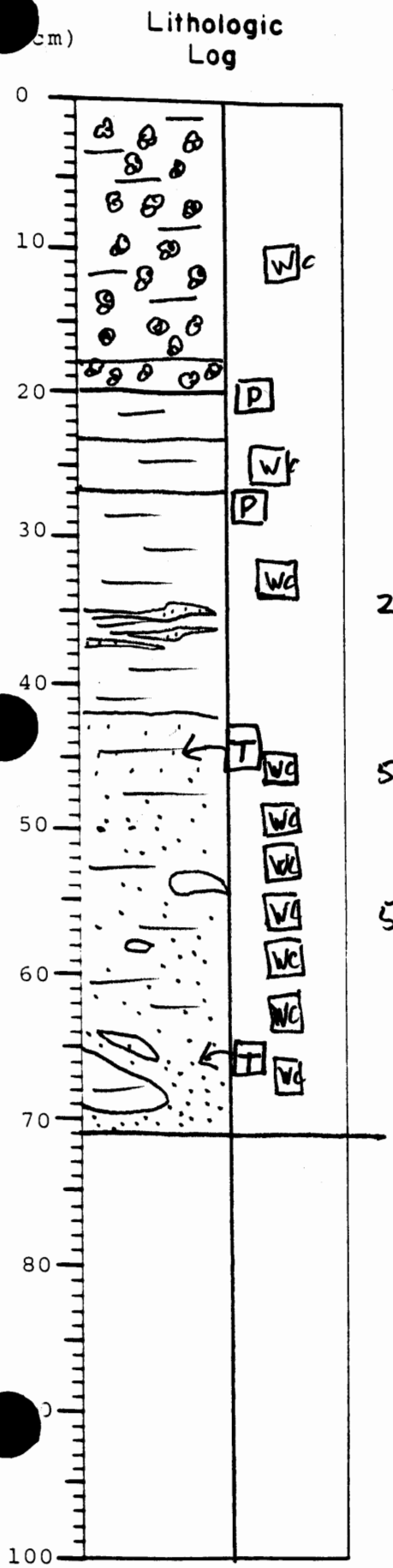
105-107 - interbedded .5 cm clay + silt laminae disturbed by core catcher

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. GC51



Detailed Description

0-18 Moderate yellowish brown 10YR 5/4 slightly muddy foram sand

18-20 Greyish orange 10YR 7/4 clean, well sorted foram sand

20-23 Moderate brown 5YR 4/4 clay with light brown 5YR 5/6 clay as 0.5 cm band at base

23-27 Moderate yellowish brown 10YR 5/4 clay

27-53 Dark yellowish brown 10YR 4/2 clay with dark yellowish brown silty clay bands of irregular thickness

53-Base Dark yellowish brown muddy fine sand with clasts of dark yellowish brown clay.

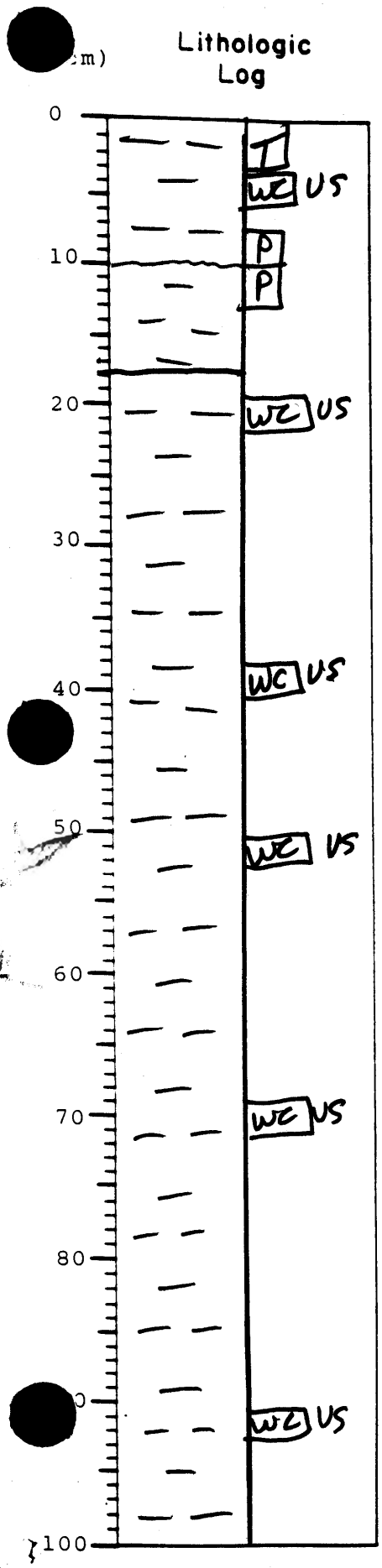
50-51 Blebs of black organic matter

VISUAL CORE DESCRIPTION

F-4-90

Nelson

Sta. _____ Core No. PC52



Detailed Description

0-10 Moderate yellowish brown (10YR5/4) & rich clay gradational to dark yellowish brown from 13-17 cm – sharp break w/ gray @17

17-121 Massive olive gray clay (5Y 4/1)

121 – slight color change to Brownish gray clay

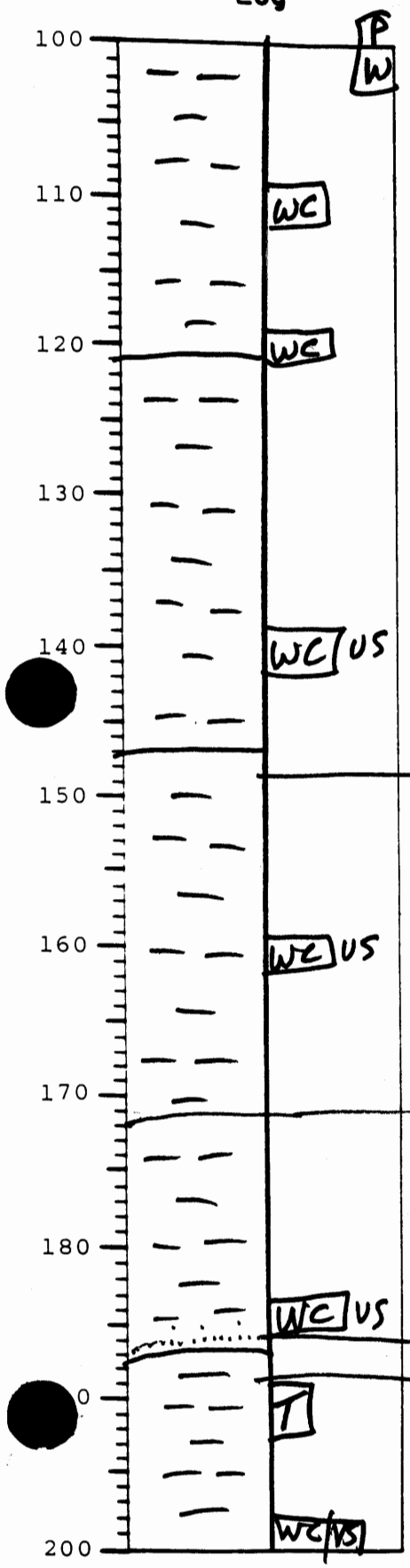
147 – slight color change to olive gray

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 52

Lithologic Log



Detailed Description

Very subtle color changes in clay

slightly grayer olive gray (5Y 3/2)

subtle color change

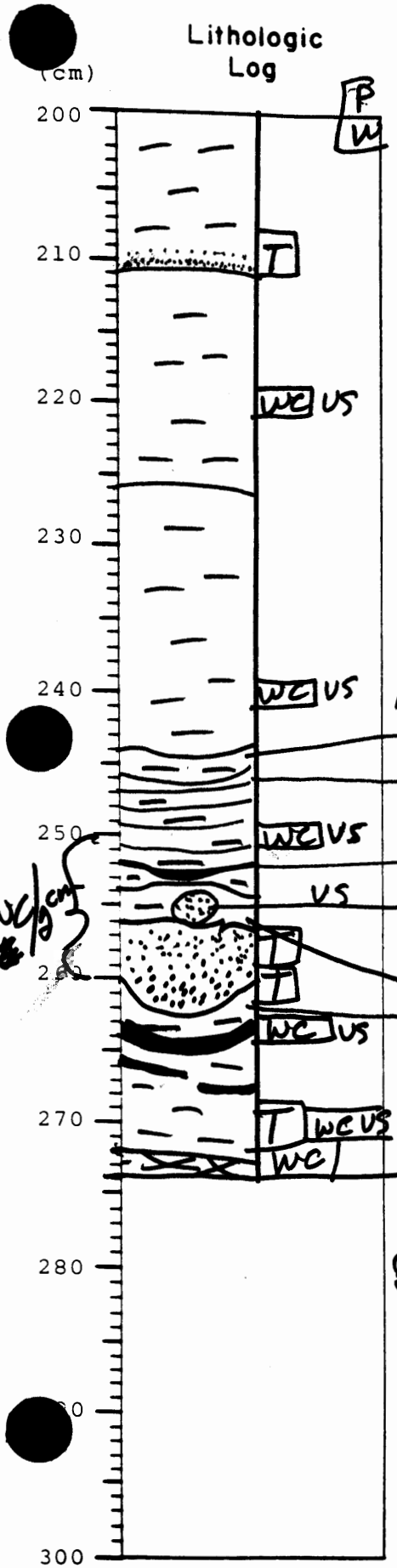
possible graded mud turbidite

olive gray (5Y 3/2) slightly siltier clay above brownish gray clay

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC52



Detailed Description

.5 cm olive gray silt grading into mud turbidite?

244 - 270 - variable color banding of clays

Moderate brown clay color band

Olive gray 246 grading to dusky yellow brown

244 - 252 - 1 mm black laminae

down bowed core distortion

fine sand bleb - 2cm diameter

Olive gray clay band (5Y 3/2) clay

Dusky yellowish brown to end of core (10YR 2/2)

End of Core

256-260 sand layer - graded

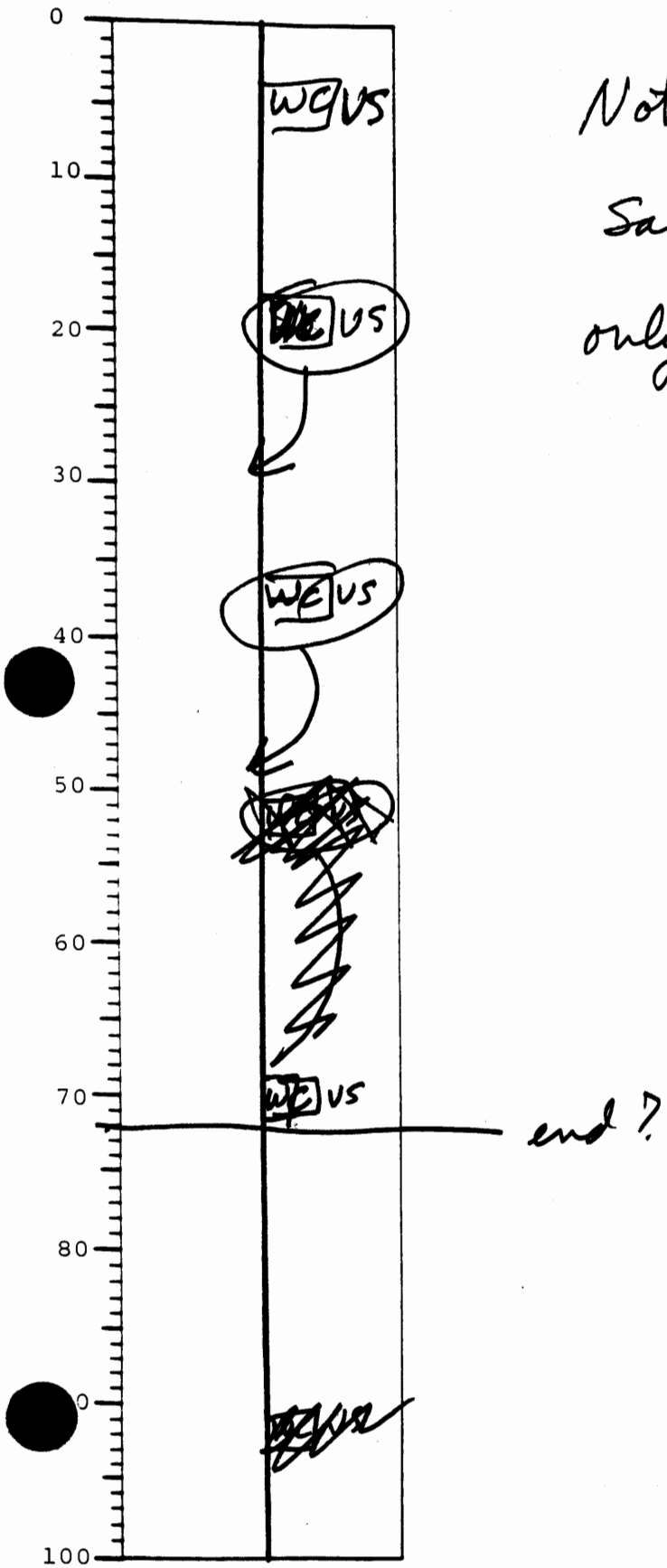
base = medium sand

top = silty fine sand

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC52



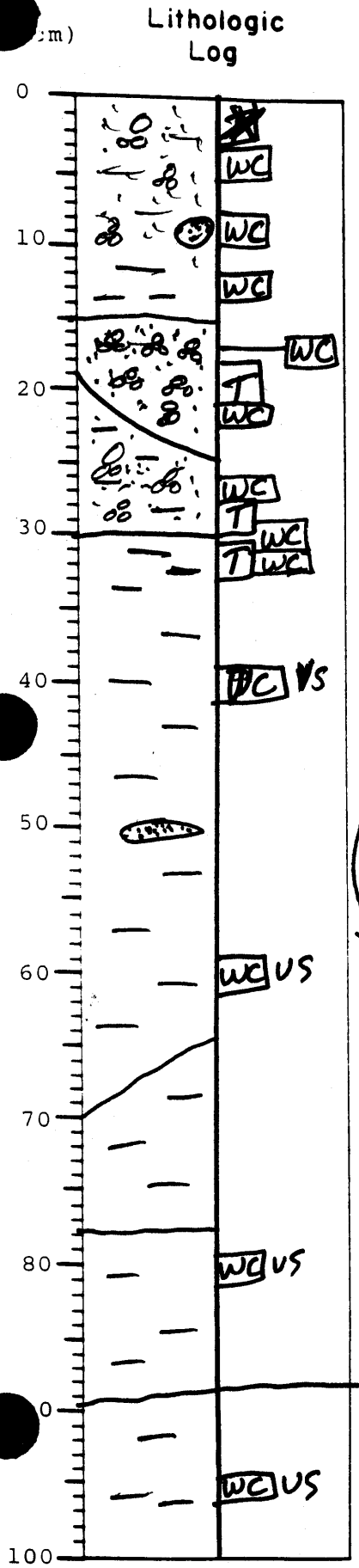
Detailed Description

Not logged because exactly same as the PC 52 only sampled by Homa

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC53



Detailed Description

— Dark yellowish brown

0-10 ∞ mud w/ bioturbation up to 1 cm w/ clean ∞'s filling burrow — this unit = 14 cm thicker in trigger

11-12 oxidized indurated clay layer — Grayish brown 5YR 3/2

15-24 ∞ sand — Olive gray 5Y 4/1

19-24 to 29 muddy ∞ sand — lt olive gray (5Y 6/1)

29-30 lt olive gray clay — (5Y 5/2)

30-50 dark yellowish brown homogeneous clay (10YR-4/2)

50-70 olive gray clay

70-77

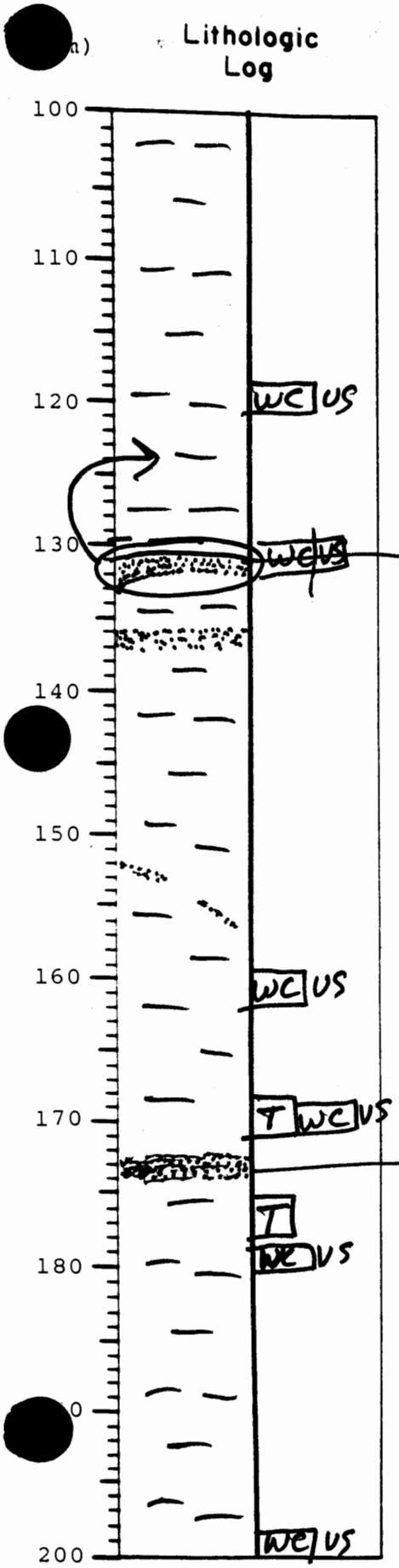
77-90 dusky yellowish brown clay

end of section 1

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC53



Detailed Description

77 to 174 - dark yellowish brown but below surface 1 m is olive gray
- possible flow in mixing?

