

**Qj32-27
(174AX BB)**

Core #

1

Start Depth

5'

Stop Depth

10'

73%
recovery

Rec 3.6'

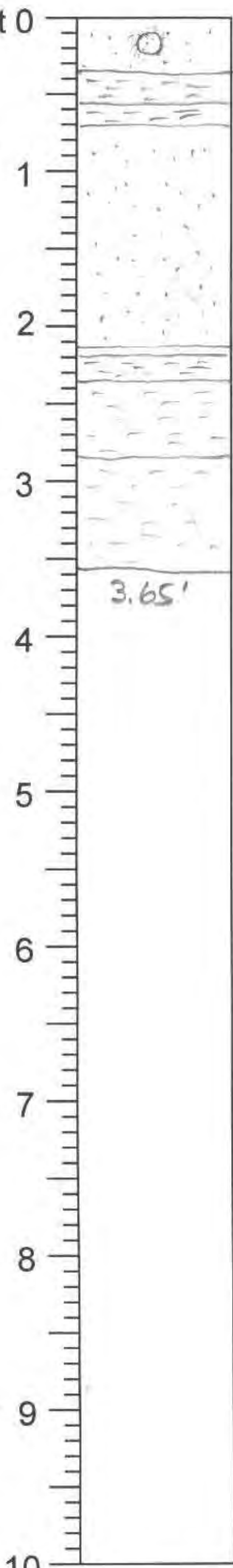
Date

5/12/00

Described by

PPM⁹L

Feet 0



SAND; med; mod srt; sbrnd; uncons; wet;
white tube (blue row?) in ; micaceous

CLAY; silty; soft; brown (10YR 5/3)

CLAY; very soft; greenish-gray (GLEYS 5GY 5/1)

SAND; f-vcrs; poor sort; sbrnd; vly uncons;
wet (watery); light yellowish brown (10YR 6/4)

SAND; A/A but dark brown (7.5YR 3/4)

CLAY; silty (sandy @ top); soft; brown (7.5YR 4/4)

CLAY; sandy, v fine; com mica; plant debris to ~3 mm
size, common, woody? laminated upto 5 mm thick
very dark gray (GLEYS N 3/)

CLAY; silty; rare, finely dispersed plant debris;
laminated upto ~5 mm thick; very dark gray
(GLEYS N 3/) - stickier toward bottom

3.65'

4

5

6

7

8

9

10

**Qj32-27
(174AX BB)**

Core #

2

Start Depth

10

Stop Depth

15

84%
recovery

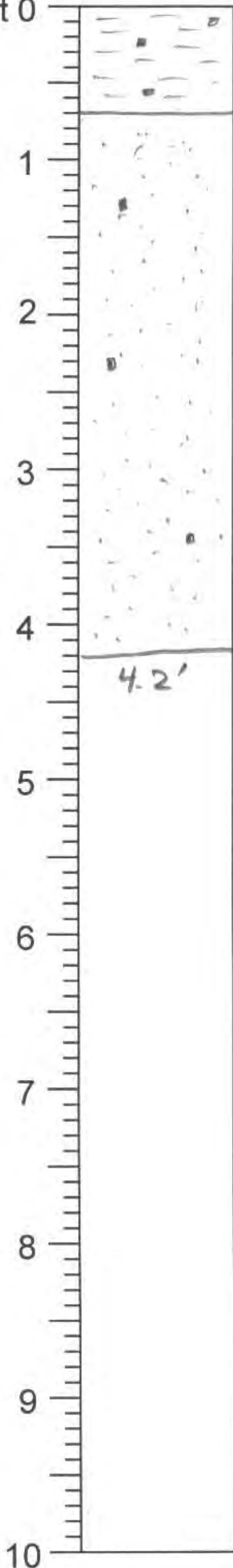
Date

5/12/00

Described by

PPMCL

Feet 0



CLAY, very silty & sandy (vf), common plant frags
up to 3mm; laminated; very dark gray (GLEY N3)
common mica flakes

SAND; vf-f; mod sort; sbnd; vy uncons
& watery; muddy; laminated (planar parallel??)
w/zones w/ dark stringers*, scattered plant
debris, and common to frag. mica

* fine plant debris

**Qj32-27
(174AX BB)**

Core #

3

Start Depth

15'

Stop Depth

20'

72%

Date

5/12/00

Described by

PPM^{CL}

Feet 0



SAND; vf, some f, some silt, finely laminated w/ <1mm laminae of vf plant debris interbedded dark greenish gray (GLEY 5GY 4/1)

CLAY; slightly silty; sticky; very dark gray (GLEY N3/)

SAND; vf, some f, some silt, finely lam; w/ <1mm lams of vf plant debris; dark greenish gray (GLEY 5GY 4/1)

3.6'

**Qj32-27
(174AX BB)**

Core #

4

Start Depth

20' 00

Stop Depth

30' 00

63%

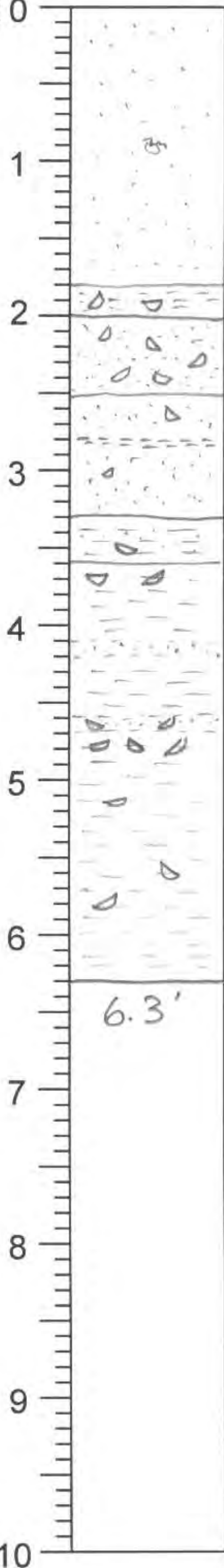
Date

5/12/00

Described by

PPM'L

Feet 0



SAND; vf, some silt & rare f; ^{mod-}well sorted; sbrnd; occasional fine shell frags; dark greenish-gray (GLEY 5GY 4/1); very wet, uncons; lignifies easily

CLAY; sticky, silty; sandy laminae (vf-silt); shells
very dark gray (GLEY N3/1)

SAND; vf-silt; mod-well-sort; sbrnd;
abd shells & shell frags; dark gray (GLEY N4/1)

SAND; vf-f; mod well-sorted; sbrnd; occ.
shells & frags; greenish gray (GLEY 5GY 4/1);
w/ one thin bed of clay @ 2.8'

CLAY; very silty; in some laminae, silt; shell
fragments; dark gray (GLEY N4/1)

CLAY; slightly silty; sticky; ^{plastic}very dark gray
(GLEY N3/1); 2 beds of silty sand
@ 4.1' & 4.6', the latter w/ abd shells

stilly silty sand
→ incl. Mulinia (bivalve, us. lagoonal, good
for AA) and gastropod

6.3'

