

0-10 micaceous siltst. - floodplain?
 10-20 do sli mott
 20-30 do
 30-40 do
 40-50 do - to wood
 50-60 do w/o wood
 60-70 Sst - cse gr ang poorly set - mm gr
 to F

70-80 Sst - f gr ang wel set gty
 80-90 YKT - Sst - fm gr shang wd set - ~~to~~
 mm Phos & shl frags - com Fe-str

90-100 do - w/o shls
 100-110 do - no ind. of r-kick @ 105 or r-kick
 @ 108

110-120 mixed sample
 1) fm ang - shang ^{about} gty sd ~~with~~ w/ ~~shls~~ com phos
 & glauc
 2) mm cse shl frags
 3) calcarenite - gty, phos, glauc in wht
 CO₃ matrix (reworked Bft?)

120/130 mixed sample
 1) cse shld gty sd (pmp gr str) abd glauc (10%) com ^{phos}
 2) v cse, v abd shl frags 20%
 3) calcarenite 10%

130/140 A/A
 1) m - cse shld gty sd - not much gr str - w abd glauc
 (35%) mm phos
 2) do maybe only 10%
 3) do only ±5%

140-150 Sst f-m gr shaly med w/ silt gty v albd
glauc (n 1/2 of it dk grn) - 25% - sbl frags (YKT)
& calc. still present but prob
contains - do for phos (few%)

150-160 Sst f-m shaly med w/ silt gty - 25%
dk glauc (n 1/2 of it dk grn) - grn str

160-170 do on gty prom
shl & calc amount decreased

170-180 Sst v f - f gr ang med w/ silt - marked
less glauc - ± 5% to mica - still
contains but getting less

180-190 Sst v f - f gr ang med w/ silt - few
% glauc
picking up to units of m-use rock
gtys & Fe-str gty - poss getting
into older K unit

190-200 same call - more contain vs ~~to~~ 180-190

200-210 fairly well contain - "dirtier" than above looks
like it may be a silt or sdy silt:
some pinbush & Fe-str gty (m gr)
a couple with siltst frags - look
like a "D"

210-220 bit med gr shaly gty - too contain
to guess on silt - barely a tr of
fssr same tr of rose gty

having to
screen a lot out
of glauc, calc, sbl

220-230 do

230-240 do

- 240/250 contain - 1st app of lt brn sid - more amt of sand
- 250/260 ubiq sid - few "waxy" mott frags of ~~lt "D"~~ "D" type clay ; lt brn sid
- 260/270 flush of glauc - too contain
- 270/280 good change - use equant qtz sid - well set, shnd, ~~with~~ ^{more} Feld
- 280/290 picking up some rdsh brn sid
F spar content increasing
finer^{sd} than 270-280
- 290/300 fin sd
- 310/320 mic stst agg
- 320/330 Sst m. gr and wl set ~~to~~ ^{more} F mic
- ~~310/320~~ .probe from 310/320
- 330/340 A/A some lt brown sid
- ~~340/350~~ ~~to~~ ~~less~~ mod set
- 340/350 Sst m. use gr mod set more F to lt brn sid
- 350/360 do
- 360/370 do several tan stst frags
- 370/380 do
↓
ubiquitous m-use qtz sid more flap
few agg of tan → mott yl ; or
meacous stst
lt brn sid
contain by glauc, calc, shd
makes assignment of depth imposs.
likely dealing w/ alt. set, stst, cl sequence
typical of D
- 440/460 v use sd → gr - com use qtz
- 470 ↓ stst frags include pink ones ; rd mott (esp 480/490)

+ shale section 490-510⁺ shows OK in samples
esp 490-510

530/540 sample shows sd

540/560 picks up red mott sst

560/580 sd

580/600 sh

600/610 new mic sst(?) frags fairly abnd
usnt? carried strong to 650

new spikes?