122-123 80 sandy siliciclastic silt
2 1mm laminae

136-137 massive muddy silt

152-154 silt stringers

80 sand clean 173-174

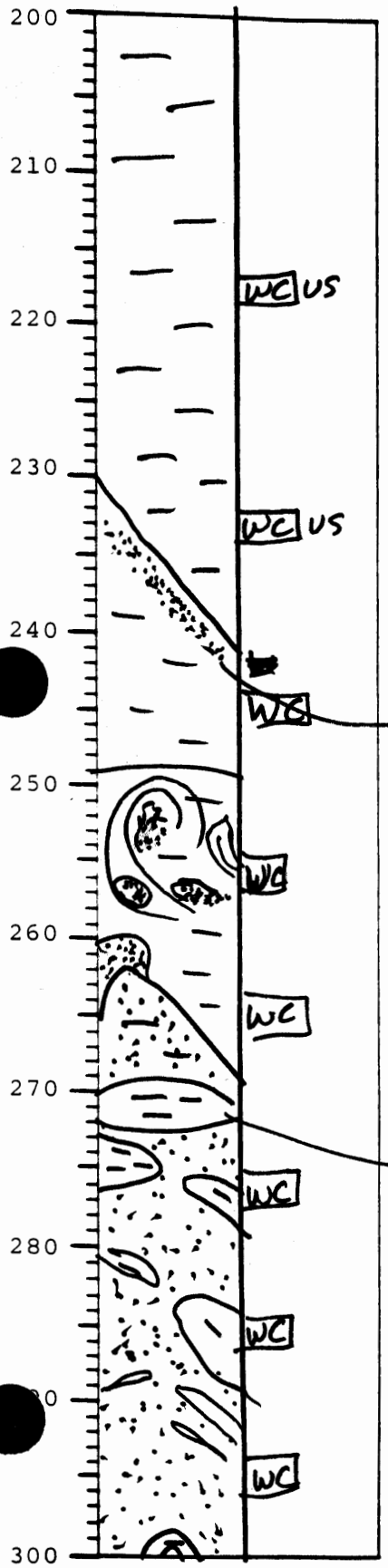
174 to 230-240
(5Y 3/2) Olive gray homogeneous clay

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC53

Lithologic Log



Detailed Description

230 - 330 - stratigraphy preserved but extensive flow-in

230-240 start of disturbed fine sand laminae in clayey silt — Dusky yellowish brown muddy layers

252-259 - clean fine sand blebs in olive gray clay w/ flow in

263 - disturbed brown ~~clay~~ mud w/ clean silt + clayey silt bands

olive gray clay bleb

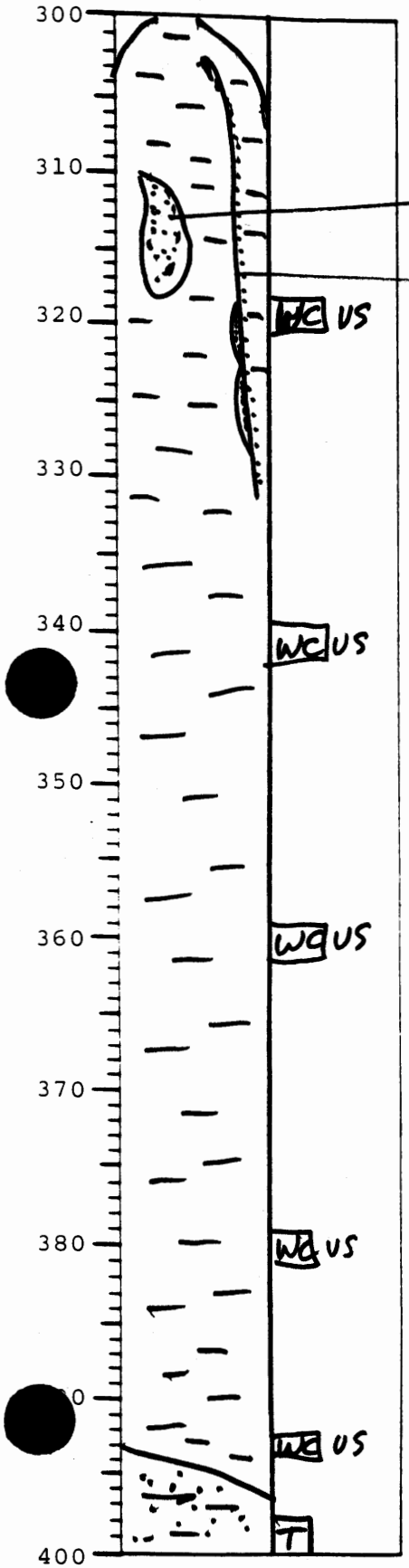
263 - 300 sandy silty unsorted distorted mud w/ flattened + elongated clay ~~clasts~~

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. BC 53

Lithologic Log



Detailed Description

300 – 395 olive gray clay w/

clean sand bleb

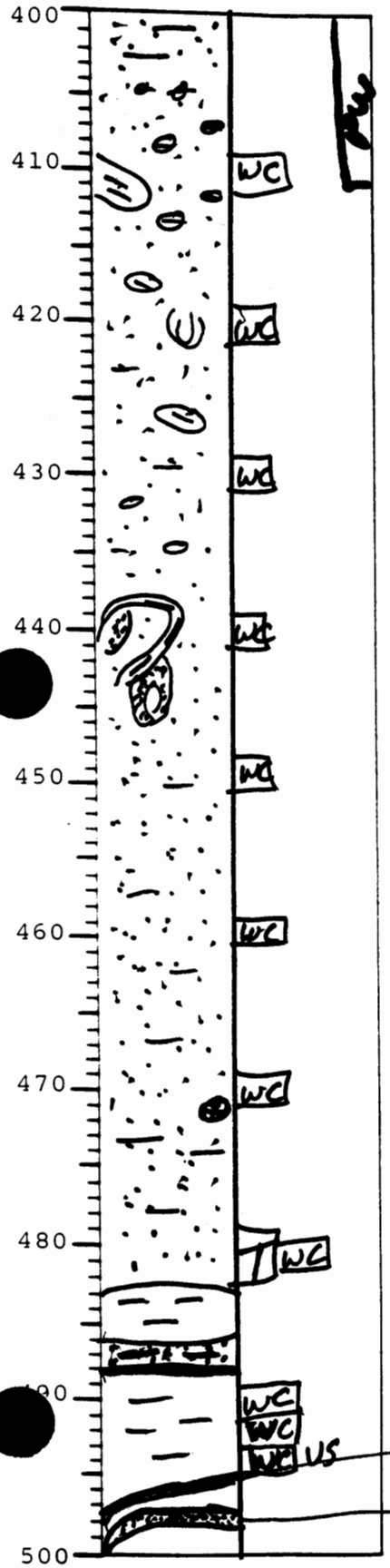
flow in clean sand stringer } in upper part

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 53

Lithologic Log



Detailed Description

395–483 dusky yellowish brown w/ occasional clay clasts from 2cm x 1cm to 2mm dia clasts most common in upper half of layer

1 very small 1mm wood fragment

488-498 · dark yellowish brown

dark band .5cm

fine sand .5mm

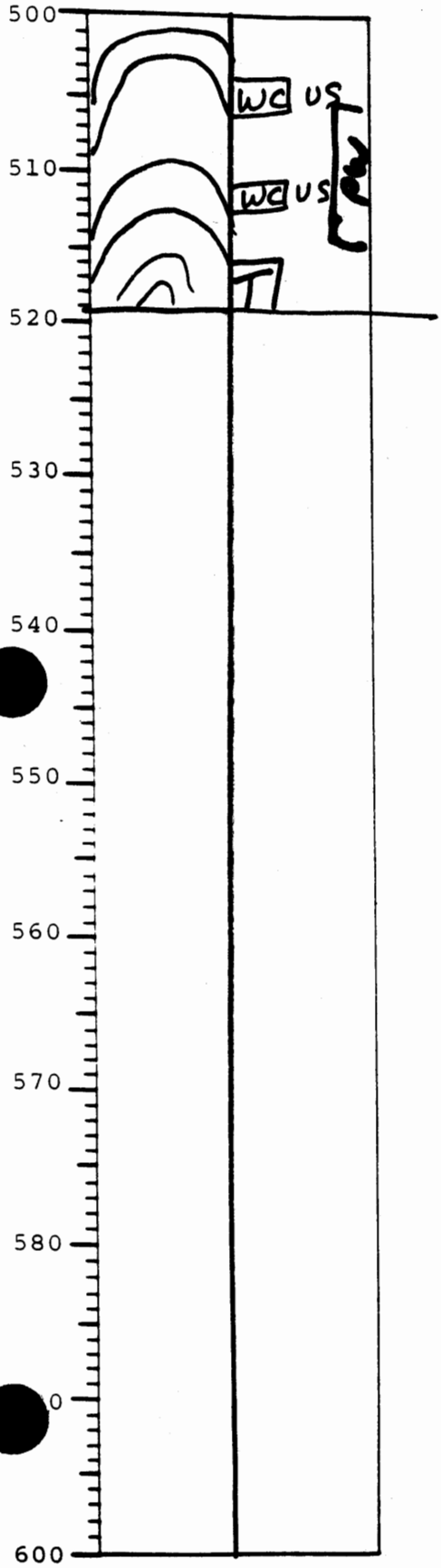
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC53

(m)

Lithologic Log



Detailed Description

499- 519 .2 cm black carbonaceous layer

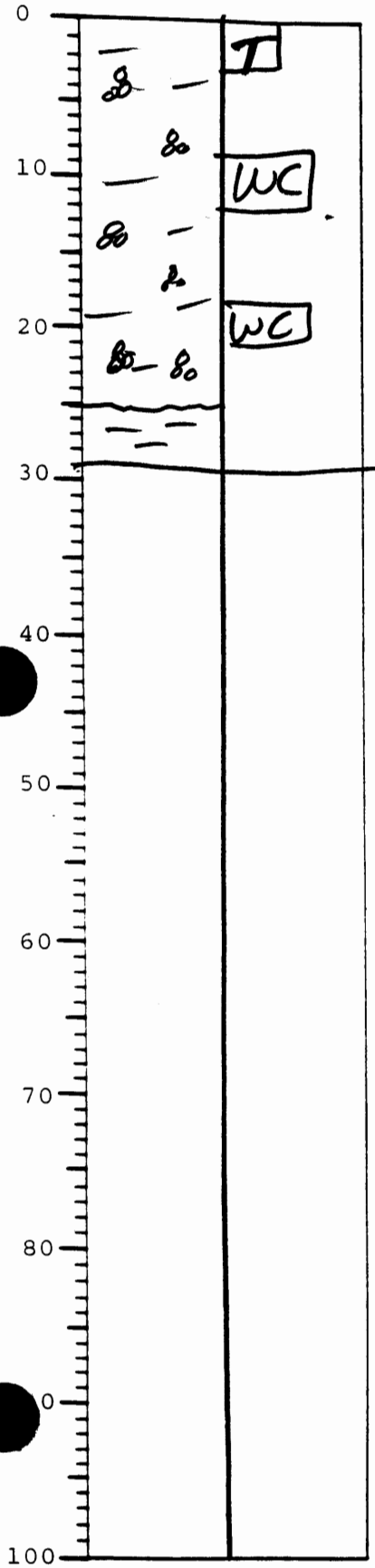
end of section

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC53

(cm) Lithologic Log



Detailed Description

0 - 25 - Dark yellowish brown Bo mud

15 cm longer than PC section

transition to grayish brown

end of section

VISUAL CORE DESCRIPTION

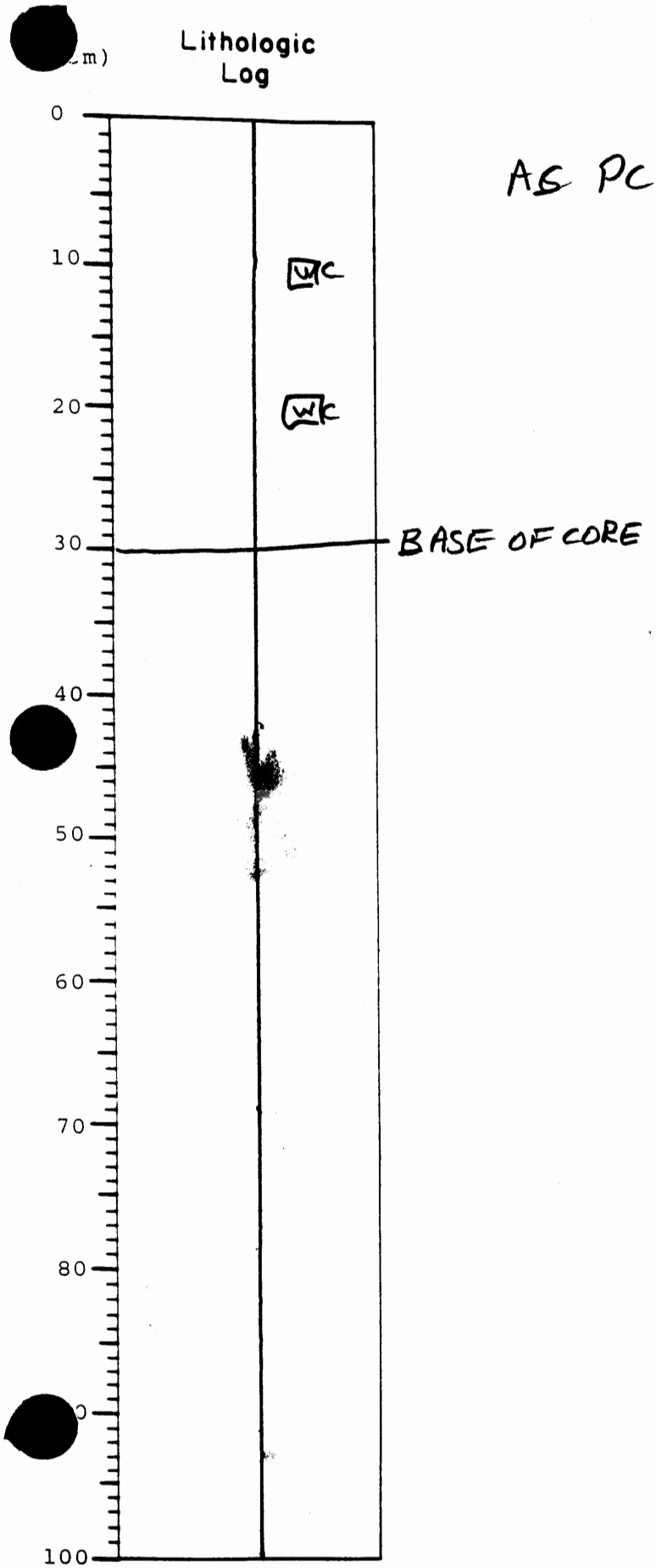
F-4-90

Page 1 of 1

Kenyon

Sta. _____ Core No. TC54

Lithologic Log



Detailed Description

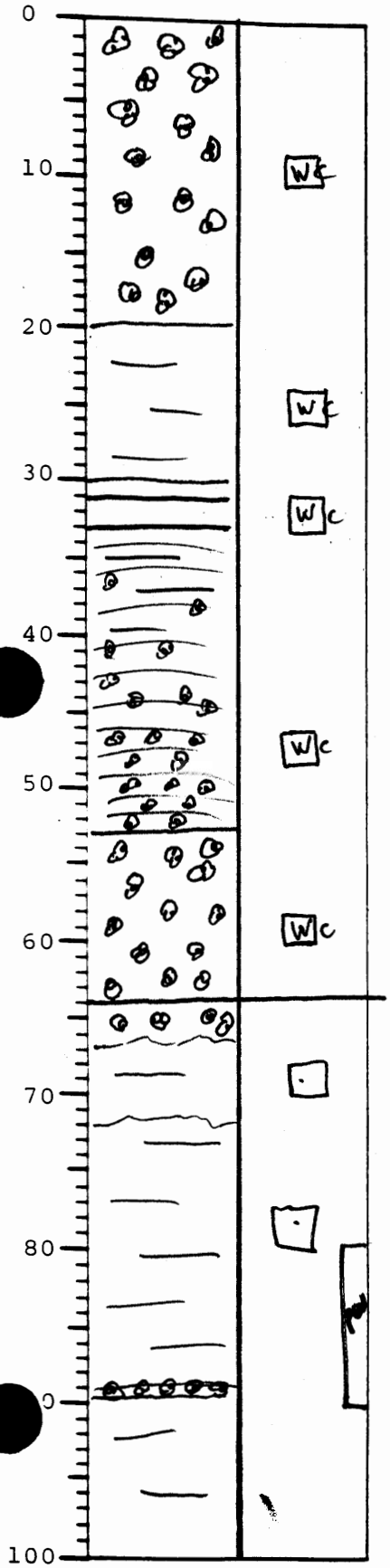
As PC54 thus not described.

VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. PC 54



Detailed Description

0-20 Moderate yellowish brown 10YR 5/4 foram sand

20-30 Mod. yellowish brown 10YR 5/4 clay with foram sands in pockets

30-33 Moderate olive brown 5Y 4/4 clay with 3 narrow 0.3cm Fe bands (Mod. yellowish orange 10YR 6/6)

33-53 Olive gray 5Y 3/2 foram sand, with current bedding grading up into olive gray muddy sand

53-67 Light olive gray 5Y 5/2 foram sand.

END OF SECTION

67-72 Moderate olive brown 5Y 4/4 and light olive brown 5Y 5/6 Fe stained clay.

72-79 Dark yellowish brown 10YR 4/2 clay - gas charged - small holes.

89-90 Muddy foram sand

VISUAL CORE DESCRIPTION

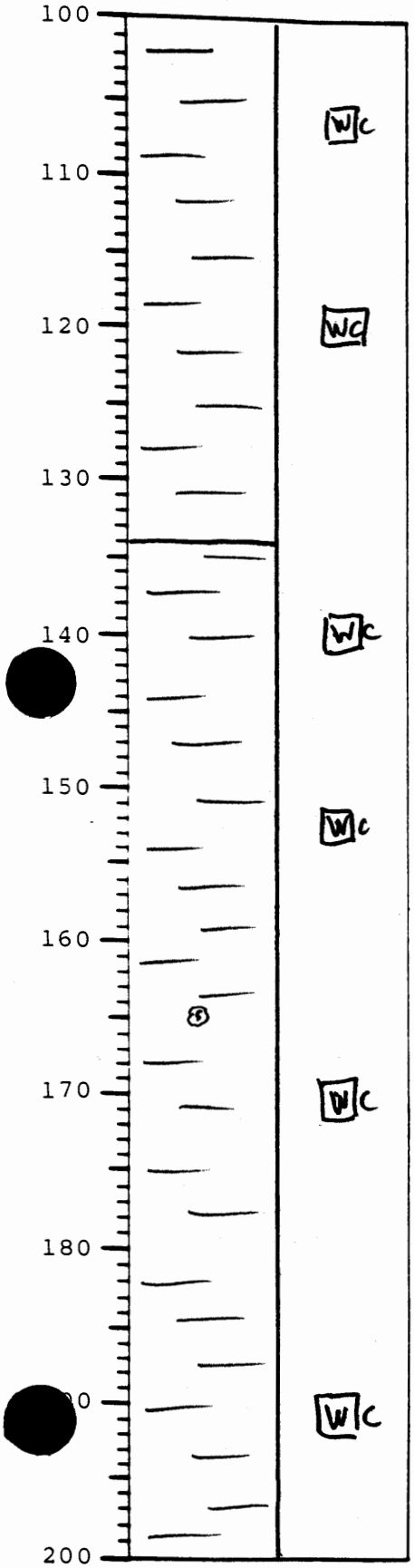
Kenyon

F-4-90

Sta. _____ Core No. PC 54

(m)

Lithologic Log



Detailed Description

72 - BASE Dark yellowish brown clay 10YR 4/2

134 Sharp, but minor, colour change

VISUAL CORE DESCRIPTION

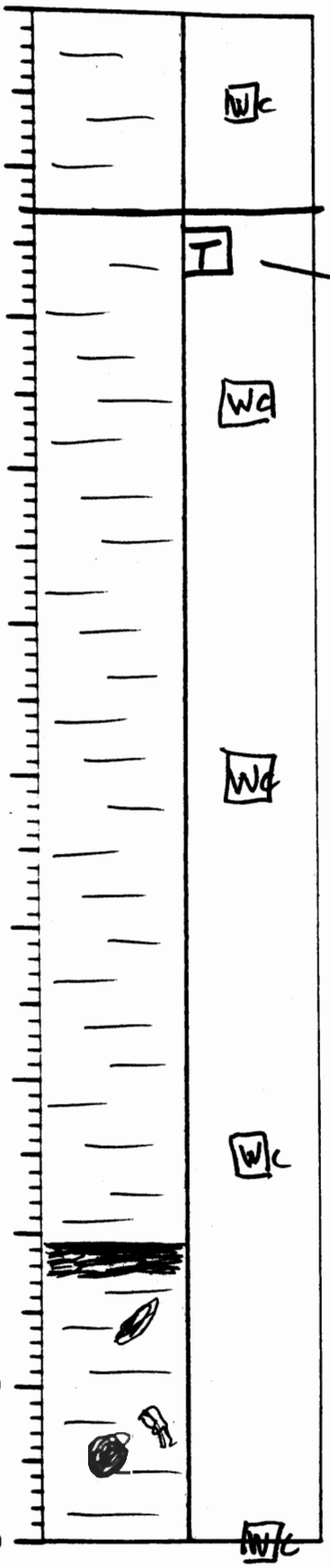
Kenyon

F-4-90

Sta. _____ Core No. PC 54

Lithologic Log

(cm)



Detailed Description

~~80c~~

End of section

of massive mud

280-283 Grayish black N2 organic band

283-298 Patches of grayish black burrow traces

VISUAL CORE DESCRIPTION

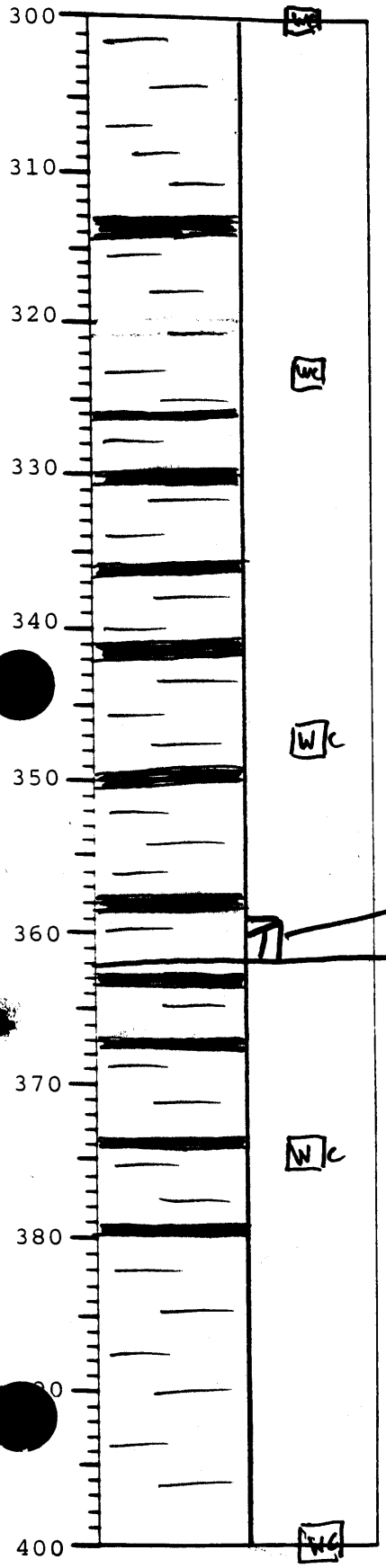
F-4-90

Kenyon

Sta. _____ Core No. PC 54

Lithologic Log

Detailed Description



cf of banded mud

END OF SECTION

VISUAL CORE DESCRIPTION

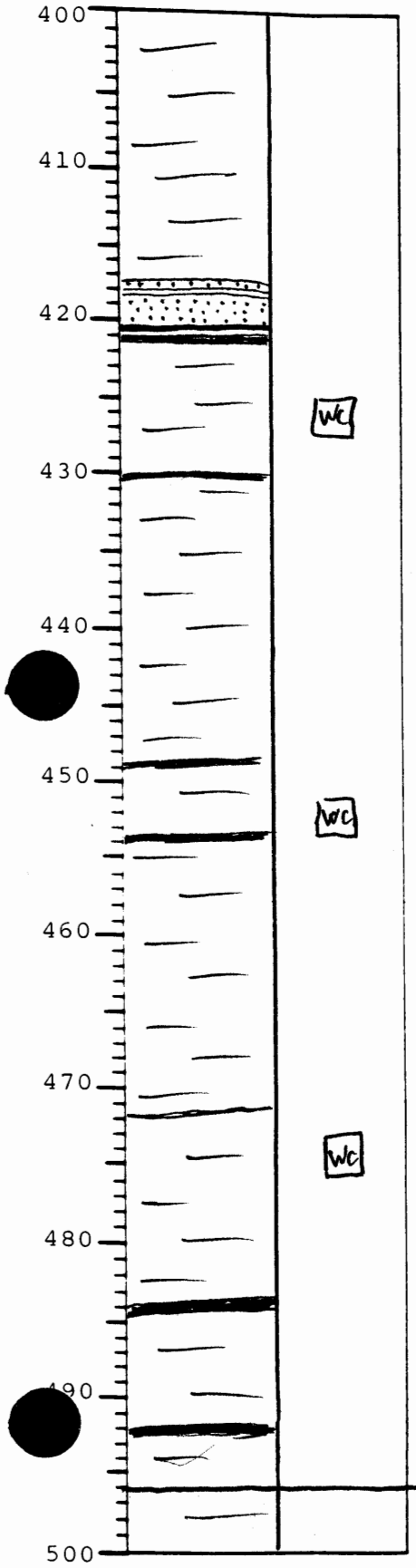
F-4-90

Kenyon

Sta. _____ Core No. PC 54

Lithologic Log

Detailed Description



418-420 Muddy silt with organic band beneath

CHN – ⚬ or silici clastic ?

END OF SECTION

VISUAL CORE DESCRIPTION

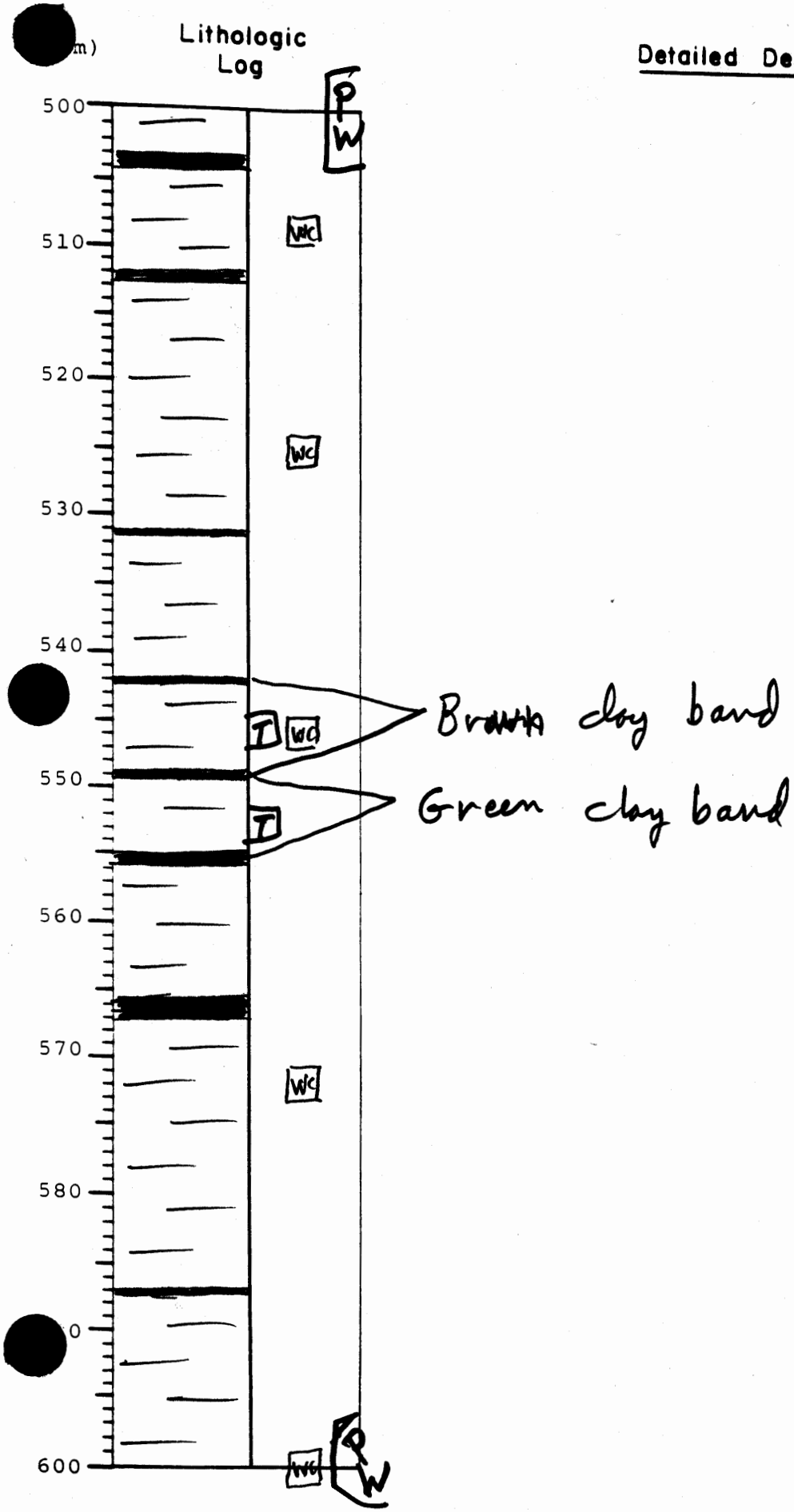
F-4-90

Kenyon

Sta. _____ Core No. PC 54

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

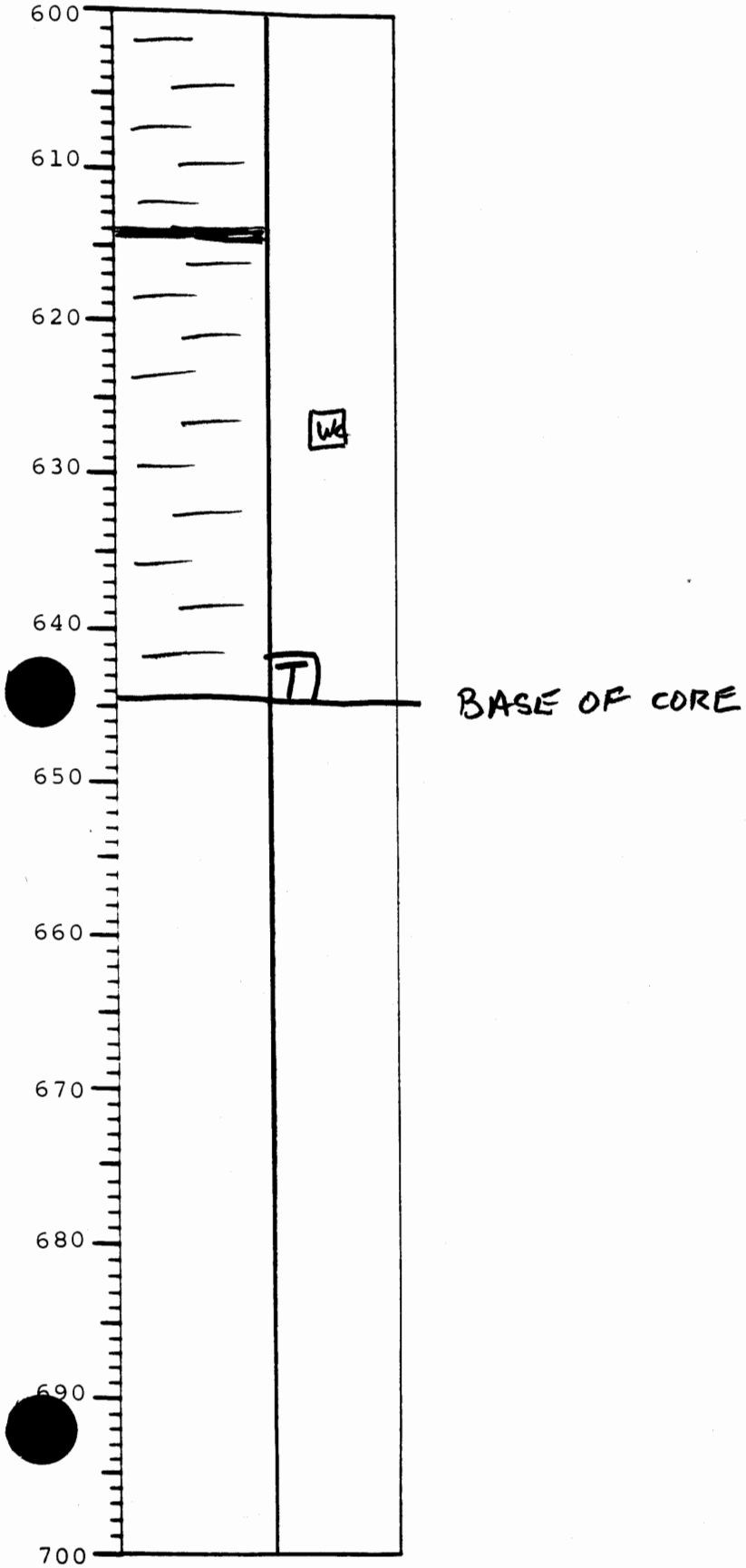
F-4-90

Kenyon

Sta. _____ Core No. PC 54

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

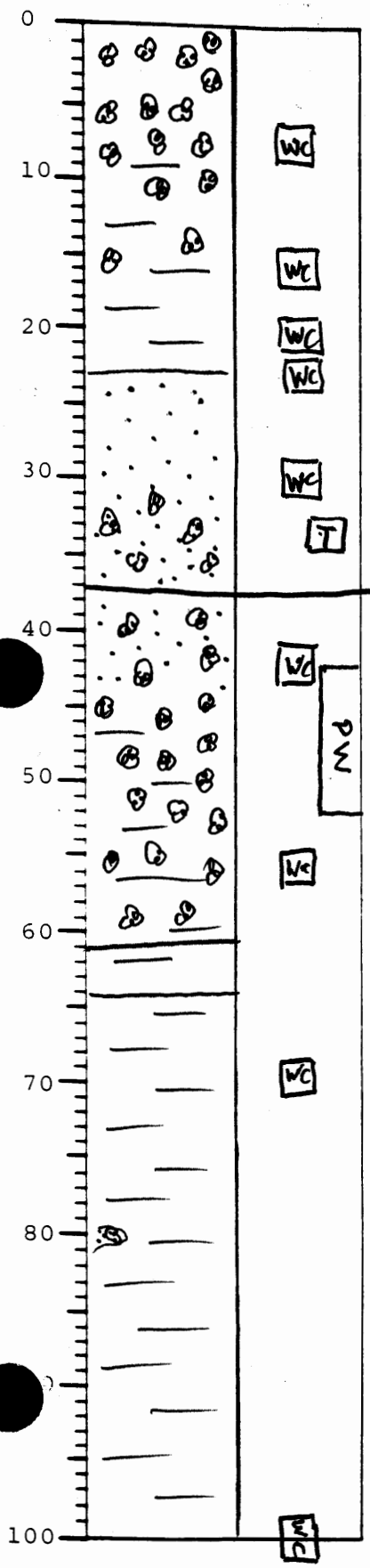
E-4-90

Kenyon

Sta. _____ Core No. PC55

621 cm - not sampled because it correlated exactly w/ 54

(cm) Lithologic Log



Detailed Description

0-23 Moderate yellowish brown 10YR/5/4 muddy foram sand grading down into clay

23-26 Mottled light olive brown and light olive gray clay - indurated Fe rich, oxidised