10

**Qj32-27
(174AX BB)**

Core #

5

Start Depth

30

Stop Depth

40' PD

92%

recovery

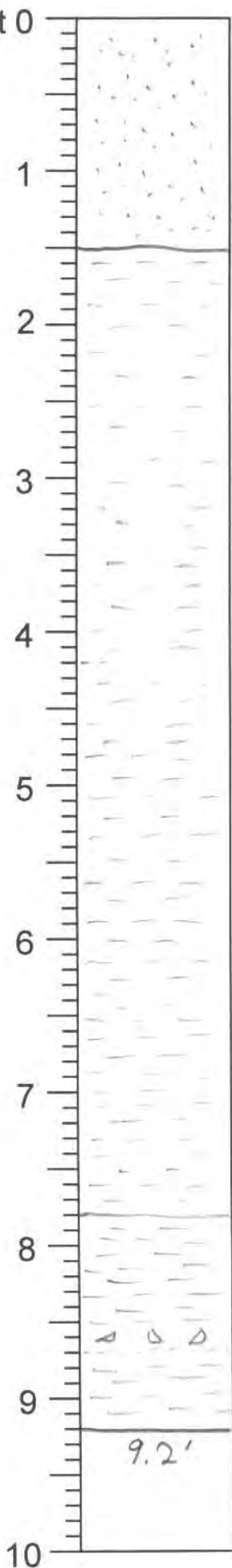
Date

5/12/00

Described by

PPM

Feet 0



SAND; vf-crs; poor srtg; sbrnd-sbang;
Silt-clay matrix so consolid but soft;
occ. shell fragments, sand mostly clear gtz.
some white to yellow gtzite

CLAY; sticky, plastic; rarely silty; mostly
very dark gray (N3/1), some lamination
w/ zones of slightly lighter or slightly
brownier tint (black 5Y2.5/1)
+ very fine dispersed plant fragments and
shell fragment

CLAY; A/A but w/ more abund plant debris
up to 2mm fine debris also more abund,
clear lamination
several shells here - contain stack to outside of core?
} broken up

9.2'

10

**Qj32-27
(174AX BB)**

Core #

6

Start Depth

40

Stop Depth

50'

70%
recovery

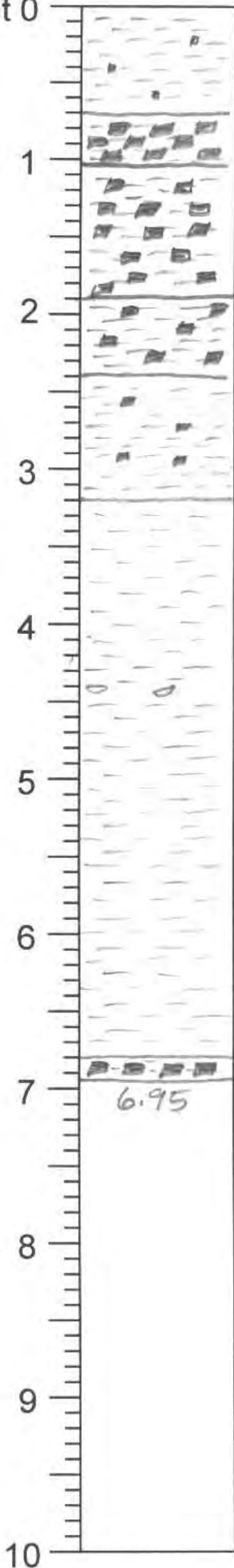
Date

5/12/00

Described by

PPMCL

Feet 0



MUD; sticky/plastic, abd plant debris in lamination

PEAT; clearly laminated plant material (no rooting evident), minor clay; black (5Y2.5/1)

CLAY; very rich in plant debris ($\approx 50\%$ peaty laminae, $\approx 50\%$ clay laminae, incr. peat upward; very dark gray (5Y3/1)

CLAY; abd plant debris; plant rich lams 10-25%, incr. upward - lams 1-2 mm thick dark olive gray (5Y3/2)

CLAY; clearly laminated; sticky/plastic; lamina sets 5-10 mm thick; laminae 1 mm or less, irregular; some plant debris dark gray olive (+/m) (5Y3/2)

CLAY, A/A, but less clearly laminated - core is thicker (- laminae destroyed by compressing core?). Finely dispersed plant debris, some fine shell debris (esp @ -4.4') dark gray olive (5Y3/2), w/ some slightly lighter & darker banding

CLAY; dark, organic rich, almost peaty similar to about 1' level in core

6.95

10

**Qj32-27
(174AX BB)**

Core #

7

Start Depth

50

Stop Depth

57.00

77%
recovery

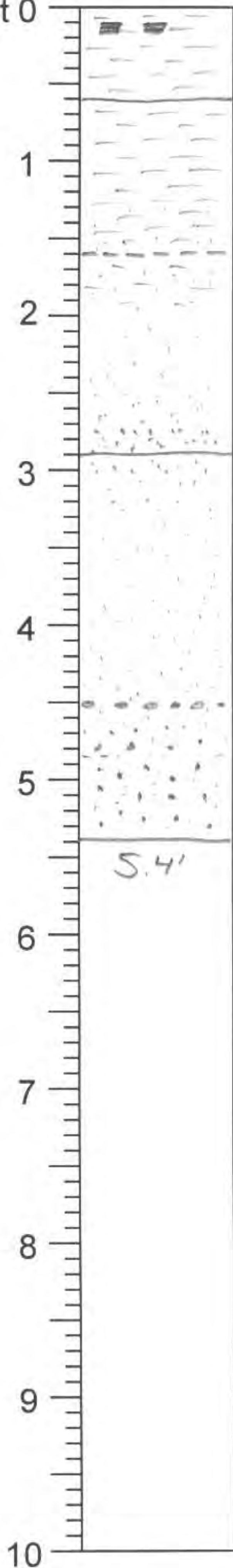
Date

5/13/00

Described by

PPMCL

Feet 0



CLAY; very rich in plant debris up to 7mm, silty; black (5YR 2.5/1) - plant debris appears bedded into rooting; ^{soft} dramatic color change

CLAY; silty; finely dispersed plant debris; dark greenish gray (GLEY 5GY 4/1) w/ slightly darker & lighter banding; sandier/siltier downward; soft

gradational

SAND; v.f, f near bottom; clay matrix (same lith as above); sband, some sbang; mod sort lower to good higher; silty higher up (GLEY 5GY 4/1)

not abrupt transition

SAND; m nr top to CRS or bottom; sband-sbang; mod sort @ top to poor @ bottom; clean, little clay; uncans & porous, with coating of the organics from top of core accumulated on surface giving brownish tint. Cutting into core, color is light greenish gray (GLEY 5GY 7/1) in lower part, some v.crs grains

abd granules @ ~4.5'

TOP BEAVER DAM FM HERE?

SAND; v.crs, some granules; sband-sband, poor sorting; clean; includes organish grains (typical of Beaverdam)

light greenish gray (GLEY 5GY 7/1) uncans.

5.4'

10

**Qj32-27
(174AX BB)**

Core #

8

Start Depth

57₀₀

Stop Depth

60₀₀

53%
recovery

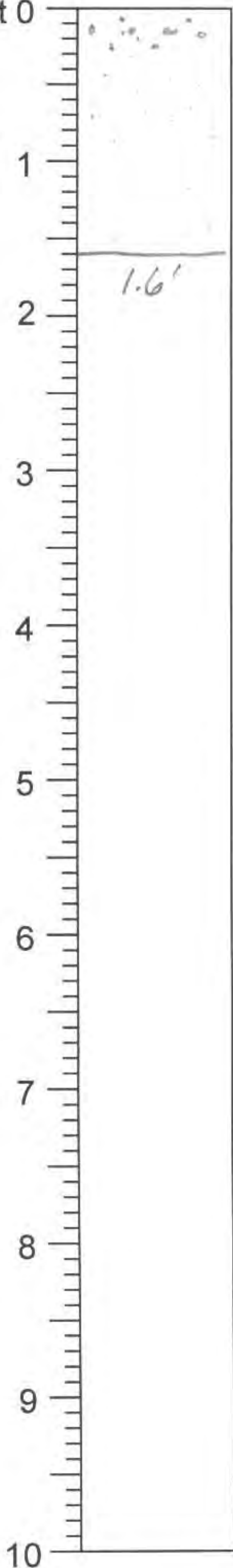
Date

5/13/00

Described by

PPMCL

Feet 0



SAND; crs-vers, granular @ top where
also incl. a few < 10mm pebbles; clean, soft,
unconsolidated but not mushy; grain types incl
qtz, chert, orangish grains, greenish siltstone(?) grains,
small mudclasts, poorly sorted
(BLEY 564711)