650-660 ~~mic~~

660-670 mic stly sst frags

~~670-680~~ blah

680-690 rel abnd sid

-F-

710-720 flood of sid

agg of calcarenite - not A/A altho
they do do some ~~also~~ agg of woolly cont mic. sst
agg from (not from fm) appears

720/730 few straight sst agg

730/740 r lig

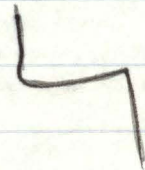
740/790 sst frags cont

800/810 good ^{use} sd → 900

finer up and cont as sd → w/
few scatt sid grains → 960

970/980 sst agg

1000/1020 case sst - agg



BILL
HOFFMAN

BT-T-1-73 - sample summary 9/5/85

Surficials 0-70

micaceous siltstone, slightly mottled, wood
frags 40'-50' with a basal cse gr, ang, poorly
sit SST, mm gr, tr amounts of Feldspar

YORKTOWN 70-130

70-110 - fn gr, shang, wl sit gty sd, Fe-str in
top 10'-20', mm phosphate and shell frags

110-120 - phos and shl content increasing, glauc
coming in as well as some Beaufort type
calcarenite (gt, phos, glauc in ^{white} (O₃ cont)
sample maybe showing top of Bf but probably
is carrying reworked material

120-130 - mixed sandstone, shl frags,
and calcarenite: sd is cse gr, shrd
quartz, with prominent green staining and
with 10% glauc and common phosphate,
shls are v cse and v alid (20%) and are
not the brachiopod shls often seen at
the top of the Beaufort, the calcarenite
is A/A and comprised 10% of the sample

BEAUFORT 130-170

130-140 similar to 120'-130' sample with some exceptions

1) sand is med-cse gr, doesn't have
grn str, glauc content inc to 25-30%
and phosphate content drops to only a
mm amount

2) Shl & calcar 70's are half

140-170 Strong Beaufort aspect

Sst: f-m gr, shaly, mod w/ srt gty w/ 25% glauc (about 1/2 of it dk green) shl frags and calcar still present but content decreases - green stain on gty is prominent in 150-160 sample

comment - Ykt/Bf contact is based on big jump in glauc and drop in phosphate from the 120'-130' to the 130'-140' samples. Beaufort material, however is first seen in 110-120 sample. The calcar is hard to pin down as being from a single zone or bed or if it is streaks through a good bit of the section (20'+) Green staining on gty grains was observed in both units. No Pungo River or Castle Hayne was interpreted from the cuttings

Peedee

170-200

Sst. v-f gr arg mod w/ srt gty, unbedded less glauc vs. above (±5%), to mica. 1/2 units of m. gr rose gty are in the 180'-190' and 190'-200' samples

comment: Peedee call based primarily on big pick. lithically these samples could be some low glauc Bf or unit B. 30' is probably a maximum thickness as appearance of rose gty may mark some

Unit D (it could also be reworked into younger Cretaceous material)

UNIT D 200-710'

200-710 - Difficult section to work because of contamination from above (glauco, shls & calc carry virtually to bottom of hole) and because of generally monotonous nature of the section. Interval can be characterized as a ^{mixed} sand, silt, clay sequence. Some of the lithologic highlights are given below:

240-250 first appearance of lt brown siderite pellets - these carry through most of the section

270-280 - cse gr, shrd, well srt equant gtz sd, mnr feldspar

280-290 - picking up some reddish brown siderite, feldspar content increasing

440-460 - v cse sd → gw, com rose gtz

480-490 - pink and red mottled sltstone frags - carries into mid 500's

600-610 - micaceous sst agg - dark mica! and other mafic mins. - could pass for wthd bsmt - carries to 650'

UNIT E 710'-1100 (TD)

710-720 - flood of anheritic (dk reddish brown) siderite, some of these are replaced fish bones although most are pellets rounded sst agg are common

730-740 - calc lignite frags

800-950 - csl gr sst, mostly gty w/ some feldspar; fines up and continues as good sst to 960

970-1100 - mixed sst / siltst / sh - sst agg varying from loosely cmt to well cmt carry through entire section

logs from a well (this well?) at this same Research Station show lsmt at 1060'. No sign of this in the samples