26-61 Olive gray 5Y 3/2 muddy fine sand, with some forams. Increasing forams and light olive gray downcore

END OF SECTION

61-64 Moderate olive brown 5Y 4/4 clay

64-Base of core Dark yellowish brown 10YR 4/2 clay

80 Burrow with forams in clay fill

VISUAL CORE DESCRIPTION

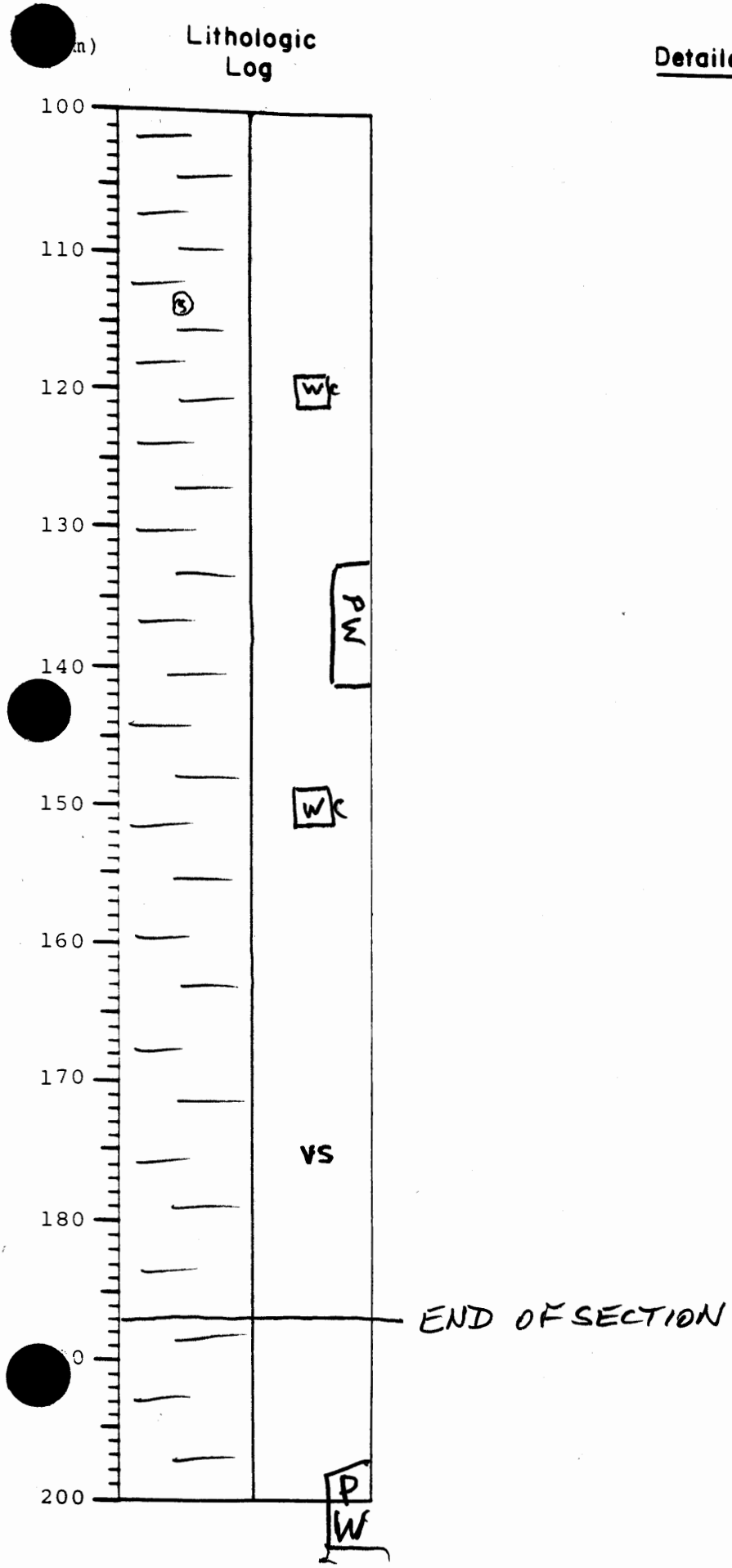
F-4-90

Kenyon

Sta. _____ Core No. PC55

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

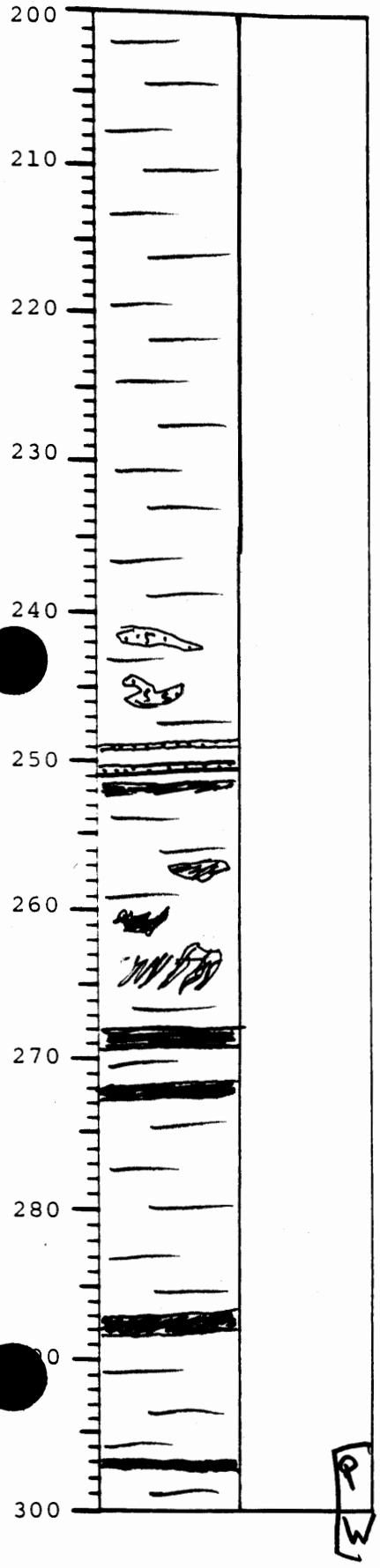
F-4-90

Kenyon

Sta. _____ Core No. PC55

Lithologic Log

(cm)



Detailed Description

249-251 2 silt bands. Silty burrow fills above.

251-268 Grayish black organic patches

251-576 Grayish black N2 organic bands
Average separation 13cm.