**Qj32-27
(174AX BB)**

Core #

9

Start Depth

60

Stop Depth

70

17%
recovery

Date

5/13/00

Described by

PPMCL

Feet 0



SAND; f-crs, v. poorly sorted; f-m w/ abd grains from crs-vcrs nr top plus pebbles to 10mm; scattered crs grains in f-m sand in middle; lower is m-crs w/ common vcrs grains, incl. chert pebbles, orange-stained quartz pebbles, & scattered orange sand grains; unconsolidated

**Qj32-27
(174AX BB)**

Core #

10

Start Depth

70

Stop Depth

72.00

83%
recovery

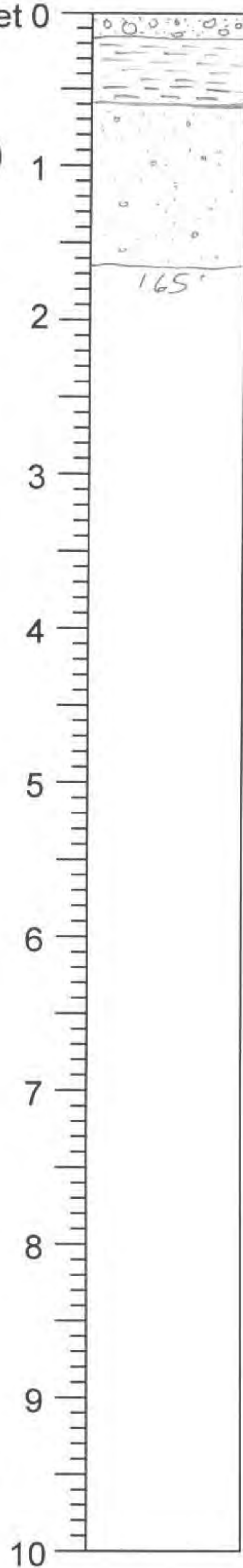
Date

5/13/00

Described by

FDML

Feet 0



SAND; m-crs; mod strg; sbrnd, some shang; incl. chert & quartz pebbles up to ~10 mm; greenish gray (GLY 5GY 5/1)

CLAY; stiff; laminated, w/color bands from olive gray (5Y 5/2) to light olive brown (2.5Y 5/6) sand coating on outside lower part

SAND; f-crs, poor strg, sbrnd-shang; incl. granules (esp in upper part) & v-crs grains; greenish gray (5GY 6/1)

**Qj32-27
(174AX BB)**

Core #

11

Start Depth

72

Stop Depth

75 DD

83%
recovery

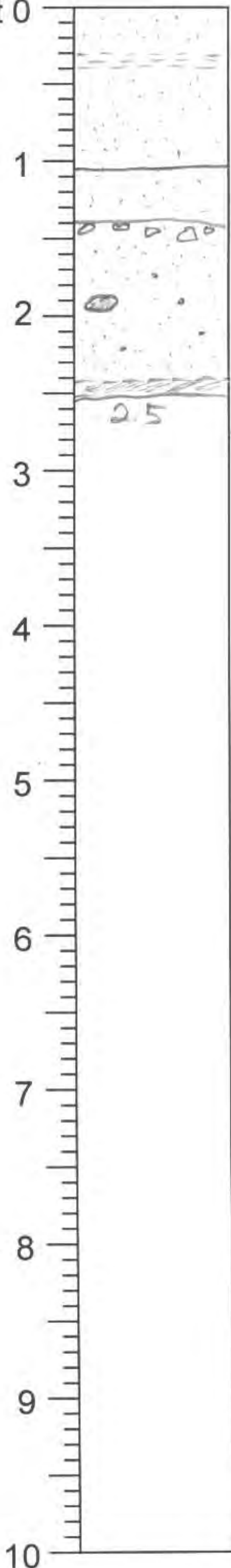
Date

5/13/00

Described by

PPNCL

Feet 0



SAND: med, poor srtg w/ fine & crs grains also, and granules & small pebbles to 5 mm; soft, uncans, easily liquified; small lens (? disrupted by coring) or clast of clay (pale olive SY 6/3); sand is greenish gray (SY 6/1), sbrnd-sbrng (less.)

SAND; muddy (clay-rich clasts? burrowing?); sand is m-granule, poor srtg, sbrnd-sbrng; light greenish gray (SY 7/1) ← more conc. granules/pebbles

SAND; vcrs overall, poor srtg w/ range from f-granule, common orange grains; sbrnd-sbrng; uncans; occ. small pebbles; green indurated siltstone cobbles, one ~20 mm dia, one that took up entire bottom 1" of core

2.5

**Qj32-27
(174AX BB)**

Core #

12

Start Depth

75

Stop Depth

80

0%

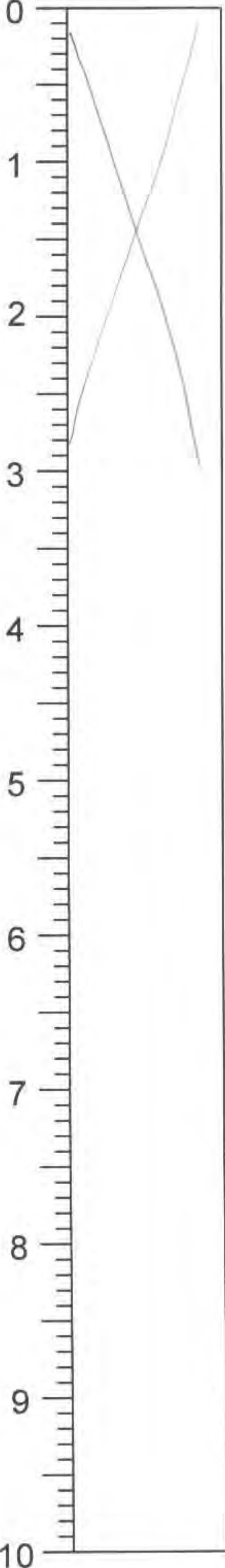
Date

5/13/00

Described by

PPMGL

Feet 0



NO
RECOVERY

**Qj32-27
(174AX BB)**

Core #

13

Start Depth

80

Stop Depth

85

25%
recovery*

* see next
page w/
re-run

Date

5/13/00

Described by

PPM^oL

Feet 0



SAND; crs; poorly sorted w/ med to vcrs
grains; sbrnd-sbrng; soft, uncons, wet/
watery; incl. in lower 0.25' a zone w/
granites & pebbles up to 30 mm (most 8-12);
(56Y 6/1) greenish gray

**Qj32-27
(174AX BB)**

Core #

13A

Start Depth

80*

Stop Depth

85*

* NOTE -
HANG ON TO
BOTTOM
OF
CORE
#13

(8125)
(see ops notes)

Revised, w/
redrill:

43%

Date

5/13/00

Described by

PPMCL

Feet 0



SAND; vcrs - crs, with grains down to fine grained; mod sorting; sbrnd, some rnd & sbrng; 5YR 6/1 gray; incl. pink grains (Kspar?) & orange-stained grains

CLAY; (doesn't appear so at first because of sand caked on outside); sticky, stiff, light olive-brown (2.5Y 5/6)

**Qj32-27
(174AX BB)**

Core #

14

Start Depth

85_{pb}

Stop Depth

87_{pd}

93%
recovered

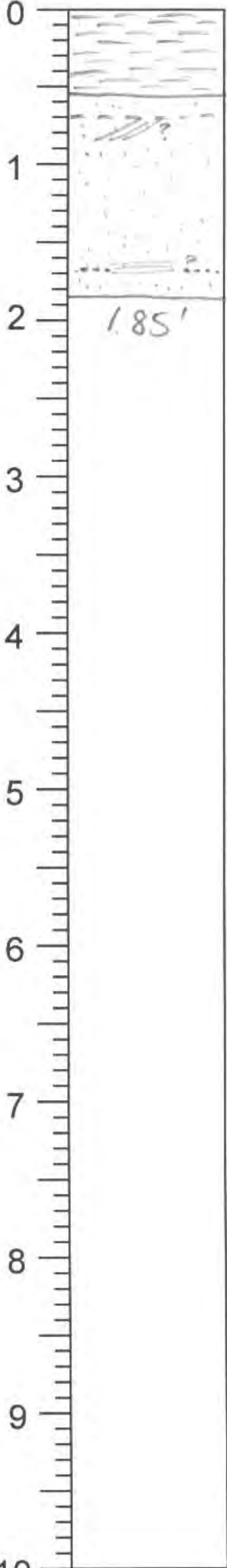
Date

5/14/00

Described by

APM/L

Feet 0



CLAY: irregularly laminated, soft but firm; lams range from gray (GLEYS 5/1) w/ black (GLEYS 2.5/1) streaks & specks to olive brown (2.5Y 4/4) to light yellowish brown (2.5Y 6/4)
← color change - gray to orange/yellow
SAND: crs unlabeled vs + med grains, incl. fine sand & granules also; poor sortg; sbrnd-sbang; poss. k-lams in upper part, planar in lower. Distinct color change nr top, from gray (GLEYS 5/1) above to yellowish brown (10YR 5/8) below, and downward to light yellowish brown (2.5Y 6/3) and near base light gray (2.5Y 7/1)

**Qj32-27
(174AX BB)**

Core #

15

Start Depth

87' _{DB}

Stop Depth

90' _{DB}

87%
recovery

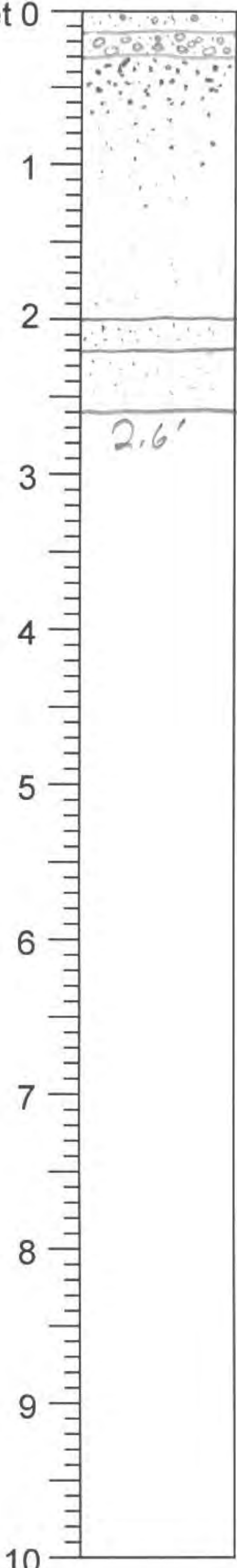
Date

5/14/00

Described by

PPMCL

Feet 0



uncas
SAND; mostly mg-cg, w/ granules; poor sortg; sbnd-sbng
gray (5Y6/1); pink & orange granules plus lt edg stzite
CONGLOMERATE; pebbles, up to 1.5 cm, sandy, sbnd-sbng,
incl. green siltstone, dark chert, white & yellow
qtzite, pink granula, poss mud clast? - uncas
SAND; coarsening upward; dominant grain size @ top is
VCRS, med @ bottom; all poorly sorted, w/ grains down
to fine; grains sbng (esp. larger ones) to sbnd;
apparent inclined bedding in the upper 1' - cut thru
K-bed?; color lightly banded, from brownish yellow
(10YR6/6) to greenish gray (5GY6/1). Uncons
SAND; med, poor sortg w/ cos & fine grained,
somewhat clayey/silty; light greenish gray
(6LEY 5B6/1) - slightly sticky, holds together
SAND; vcg, poor sortg w/ med-granule range, sbnd-sbng,
uncas, lignified; greenish gray (6LEY 5G6/1)

10

**Qj32-27
(174AX BB)**

Core #

16

Start Depth

90

Stop Depth

91

200%
recovery

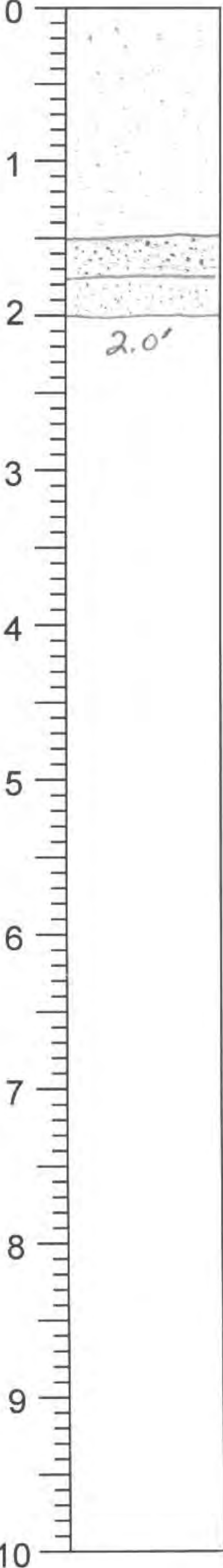
Date

5/14/00

Described by

PPMCL

Feet 0



SAND; fg - vcrs - granule mixture, poorly sorted; skang - sbrnd; orange & pinkish grains, chert, quartz, gtz. Some darks (chevies?), gray (GLEY N6/)

SAND; fg - vcrs - granule, poorly sorted, skang - sbrnd; abo fine plant debris gives dark color (dark gray N4/) uncons. but firmer than aboe

SAND; fg - vcrs, scattered vcrs & granules, poorly sorted, skang - sbrnd; distinctly parallel laminated (planar?), same lamina with darker concentrations of plant debris; color from white (GLEY N8/) to light gray (GLEY N7/) plus dark streaks (dark gray N4/)

2.0'

**Qj32-27
(174AX BB)**

Core #

17

Start Depth

91

Stop Depth

94.00

67%
recovered

Date

5/14/00

Described by

PPMCL

Feet 0



SAND; f-m, occ vcrs greenish; common small angular black grains (plant debris/charcoal?) and green, v.s. well rounded, grains (glauconite?); mod sort; sbrnd, some sbrng; gray (6.5Y 6/1); uncons, watery

SAND; f-crs, uncons but slightly muddy/silty holding it together; olive yellow (2.5Y 6/6), pr sorting

SAND; f-crs; mod sorted, occ. small black grains (prob charcoal or other orgc); gray (6.5Y 6/1)

SAND; crs., poorly sorted, from granule-size to med, poor sorting, sbrnd-sbrng, uncons but holds together; as light as light greenish-gray (5.5Y 7/1); esp on top

10

**Qj32-27
(174AX BB)**

Core #

18

Start Depth

94

Stop Depth

97.00

92%
recovery

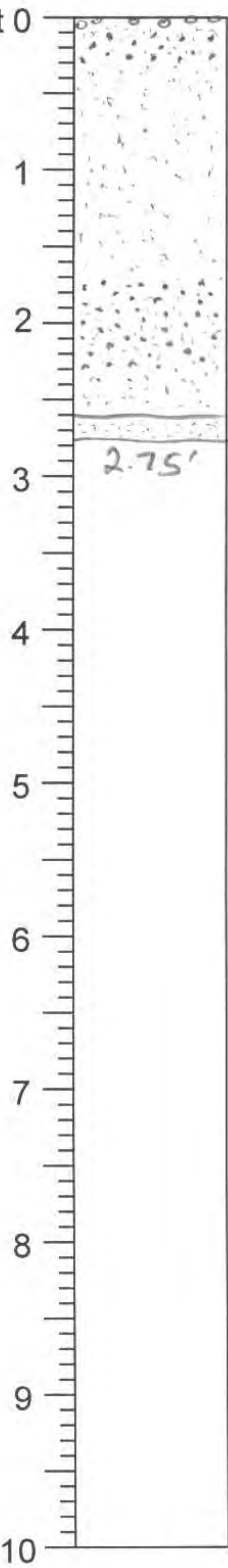
Date

5/14/00

Described by

PPMCL

Feet 0



← pebbles-junk?