VISUAL CORE DESCRIPTION

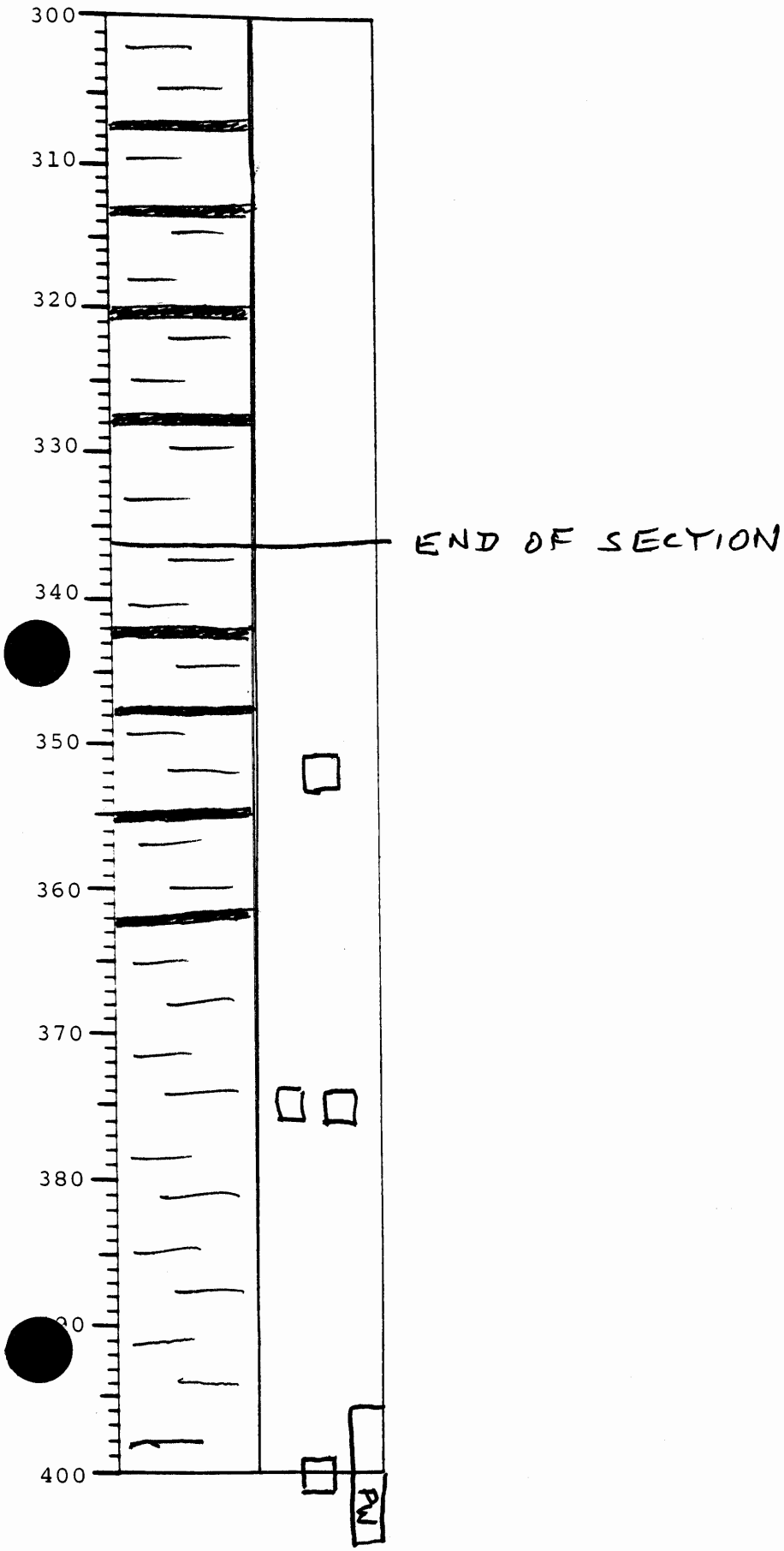
F-4-90

Kenyon

Sta. _____ Core No. PC55

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

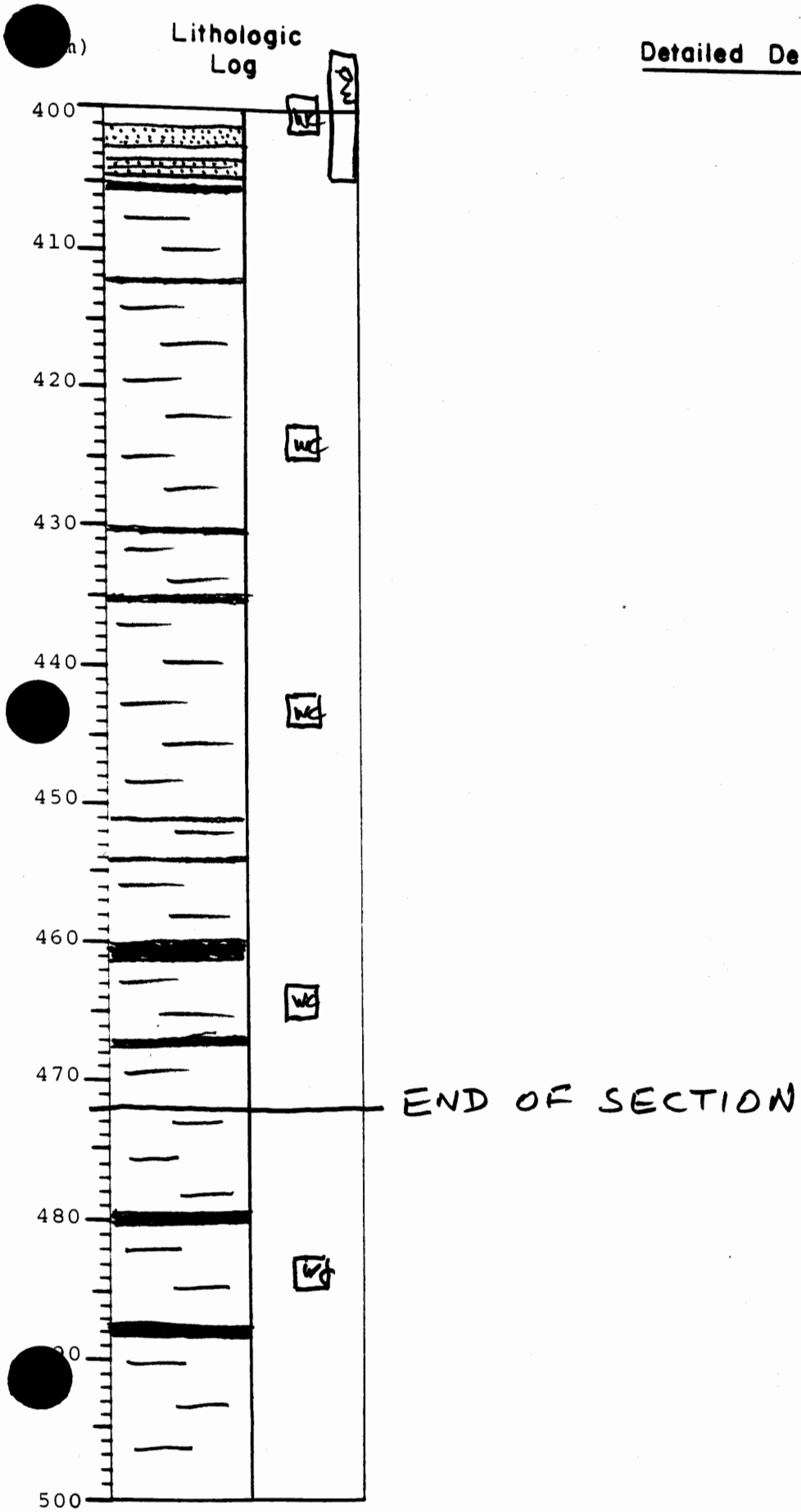
F-4-90

Kenyon

Sta. _____ Core No. PC55

Lithologic Log

Detailed Description

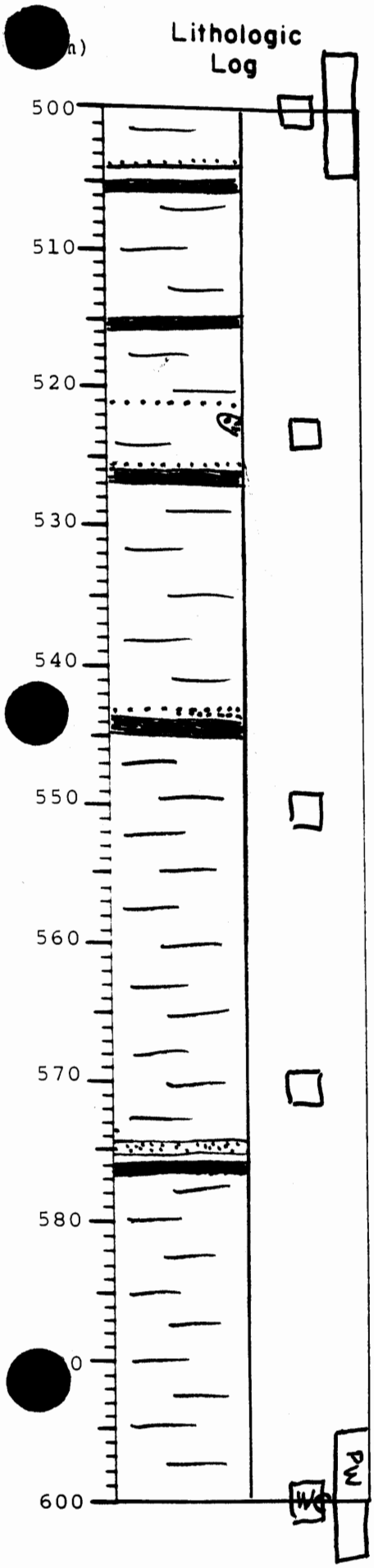


VISUAL CORE DESCRIPTION

Kenyon

F-4-90

Sta. _____ Core No. PC 55



Detailed Description

504 Dark yellowish brown 0.2cm silt + foram layer + small piece of wood (left in place i.e. not taken for analysis)

544 Thin, 0.2cm foram layer

575 Silt layer, 0.8cm thick.

VISUAL CORE DESCRIPTION

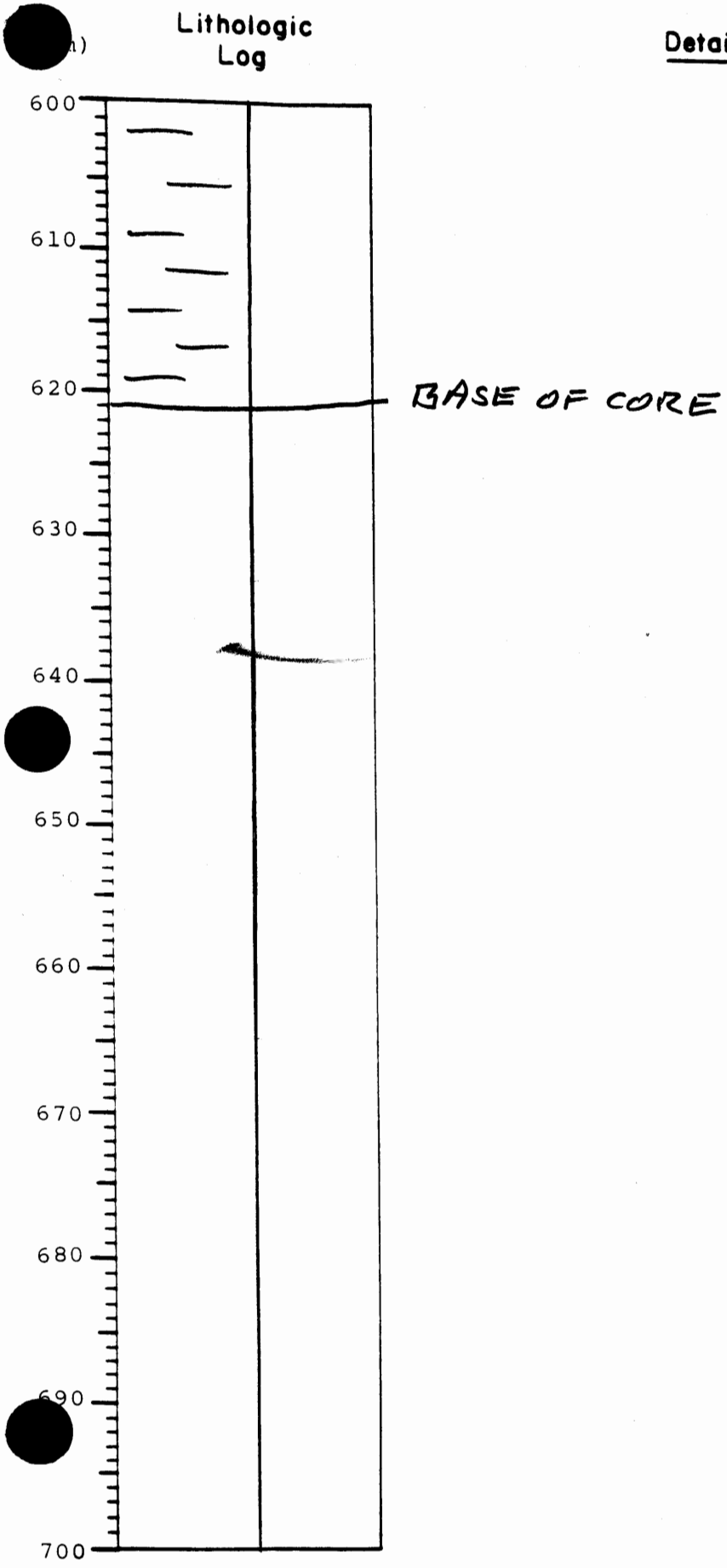
Kenyon

F-4-90

Sta. _____ Core No. PC55

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

Kenyon

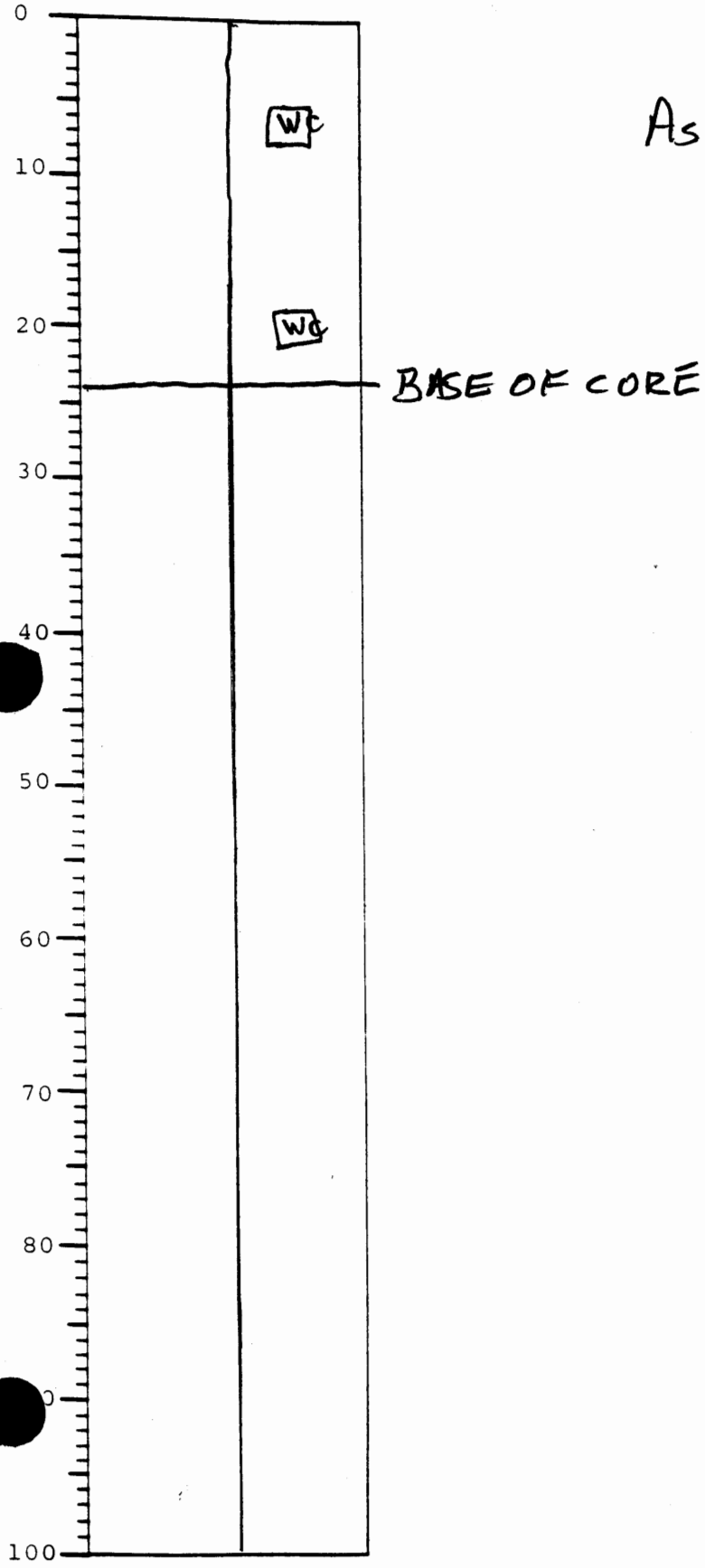
F-4-90

Sta. _____ Core No. TC55

(cm)

Lithologic Log

Detailed Description



As PC 55

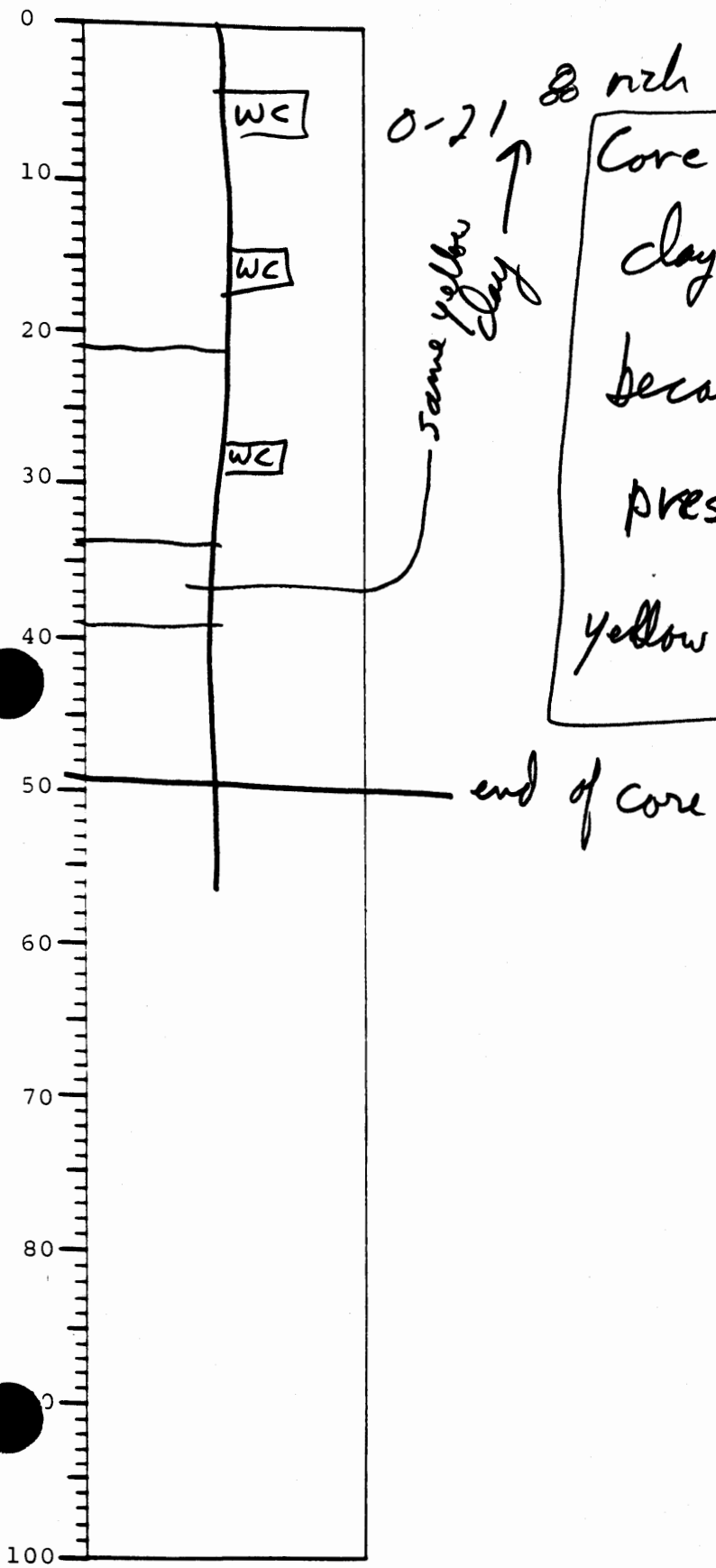
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC 56

48 cm

(cm) Lithologic Log



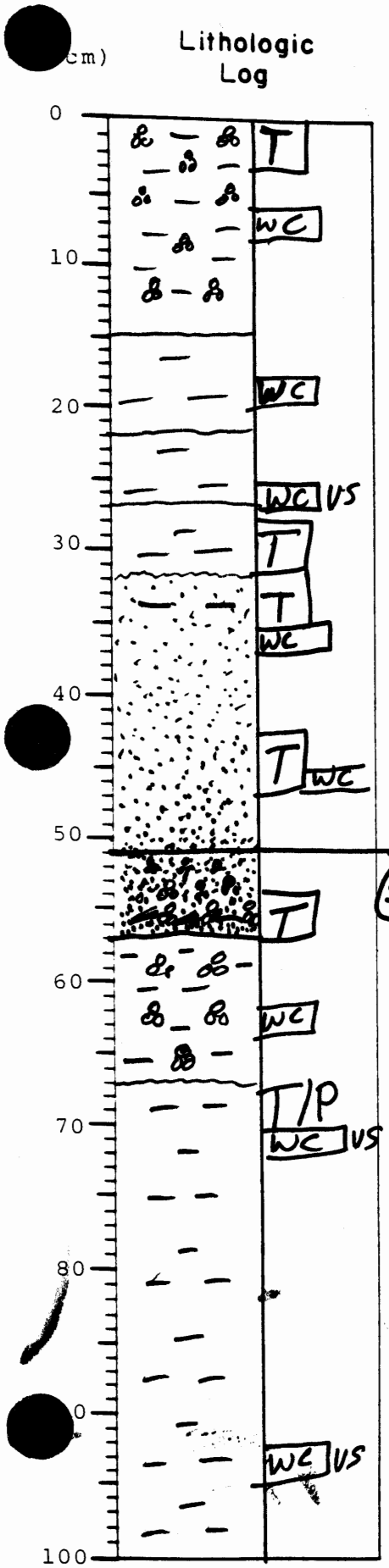
Detailed Description

Core is bounced w/ 2 yellow clay sections ∴ not logged because PC has a well-preserved upper section w/ yellow clay section = to TC

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC56



Detailed Description

0-15 Moderate yellowish brown (10YR 5/4) ∞ mud + muddy ∞ sand

15-22 same colored clay w/ few ∞

22-25 dark yellowish brown 10YR 4/2

25-27 grading to Olive gray (5Y 4/1) homogeneous clay

by 32 colors graded to darker olive gray (5Y 3/2)

32-57 graded carbonate turbidite bed

- at base " med. sand w/ carb pteropod shell clasts

end of section

mainly ∞, max clast size = .5 cm - only rare fragments - oxidized base limonitic staining & pale yellowish brown above

- at top = silt sized max clast size

- lack of Halimeda = deep H_2O origin of tc (ie Fla. escarpment at >1500 m upper edge depth)

color grades from pale yellowish brown to olive gray @ the top (10YR 6/2)

57-67 - pale yellowish brown ∞ clay or clayey sand

67-68 - greenish to semi consolidated clay

68-72 dark yellowish brown clay

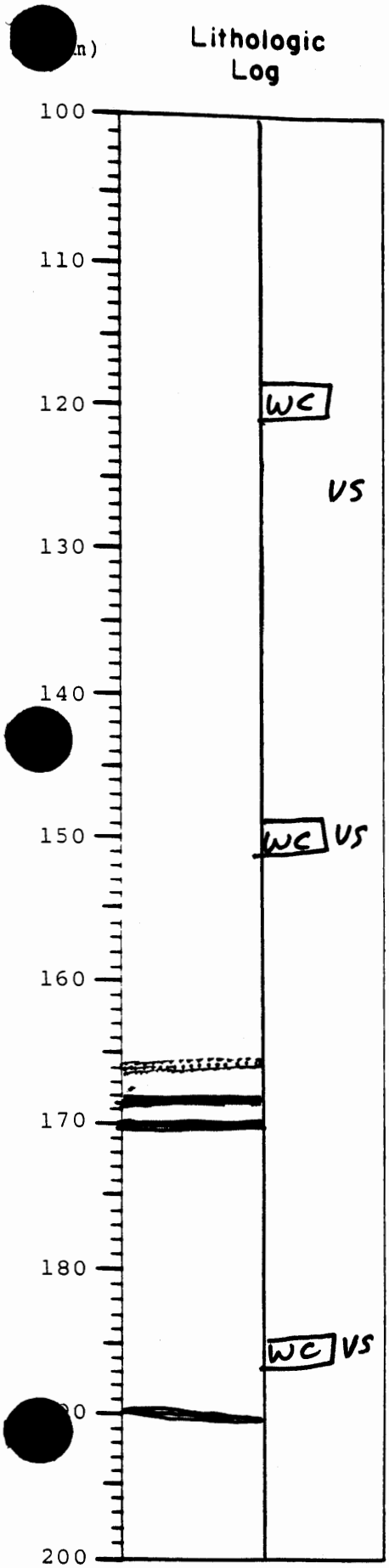
72-90 " " grading to dusky yellowish brown + lt. olive grading

100 to [illegible] gray clay

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC56



Detailed Description

100-166 Olive gray homogeneous clay

166-.3mm silt laminae

166-190 multiple fine laminations
Some slightly browner & others olive green
.1mm laminations are black carbonaceous debris

190-200 more massive clay w/ less defined laminations

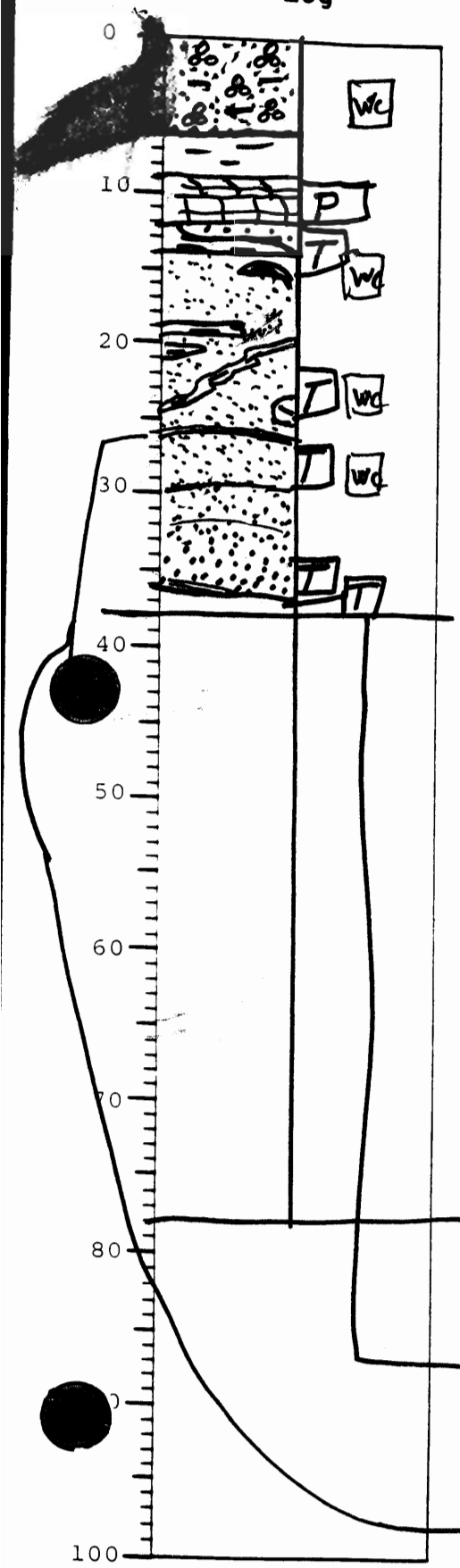
End of Core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. GC 57

Lithologic Log



Detailed Description

0 – 78 but core only 0 – 38

40 cm of flow-in pellets at the top & highly disturbed by barrel retrieval

0 – begins at end of Pellets

0 – 6 = dark yellowish brown (10YR 4/2) muddy sand

transitional boundary

6 – 9 = moderate " " clay

9 – 12 " brown oxidized & indurated clay → (5YR 3/4)

12-15 Olive gray clay 5Y 3/2 band in silt/sand

12 – 36 all sand layers

15 – 25 ~~massive~~ slightly clayey silt w/ mudclasts (?) & or clay lamina @ 19 & 23

25 – .3 mm dark carbonaceous lamina

25 – 36 = laminated clean sand – silt bed

base = fine sand & top = coarse silt

35 – 1 mm clay stringer

36 – 38 = gray clay w .2 mm dark bands

End of Core including flow in

End of good core = 38

Very important question are there 2 ~~[illegible]~~ sand beds or lower graded clean sand & upper muddy sand w/ clasts

VISUAL CORE DESCRIPTION

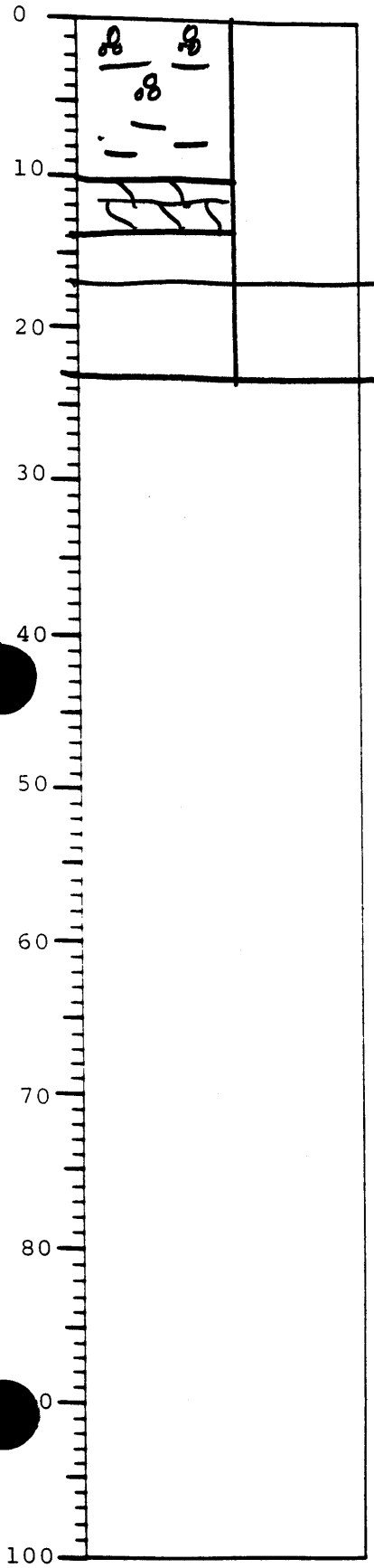
F-4-90

Sta. _____ Core No. GC59

58 tried & got nothing

59 @ the same S. levee location of 59

(cm) Lithologic Log



Detailed Description

0-10 top to bot Dark Yellowish brown @ top ∞ sandy mud to clay at base

10-14 indurated clay - moderate brown (5YR 3/4)

14-17 - olive gray clay

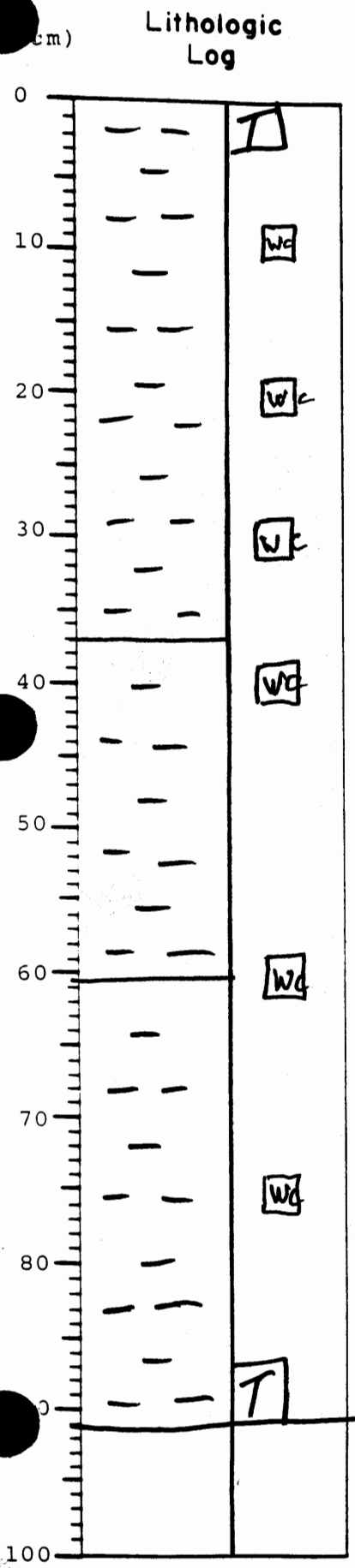
End sediment in tube

End of Core in Plastic Tube length of 23cm

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. GC 60



Detailed Description

0 – 37 Dusky yellowish brown clay 10YR 2/2

37 – 60.5 – olive gray 5Y 4/1

61 – 90 – banded dusky yellowish brown & olive gray 5Y 4/1

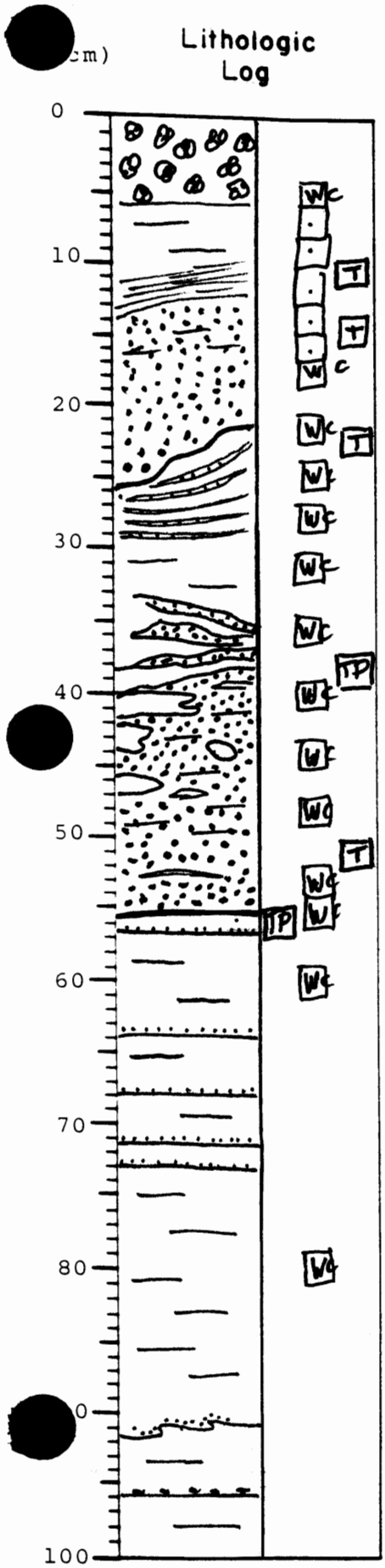
End of Core

VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. GC61



Detailed Description

Flow in for top 19cm of core - Zero at 19cm from top

0-6 Moderate yellowish brown 10YR 5/4 muddy foram sand

6-13 Moderate yellowish brown 10YR 5/4 and moderate brown 5YR 4/4 streaked clay - Fe rich oxidised layer. indurated at base (11-13 cm.)

13-25 Dusky yellowish brown 10YR 2/2 sand. Moderately well sorted, fine, sub-rounded sand, slightly muddy towards top.

25-56 Dark yellowish brown clay and fine sand admixture 10YR 4/2. Sharp base. Fine sand grading up into muddy fine sand. Appears to be one flow unit.

56- Base Silt-clay couplets. Dark yellowish brown 10YR 4/2. Sharp bases. Silt about 0.4cm thick and grading up into clay.

91 Irregular contact. Silt above.

96 0.2cm black organic sand size grains

VISUAL CORE DESCRIPTION

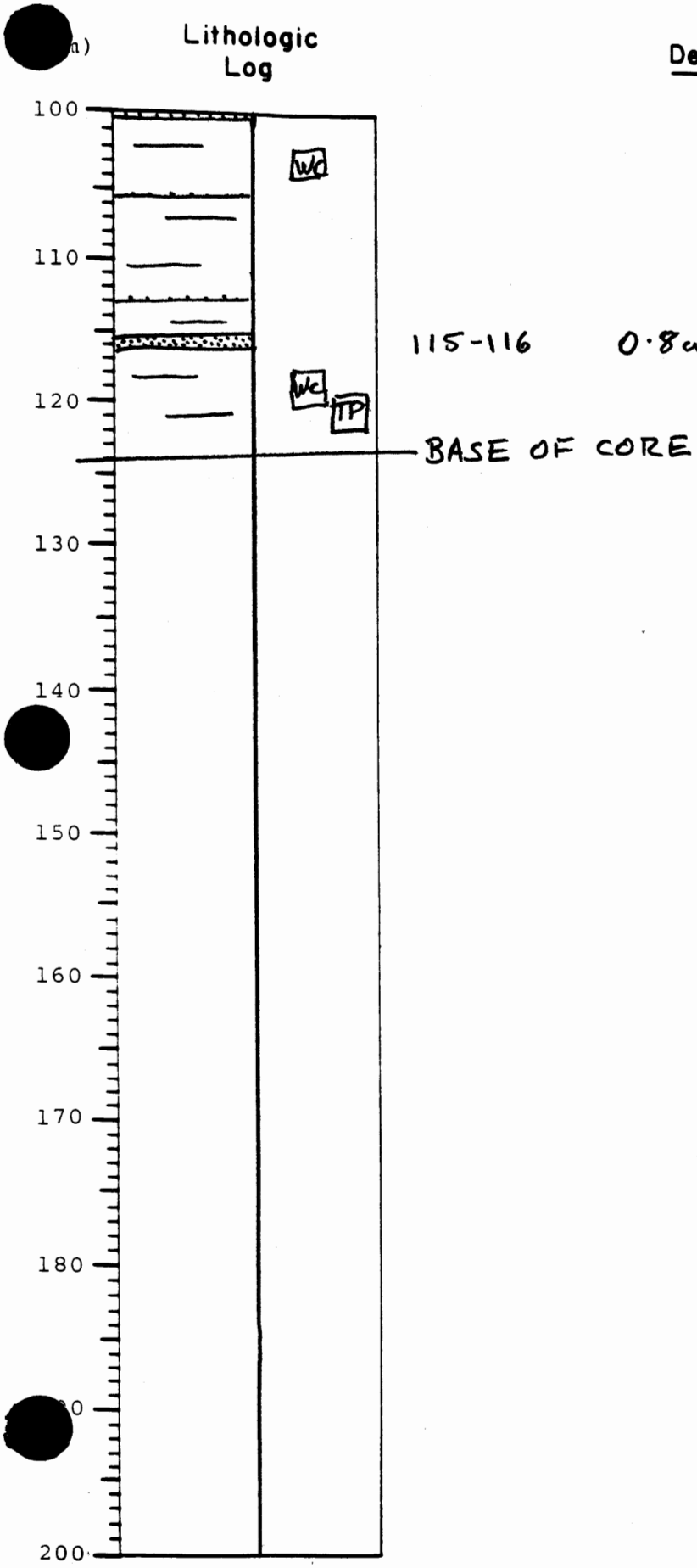
Kenyon

F-4-90

Sta. _____ Core No. GC61

Lithologic Log

Detailed Description



115-116 0.8cm silt

VISUAL CORE DESCRIPTION

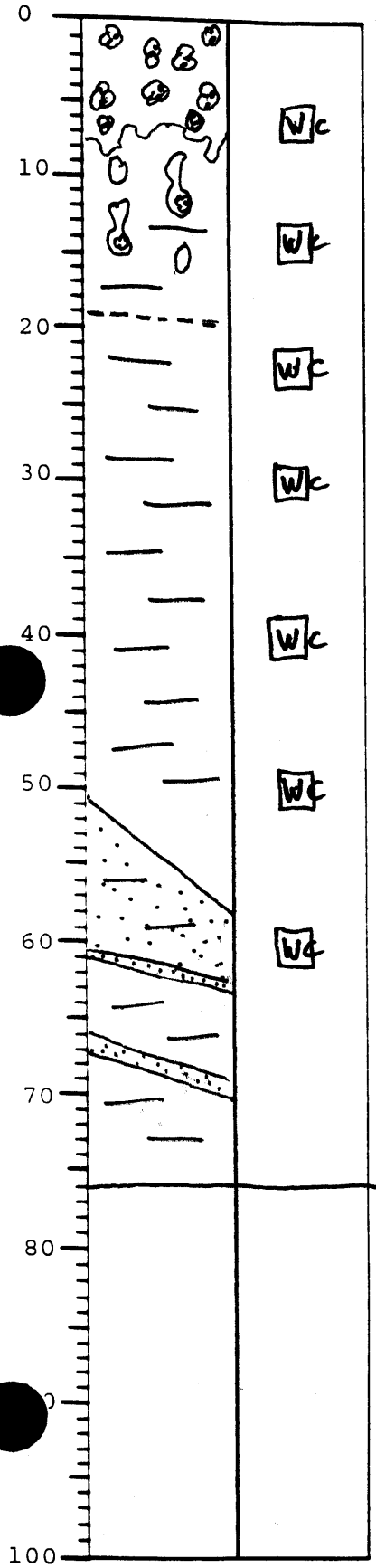
F-4-90

Kenyon

Sta. _____ Core No. TC 63

(m)

Lithologic Log



Detailed Description

0-7 Moderate yellowish brown foram sand 10YR 5/4

7-19 Clay with streaks of mod. yellowish brown 10YR 5/4 and moderate brown 5YR 3/4. Burrow fills of foram sand.