SAND; dominantly crs, poorly sorted w/vers-fine throughout, plus zones nr top (0-0.4) and lower (1.7-2.3) w/abd-cm granules; grains subang-subang (some ang, esp. larger) - grains incl. gtz, white to yellow gtaite, some orange-stained gtz, feldspar (pinkish ic-spar, white plag?), chert (c), small black grains (r-beanies?) [no glauc] uncors, watery when extruded gray (5Y 6/1)

some larger more ang grains, too

dominantly SAND, med-crs, mod sorted; grains subang & rounded [better sorted & rounded than above] distinctly laminated white (6.5Y N 8/1) to gray (6.5Y N 6/1), with strings of black (N 2.5/1) brown shell(?) material on side

2.75'

10

**Qj32-27
(174AX BB)**

Core #

19

Start Depth

97

Stop Depth

100'

23%

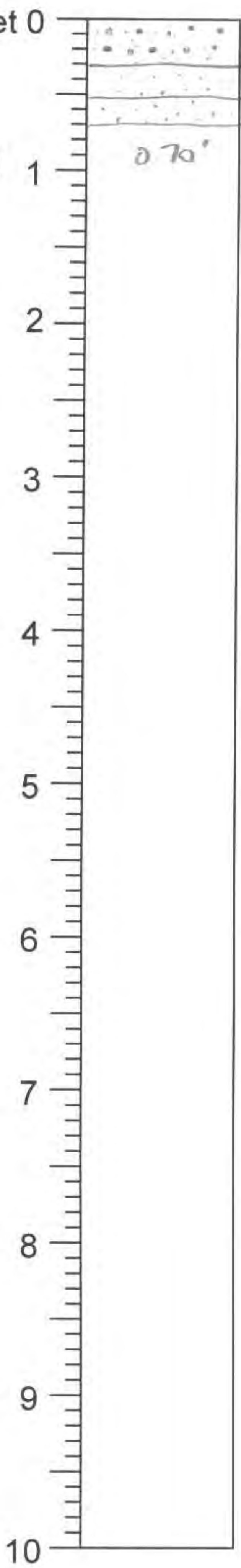
Date

5/14/00

Described by

PPML

Feet 0



SAND; vcrs avg (??), but very poorly sorted w/ med - small pebble size fragments - smaller ones sbrnd - sbang; larger sbang - ang; chert is vry common, lots of gtz/gtzite; uncons, wat greenish gray (SGY6/1)

SAND; crs, w/ med - granule sizes mixed in; poor grty, grains sbrnd - sbang; uncons, watery greenish gray (SGY6/1)

SAND; poorly sorted watery mush; med gr to granule size; sbrnd to sbang; may be a mixture of disrupted material from core, not at all cohesive Greenish gray (SGY6/1)

**Qj32-27
(174AX BB)**

Core #

20

Start Depth

100

Stop Depth

105' 012

80%
recovery

Date

5/14/00

Described by

PPML

Feet 0



SAND; CRS, w/ ~10% granules plus med sand & small (<10 mm) pebbles; poorly sorted; sbang(-ang) larger grains, smaller grains incl. well-rnd & sbnd & some sbang. Grains incl. gtz (the smaller, better ruded grains), gtzite (a) chert (c), K-spar (?), Light gray (GLEY N7/) uncons/watery. Some dark plant(?) debris

↕ transition, not abrupt

SAND; med-crs; mod sorted; rnd-sbang; mostly clear gtz; poss faint incl. lamination ?? uncons but not as watery / liquified as above granule layer @ base; dark plant (?) debris light gray (GLEY N7/)

SAND; f-med; mod sorted; more cohesive than above due to silt content sbang, some sbnd; laminated w/ banded grey shades up to 5 mm thick; colors from light gray (GLEY N7/) to gray (GLEY N5/) with ^{dark} plant debris

10

**Qj32-27
(174AX BB)**

Core #

21

Start Depth

105'

Stop Depth

110' →

74%
recovery

Date

5/15/00

Described by

PPMCL

Feet 0



SAND; crs-vers, poorly sorted w/ common medium to granule sizes; mostly sbrnd-sbang, common rnd too; ^{clear} quartz is most finer grain - coarse fraction is qtz, gtzite, chert, some pink grains (K spec?), some orange-stained qtz; unconsolidated

(some light rusty look to outer part of core. iron stain? drilling mud/pipe coloration?)

color light gray (10YR 7/1) to gray (10YR 6/1) [slightly more granules @ top]

SAND; med-f, silty, some crs, mod sorted; sbrnd (2 rnd)-sbang; slightly more consolidated than above due to silt content. Light brownish gray (2.5Y 6/2) w/ some darker lamination (plant chumage?)

**Qj32-27
(174AX BB)**

Core #

22

Start Depth

110'

Stop Depth

115'

86%

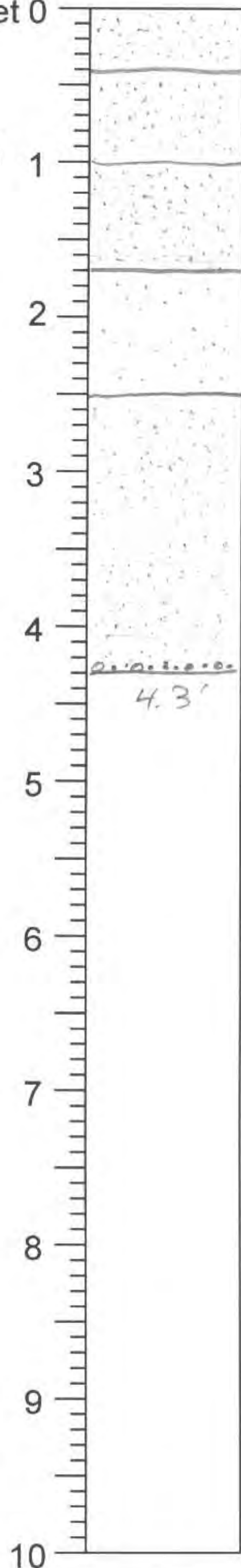
Date

5/15/00

Described by

PPM'L

Feet 0



SAND; med-f, mod sorted, sbrnd-sbang (some rnd) light yellowish-brown (2.5Y 6/4)

SAND; med-crs, mod sorted, sbrnd (some rnd) - to sbang, mostly gtz; slight bit of clay (?) giving color (?) light olive brown (2.5Y 5/4)

SAND; crs-vcrs, mod sorted (some med-gr), sbang-sbrnd; laminated, w/ color bands ranging from greenish gray (6.5Y 5G/6/1) to pinkish gray (7.5YR 6/2) to light olive brown; uncons (2.5Y 5/4)

SAND; fines upward from crs (w/ some vcrs) to med-crs; muddier, higher up, too; sbang-sbrnd light olive brown (2.5Y 5/4), uncons (less watery higher)

SAND; mostly crs, mixed med & vcrs, mod-poor srtg, sbang-sbrnd; color bands from light olive brown (2.5Y 5/4) to grayish brown (2.5Y 5/2) to dark grayish brown (2.5Y 4/2) to olive brown (2.5Y 4/3) to light yellowish brown (2.5Y 6/4). Pebble & granule zone @ base

4.3'

**Qj32-27
(174AX BB)**

Core #

23

Start Depth

115'

Stop Depth

120'

68%
recovery

Date

5/15/80

Described by

PPMCL

Feet 0



SAND; med, mod, ^(-well)sorted, w/ granules & pebbles up to 15 mm @ base; clean, unconsolidated, grains sbrnd-rnd, some shang (looks beachy) light gray (2.5 Y 7/1); Pebbles incl chert, quartzite

? base Beaverdam

CLAY; firm bit plastic, finely laminated, olive gray (5Y 4/2), w/ 2 thin sand laminae (@ 2.6 & 2.7') (sand as below interval) - clay contains dark plant fragments/lignite, one piece > 15 mm long

SAND; med-crs, mod-poor srtg, some plant debris giving darker color (gray 5Y 5/1); sbrnd-shang & some rnd

3.4'

**Qj32-27
(174AX BB)**

Core #

24

Start Depth

120

Stop Depth

125

8% recovery

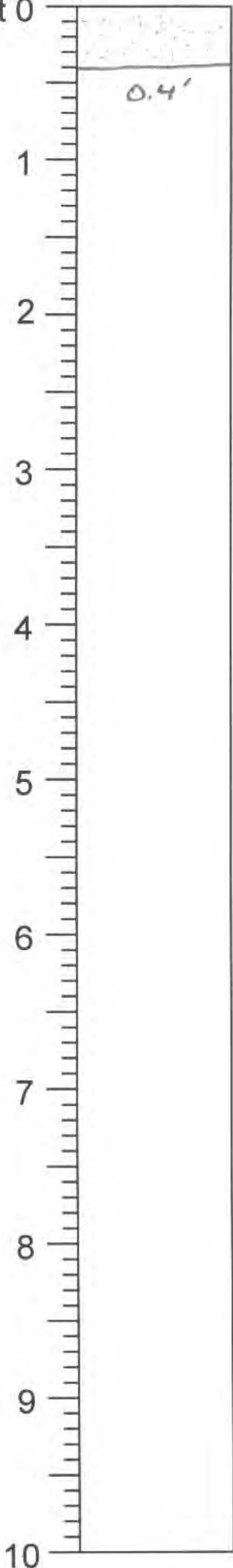
Date

5/15/00

Described by

PPM'L

Feet 0



SAND; f-med, some crs, poorly sorted, silty (?) & somewhat consolidated. [Evers caked on outside but not in place?]; common dark grains (heavier?) and silt/clay give dark greenish grey (SGY 4/1) Hard, cemented zone in bottom few millimeters.

NOTE: Bottom of this core apparently slid out - appears to be (in part) in top of next core

**Qj32-27
(174AX BB)**

Core #

25

Start Depth

125

Stop Depth

130

118%
recovery

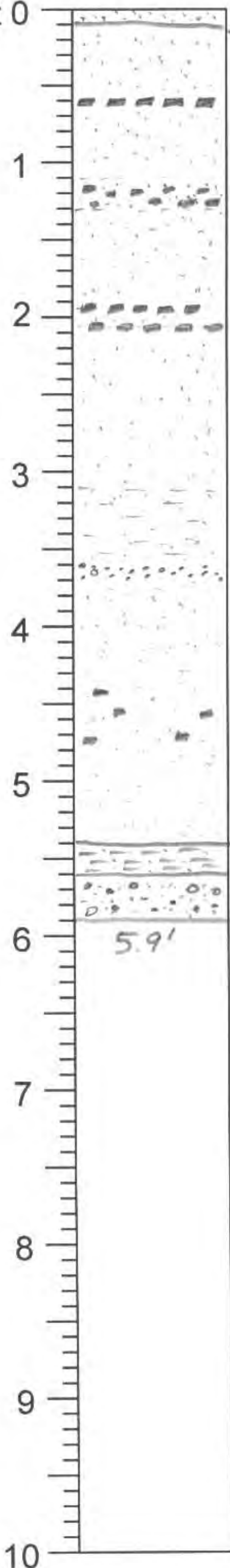
Date

5/15/00

Described by

PPMCL

Feet 0



SAND; cemented (hangs on bottom of above core)
(did not freeze), poorly sorted fg-cg, silty/clay too?

SAND; med-crs, some granules & vrs grains,
muddy (w/clay & silt), poorly sorted; several
zones of woody plant fragments (⊙ ⊙); granules
incl. gtz, quartz, chert; some zones notably clayey
zone w/ scattered plant debris

color gray (GLEYN4/1) & dark gray
(GLEYN5/1), w/ block (N2.5/1) lignite

lignite
lignite

sticky
mud rich sand (silt, some clay)

granules

scattered plant fragments

(GLEYN5/2)

SILT; muddy, w/ some vrs & f sand; olive-gray &
SAND w/ abund granules & common small pebbles,
also large woody plant fragments - overall
tint gray (GLEYN4/1)

5.9'

10

**Qj32-27
(174AX BB)**

Core #

26

Start Depth

130

Stop Depth

135

66%

Date

Described by

Feet 0



SAND; med, mod sort, sbrnd, very wet & liquefied, silt/clay chunt or two in. t

SAND; med, very poorly sorted w/ grain sizes from silt to granule size, muddy; sbrng-sbrnd; grains include abd gte & gtzite, chert, & few pink (K-spar?) & orange crust-covered gte); unconsolidated & wet but slightly sticky; dark gray SY 4/1

SAND; as above, but much richer in very coarse grains & granules, less consolidated

**Qj32-27
(174AX BB)**

Core #

27

Start Depth

135

Stop Depth

140

82%

Date

5/15/00

Described by

PPMCL

Feet 0



SAND; mg, muddy & cohesive (fragment), laminated w/ dark laminae

SAND; mg-cg w/ scattered veg - granule size, generally coarser @ bottom and near top; sbang - sbrnd; no clear bedding, clean, unconsolidated & watery. Color gray (5Y5/1)
gtz, gtzite, chert - moderate Srtg

pow shell fragment @ 1.05' -
sampled, in whirlpak bag

4.1'

10

**Qj32-27
(174AX BB)**

Core #

28

Start Depth

140

Stop Depth

145

94%

Date

5/15/00

Described by

PPMCL

Feet 0



SAND; med-crs, some vcrs, poor srtg, sbang -
sbrnd, some rnd; water, unconsolidated
Gray (5Y 5/1)

SAND; fines from granule-rich crs sand @
base to silty med-crs sand in middle to
silty/clayey v.f.-med sand @ top; increasingly
sticky (partly consolidated as muddier
muddier = dark gray (5Y 4/1); sandier = gray (5Y 5/1)

SAND; med-crs, clean, mod sorted,
sbrnd w/ rnd & sbang; unconsolidated
mostly gtz, some small dark grains, rare
small pink grains. slightly silty / less
clean in upper 0.4'. Gray (5Y 6/1)
(some compaction @ ~ 3')

10

**Qj32-27
(174AX BB)**

Core #

29

Start Depth

145

Stop Depth

150'

69%

Date

5/15/00

Described by

PPMCL

Feet 0



SAND; med-crs, some vcrs & granules, mod sort; sbrnd, some sbrng & rnd; some dk-grains, some lignite pieces & plant debris; dark grains incl. chert (beachy?) unconsolidated, watery

CLAY; thin bed (or just clast?); soft, light olive gray (5Y 6/2)

SAND, as @ top core

CLAY; thin bed, firmer, light gray (5Y 7/1)

SAND, f-med, mod sortg - dark gray (5Y 4/1) and more cohesive due to clay/silt - grains sbrnd