19-Base Featureless dark yellowish brown 10YR 4/2 clay

51-70 Faint bedding including silty mud

BASE OF CORE

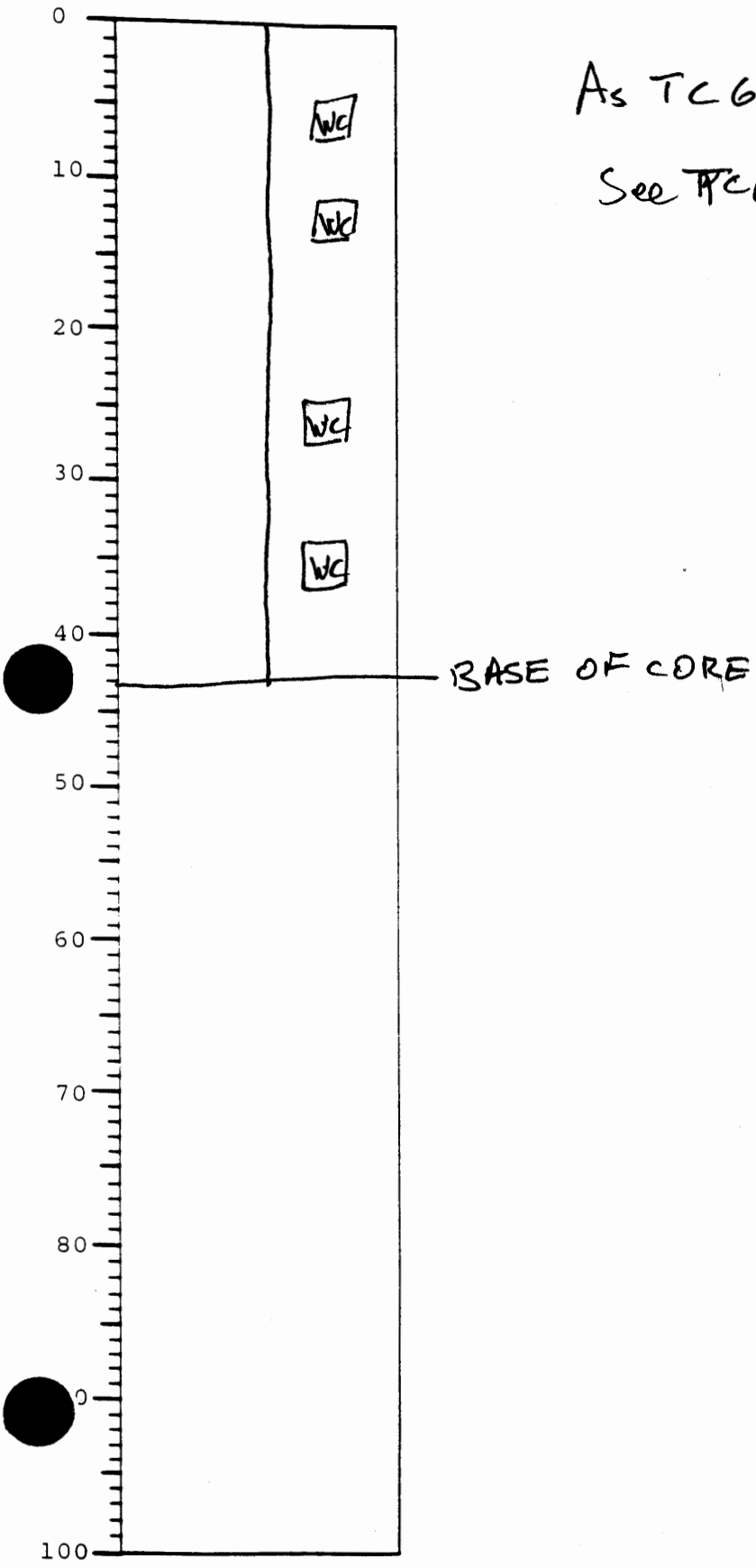
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC63

(cm)

Lithologic Log



Detailed Description

As TC63 but shorter

See TC63 for description

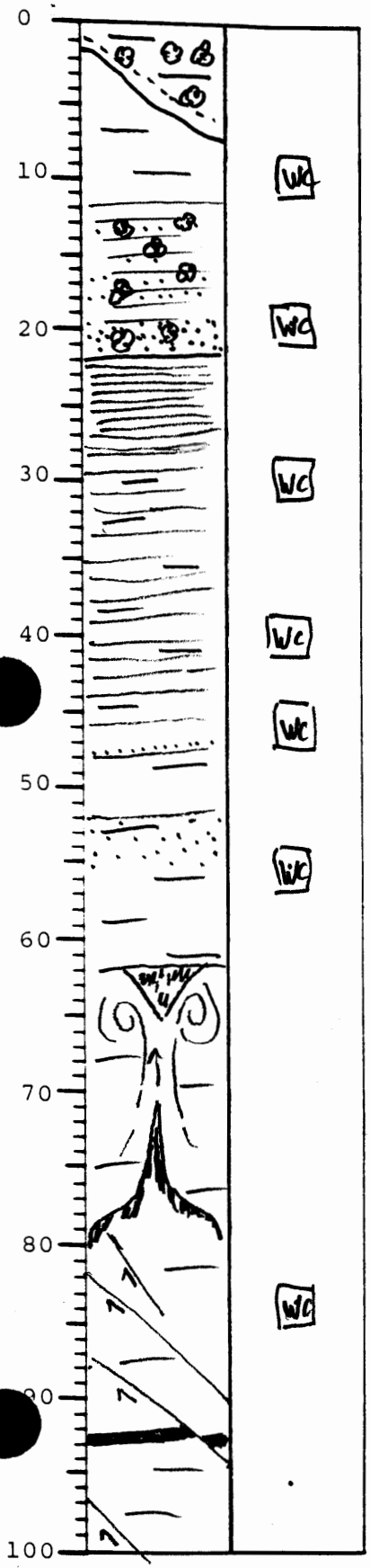
VISUAL CORE DESCRIPTION

F-4-90

Kenyon

Sta. _____ Core No. PC 65

Lithologic Log



Detailed Description

Top of PC lost as TC has about 34 cm foram sand.

0-3+ Moderate yellowish brown 10YR 5/4 foram sandy mud. Contact may be distorted by coring process but clay beneath is horizontal (?) See below

3+ to 4 1.5 cm band of light olive brown 5Y 5/6 to dark yellowish orange oxidised layer.

4 - 22 Banded silty clay with forams. Basal layer (20-22) is coarser. Dominant colour dark yellowish brown 10YR 4/2

22-80? Banded clay. Dominant colour dark yellowish brown 10YR 4/2 Some silty clay. Thinning upwards. Organic bands between forams 22-44

62-80 Lower part of banded clay distorted by coring process. Organic band brought up into triangular intrusion.

80-93 Slightly browner uniform clay but still 10YR 4/2.

93 - Base of core Dark yellowish brown uniform clay 10YR 4/2

80 - Base shear faults

80 - Base Dark, grayish black N2, organic bands

This core is nearly all clay, fairly stiff

TC has very well indurated oxidised crust - thus coring disturbance likely.

VISUAL CORE DESCRIPTION

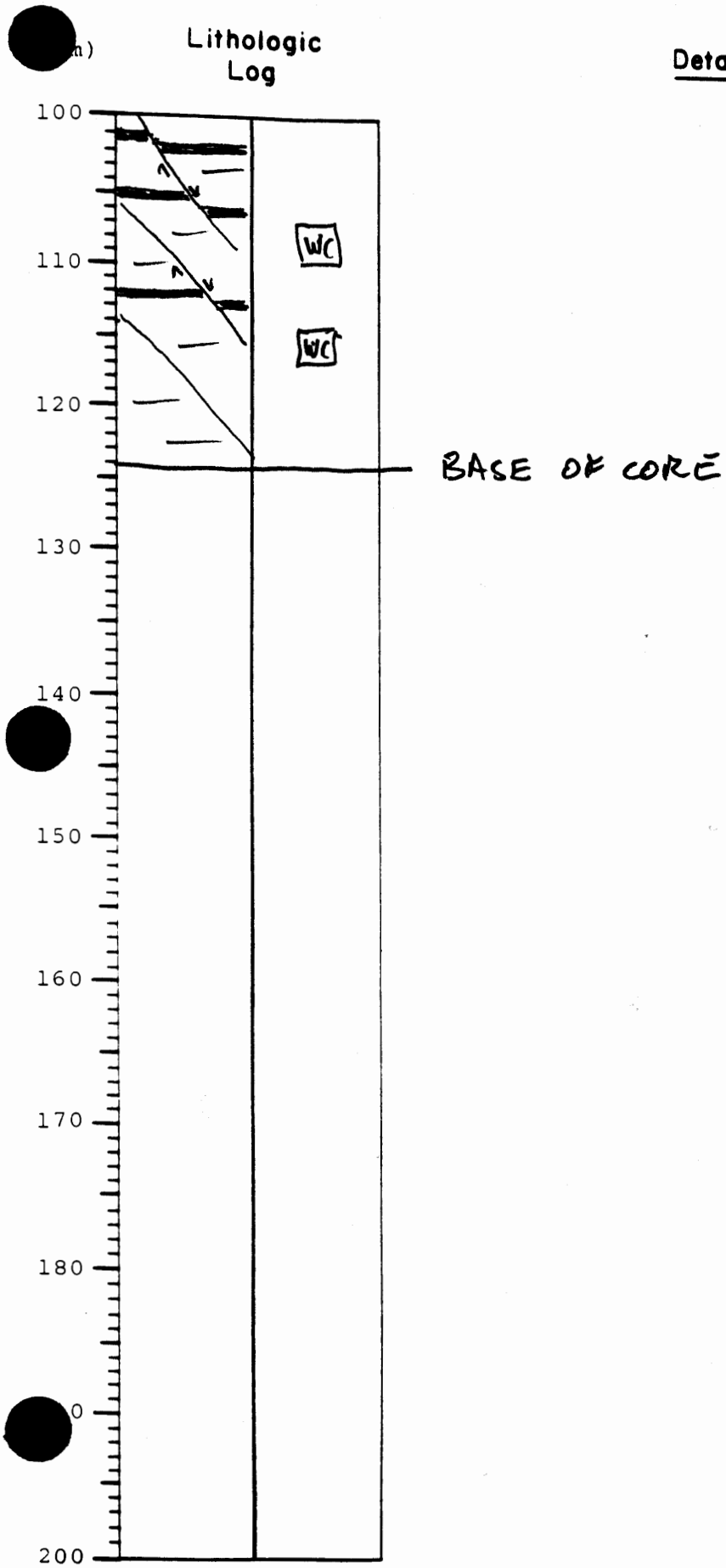
Kenyon

F-4-90

Sta. _____ Core No. PC65

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

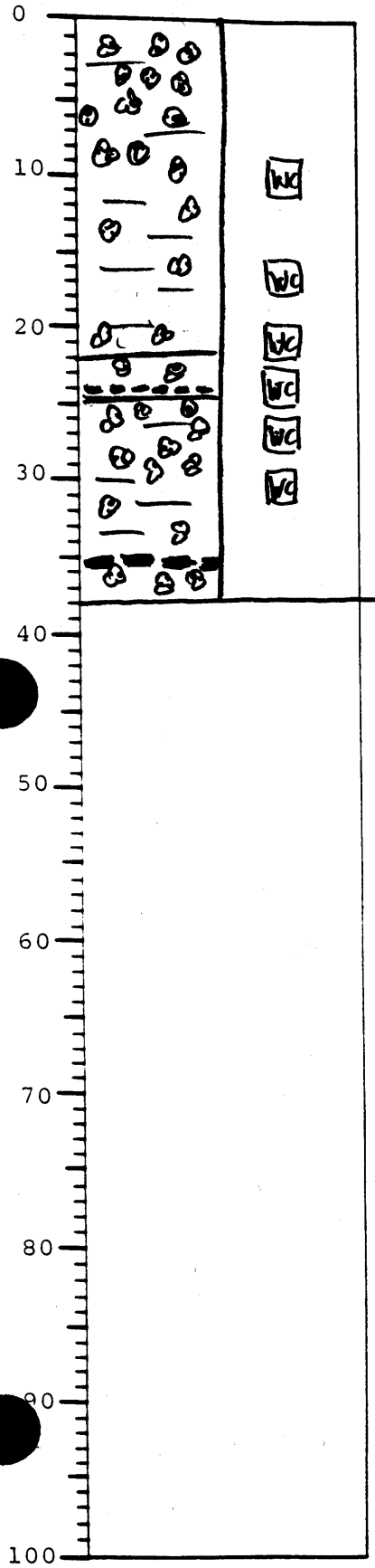
Kenyon

F-4-90

Sta. _____ Core No. TC65

(m)

Lithologic Log



Detailed Description

0 - 22 Moderate yellowish brown foram sand. Mud content increasing downward.

22-24 Light olive brown 5Y 5/6 and dark yellowish orange Fe rich, oxidized zone

24 - 35 Moderate yellowish brown foram sand. Mud content increasing downward.

BASE OF CORE

35 Moderate brown 5YR 4/4 Fe rich indurated crust, broken by coring.

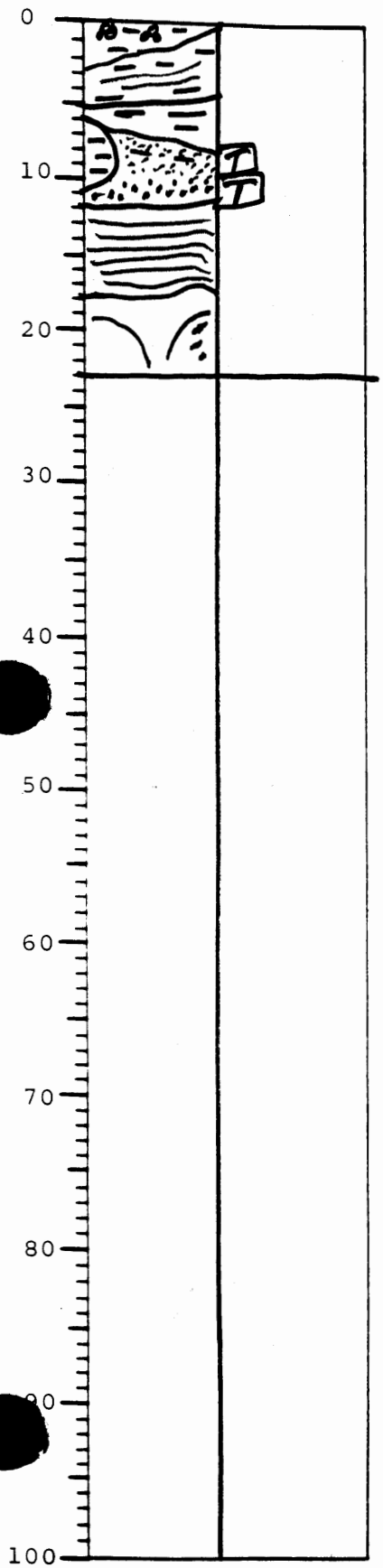
35-38 Light olive brown 5Y 5/6 muddy foram sand

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC64

Lithologic Log



Detailed Description

0-5 complex of yellow mud

0-3 ∞ rich mud - dark " brown (10YR 4/2)

3-5 multi colored clay w/ olive gray to limonitic to brown colored bands

5 - sharp contact at base with olive gray (5Y 4/1) that continues until 24 cm.

end of core

5-11 large olive gray clay clast

7-12 Sand layer base is fine to medium sand & grades upward to vf sand to muddy silt large clast on left is uncertain - it may be pull in or incorporated

12-18 = banded clay - 1mm carbonaceous laminations

18-23 = flow in

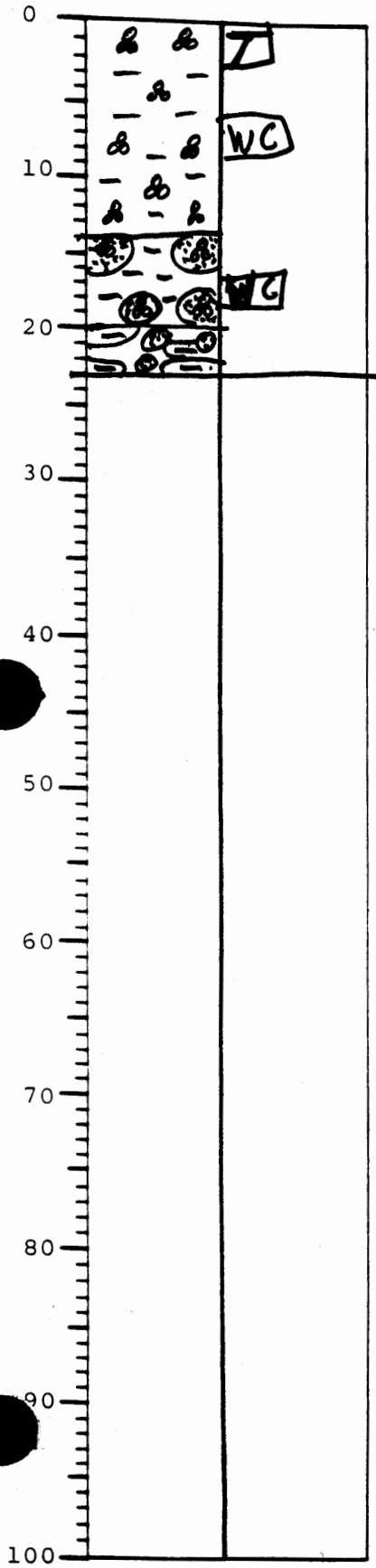
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC 64

(m)

Lithologic Log



Detailed Description

-0-14 So rich mud - dark yellowish brown (10YR 5/4)

-14-20 clay w/ clean So sand filling burrows

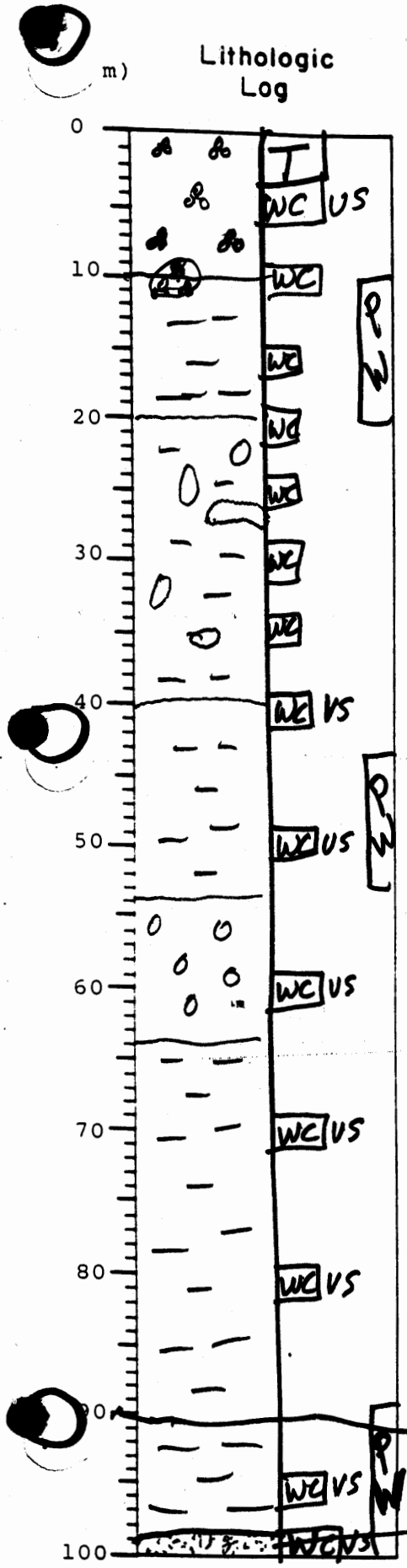
-20-23 indurated yellow clay w/ apparent So filled burrows

End of core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC66



Detailed Description

0–10 moderate yellowish brown clay gradational to

10–21 dark yellowish brown w/ filled burrows

21 slightly indurated

20–40 lt. olive gray clay w/ bioturbation + 1–3 cm burrows grading to olive gray homogeneous clay @ 40 cm – 54 cm

54 – 66 = lt olive gray bioturbated

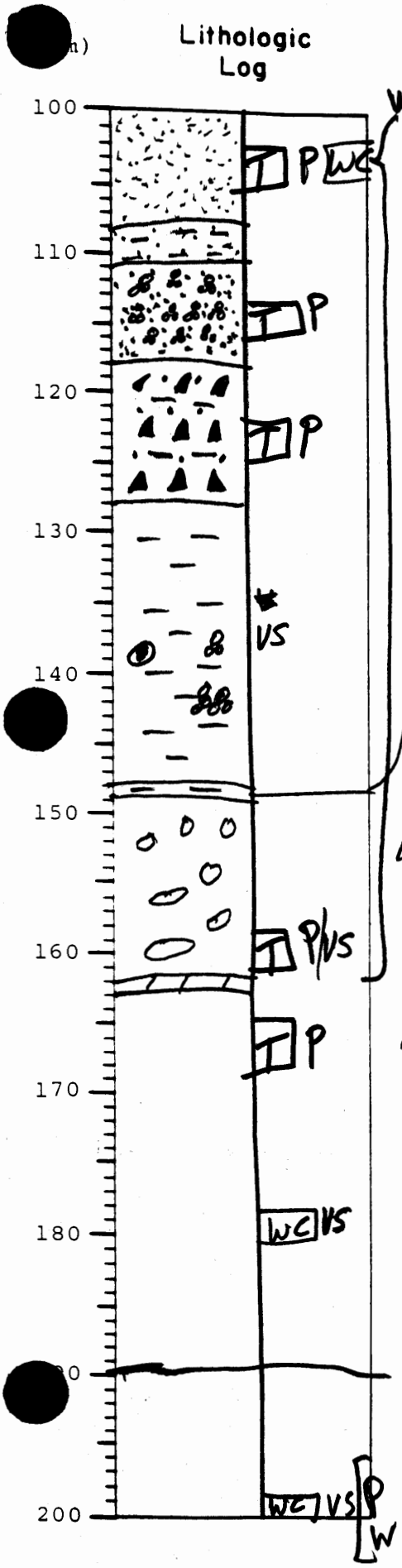
90 cm end of section

sharp upper contact w/ silt bed

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC66



wc/4cm

Detailed Description

99-108 dense silt silviclastic + ⚘

108-112 muddy silt " "

112-118 densilt - less clay more silt - ⚘ sand - carb. sand lt olive gray

118-128 sandy clay - lt olive gray pteropod carb sand

128-147 clay w/ ⚘ filled burrows

148 - green chemical band of color w/ gradual color change to

150-160 highly bioturbated + gradual

162-231 Brownish gray (5YR 4/1) homogeneous Miss(?) mud

End of section

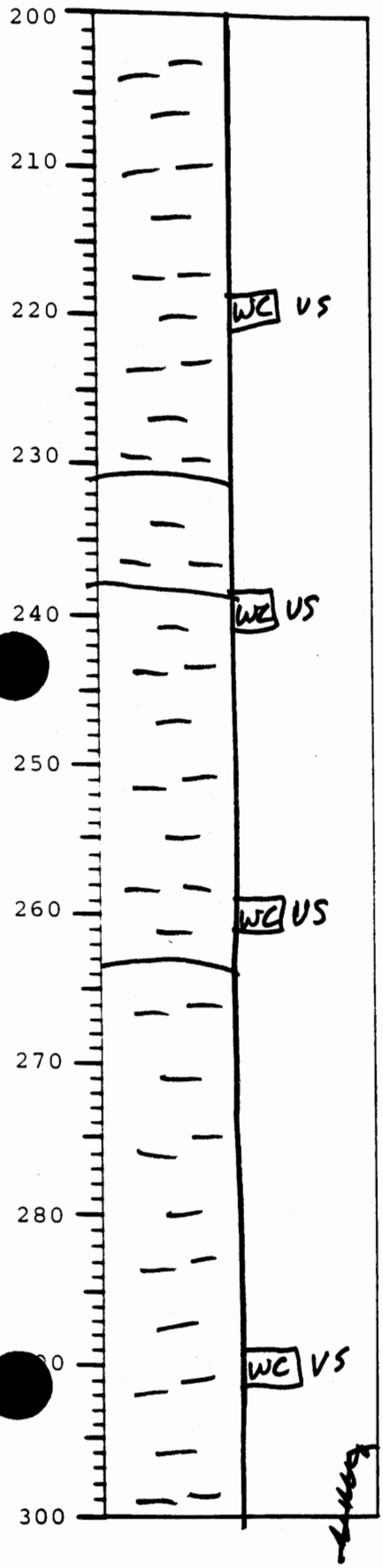
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC66

Lithologic Log

(cm)



Detailed Description

231 - 238 - olive gray clay

238 - 264.5 grayish brown clay

264.5 - 340 - olive gray clay

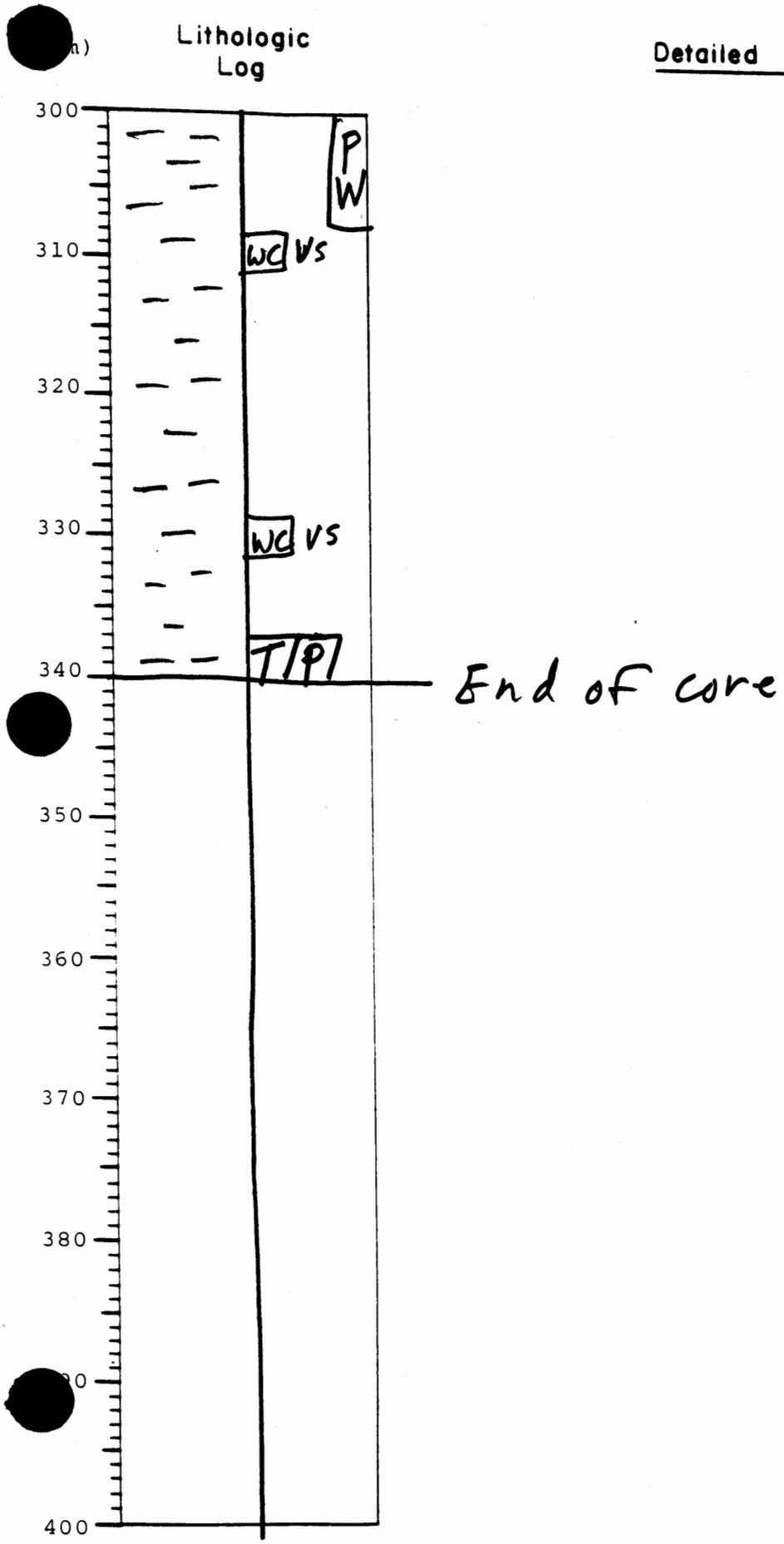
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC 66

Lithologic Log

Detailed Description



VISUAL CORE DESCRIPTION

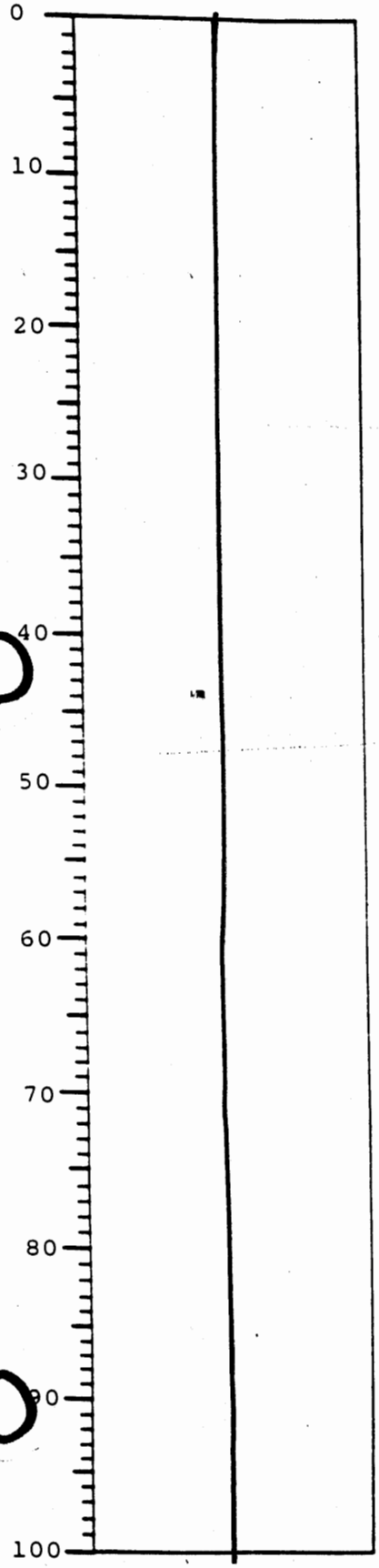
F-4-90

Sta. _____ Core No. TC66

m)

Lithologic Log

Detailed Description



TC is a double hit and PC is good, so TC not described

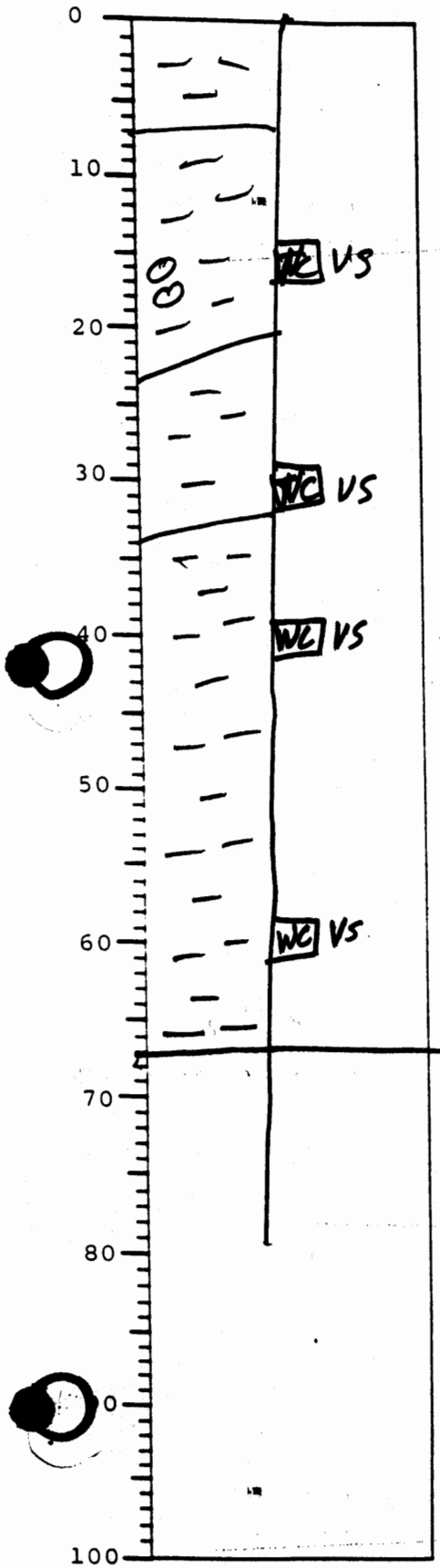
VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. TC 67

67 cm

Lithologic Log



Detailed Description

0-7 Dark Yellowish brown homogeneous clay

7-23 Olive gray w/2 large H gray burrows

23-34 ~~lt~~ olive gray bioturbated clay grading to greenish gray

34 to end homogeneous olive gray clay (5Y 4/1)

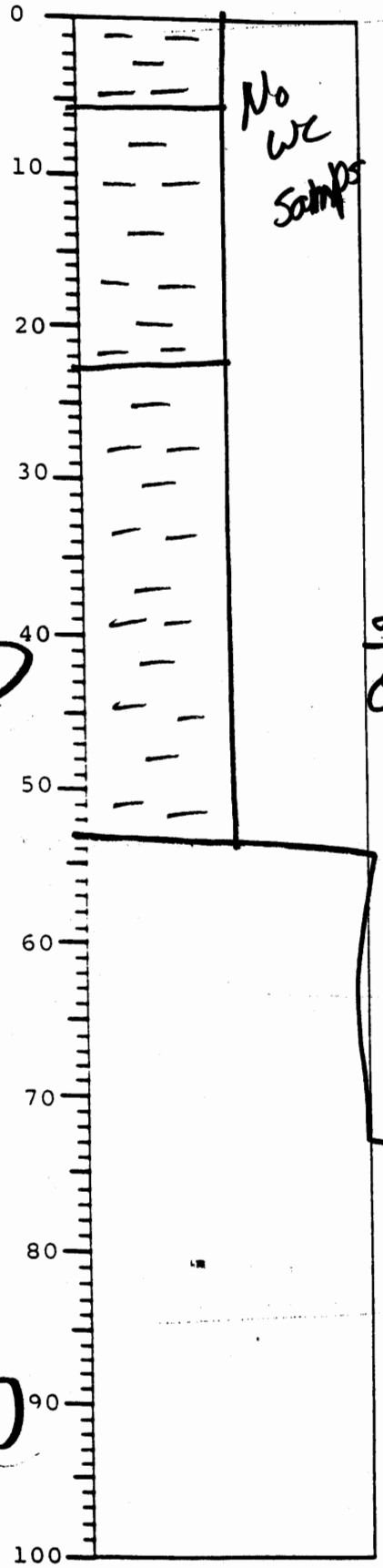
End of Core

VISUAL CORE DESCRIPTION

F-4-90

Sta. _____ Core No. PC67

Lithologic Log



Detailed Description 56 cm

V.I.P. PC Stratigraphy is completely different than TC except first few cm of olive gray clay correlates with bottom of olive gray clay in TC

∴ PC top must be missing at least ≈ 65 cm (how much olive gray clay may be missing is unknown)

+Min. of ≈110 cm penetration ~~between~~ both

0-5 – Top of core has some dark yellow clay smeared around it

olive gray clay (5Y 4/1)

5.5 – 23 cm Grayish brown (5YR 3/2) – Miss. (?) banded clay

23-53 – Olive gray homogeneous clay

End of Core @ 53 cm measured vs 56 cm tube length