3.45

**Qj32-27
(174AX BB)**

Core #

30

Start Depth

150

Stop Depth

155'

28%

Date

5/15/00

Described by

PPMCL

Feet 0



SAND; f(-med), mod(-well) sorted, (40 bit of clay?)
sbrnd-sbang; silty, fairly cohesive; some of
black plant debris, mud clasts & granules @ 0.15';
mud-filled burrows in lower part (same color
as lith below); dark gray (5Y4/1)
CONTACT - BURROWED
SAND; f(-med), mod(-well) sorting, sbrnd-sbang;
Silty, fairly cohesive but less than above (less
Sticky - less mud?); olive gray (5Y4/2)
color change relative to above burrowed contact
SAND, same as top sand burrowed interval

**Qj32-27
(174AX BB)**

Core #

31

Start Depth

155

Stop Depth

160

96%

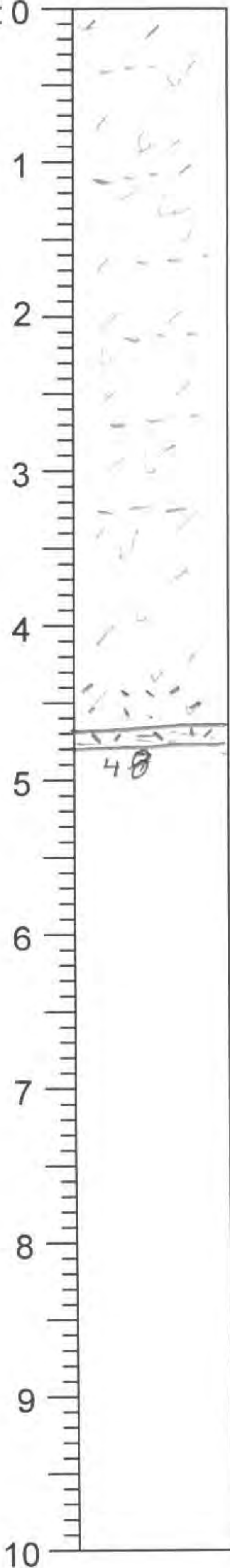
Date

5/16/00

Described by

RWR

Feet 0



SILT, sdy, vF, to SAND; vF, silty, silty
to mod cly; bioturbated throughout
clay in disrupted lam and as patches
defining burrows - very uniform throughout;
(laminated sd + silt + cly)
below 2.7' some f sand;
below 4.35' few org frag. (4.7)
dk gry Gley N4/

as above with ~~abd~~ organic fragments (woody)
(01)

**Qj32-27
(174AX BB)**

Core #

32

Start Depth

160

Stop Depth

170

62%

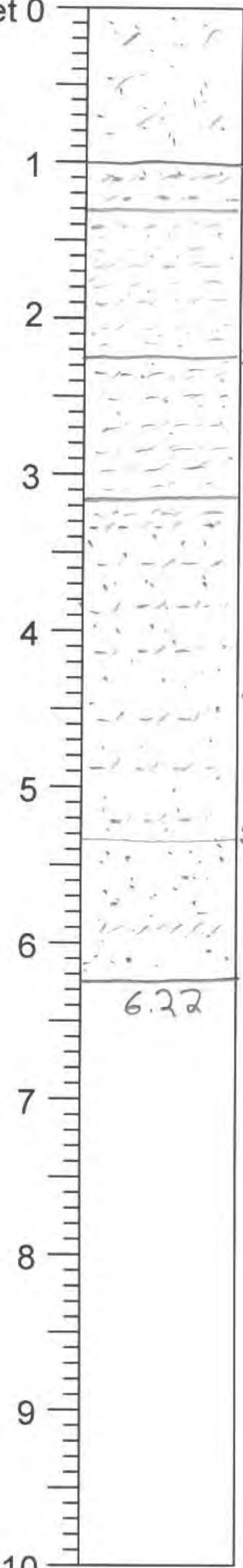
Date

5/16/00

Described by

KWR

Feet 0



SAND, v f-f, slty; Gley 5Y 4/1 (dk greenish gray) (1.0)

1.0 as above w/ some SILT, cly, lam (0.3)

1.3 SAND, v f; slty inter lam w/ SILT, cly lam are 0.05' to 0.01' thick, color as above

2.25 SAND, v f, slty; inter lam w/ SILT, cly; color as above interspersed w/ Gley N 3/ very dark gray

3.15 SAND, v f-f; few ^{rare} m-crs grains; inter lam w/ SILT, cly; more sand than above SILT lam b/c few b/l 3.8' GLEY 5Y 4/1 (dk greenish gray)

4.45

5.35 SAND, f; mod to slily slty, few-rare crs grains; GLEY 5G Y 5/1 Greenish gray v slty zone (5.9-6.0)

6.22

10

**Qj32-27
(174AX BB)**

Core #

33

Start Depth *shp etc*

170

Stop Depth

175

76%

Date

5/16/00

Described by

KWR

Feet 0



SAND, f, some vf, silty slty
GLEY N5/ gray, (1.3)
lam org frag @ 0.2'

1.3 gradational etc

SAND, f, some m, silty slty,
color as above, (0.7) few crs

2.0 gradational etc

SAND, f, some m-c, few gran (0.5)
color as above

shp etc

2.7 SAND as above w/ SILT, cly lam;
GLEY N4/ dark gray (0.2)

SAND, f-m, some c, few-some gran,
color N5/ gray

3.65 SAND: vf-f, GLEY N4/ dark gray (0.1)
3.75

3.8 SAND as 2.7-3.65 (.05)

**Qj32-27
(174AX BB)**

Core #

34

Start Depth

175

Stop Depth

176.5

Date

5/16/00

Described by

KWR

Feet 0



SAND f; abd vs-c; gley N6 / gray;
(1.1) few ^{some} gran; dk gry ^{zone} M4 / @ 1.3-1.32'
(stty)

1.1 SAND; f-vf; ^{few} some m-c; cobras above (0.4)

10

Qj32-27
(174AX BB)

Core #

35

Start Depth

176.5

Stop Depth

180

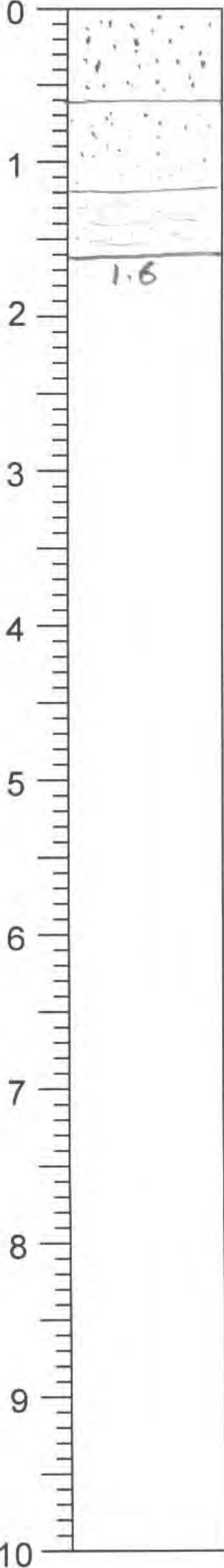
Date

5/16/00

Described by

KWR

Feet 0



SAND: f-c gran cn. Gley N/6 gray
some vf (0.6) wash?
SAND: f some vf+m; color as above;
Gley N/6 gray, (0.6)
as above w/ hm lam (0.4)

**Qj32-27
(174AX BB)**

Core #

36

Start Depth

180

Stop Depth

185

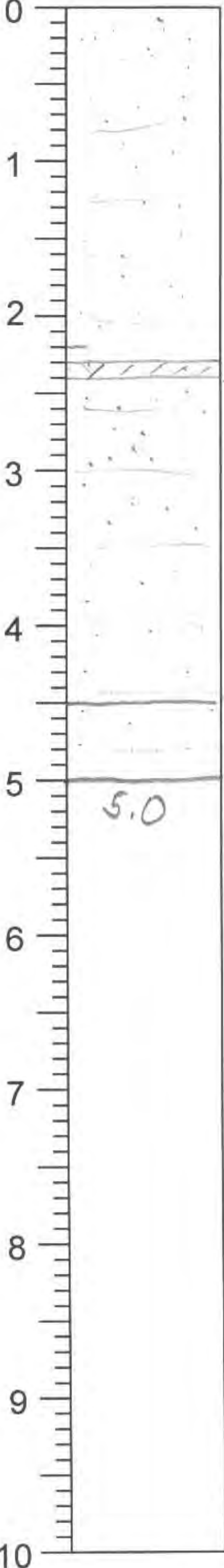
Date

5/16/00

Described by

KWR

Feet 0



SAND, vf-f, w sorted, hm lam cn;
GLEY N6/ gray, (2.3)

few-cn m-c 2.2-2.3

2.4 SILT, sdy, vf, org rich, GLEY N/4 dark gray, (0.1)

SAND; vf-f, w sorted; hm lam cn,
GLE N6/ gray (2.1)

as above, w/ common-abd m-c (0.5)

5.0

10

**Qj32-27
(174AX BB)**

Core #

37

Start Depth

185

Stop Depth

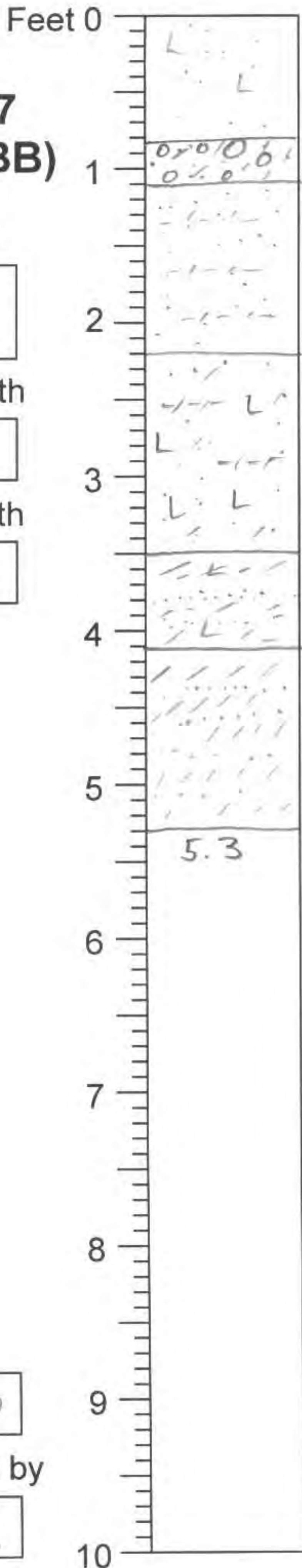
190

Date

5/16/00

Described by

KWR



SAND; vf-f; some m. light greenish gray; mod w sorted' 56Y 7/1, few large pieces lignite (v. soupy) (0.85) partly redrill?

0.85 SAND, vf-f silty, silty clay, v dk gray N2.5/; w/ abd sm' pbl (qtz, cht) (2.5)

SAND, vf-f; silty, v dk gray N2.5/; few lam SILT, clay (1.1)

2.2 SAND; vf-f; silty; color as above. pieces of lignite & org. frag. cn; few^{50°} lam SILT, clay; few crs-gran; (1.3)

3.5 SILT, clay; greenish gray 56Y 6/1; w/ lam of sand; vf-f; Lignite cn (6.6)

4.1 some-abd stiff
SILT; clay; greenish gray 56Y 6/1; w/ f-some lam of sand; vf-f; no lignite (1.2) few crs-gran; stiff

5.3

**Qj32-27
(174AX BB)**

Core #

38

Start Depth

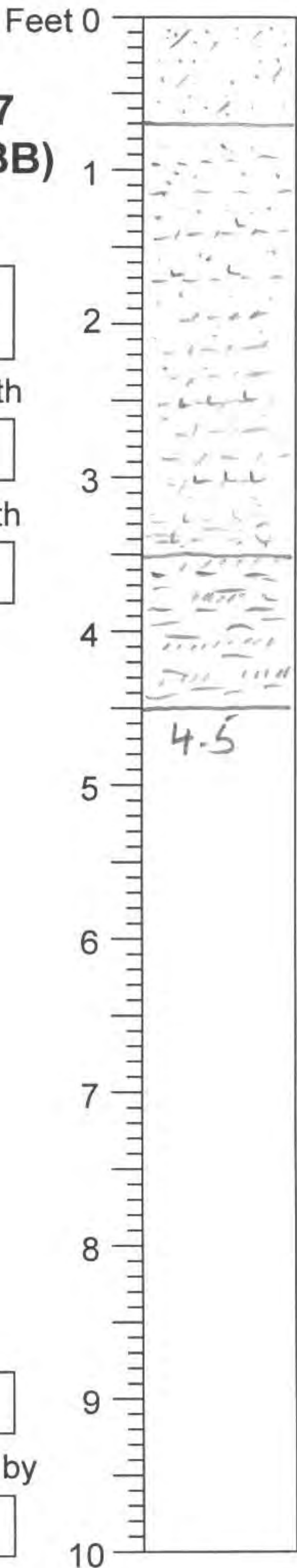
190

Stop Depth

195

Date

Described by



SAND, vf to SILT, sdy, vf
dk grnsh gry 5GY 4/1: some-few
lignite (0.7) few lam clay SILT (0.7)

SAND, vf to SILT; sdy, vf inter lam
w/ CLAY, silty grnsh gry 5GY 6/1
lam f lignite frag cn;
clay lam b/c thicker + more cn
dn (2.8)

3.5 shp etc
CLAY, silty, dk grnsh gry 5GY 4/1
w/ v thin lam, silt (1.0) v compact +
stiff + lenses

4.5

4.5

**Qj32-27
(174AX BB)**

Core #

39

Start Depth

195

Stop Depth

205

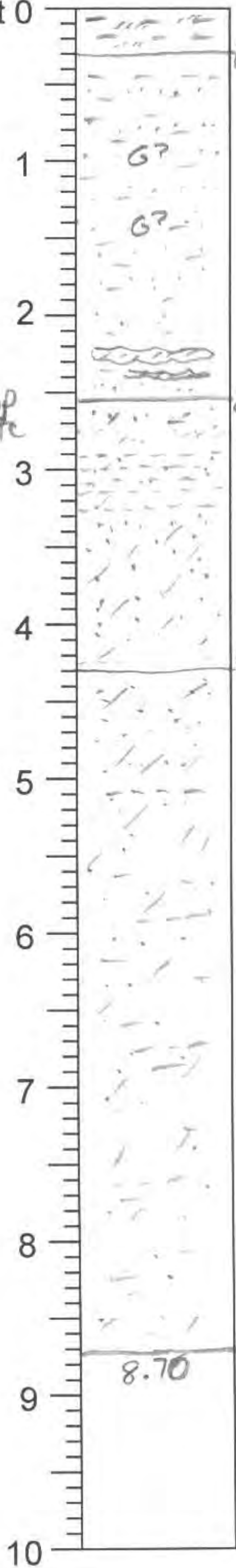
Date

5/16/00

Described by

RWR

Feet 0



CLAY silty dk grnsh gray 5GY 4/1;
0.3 w/ lenses' silt (0.3)
as above, with lam of sand; v f; w/ hm
or glauconite,
2.25-2.4 Clay (silty) filled burrows? almost
horiz. olive yellow 5Y 6/6
bottom 2.48-2.55 silty clay lt grnsh gray
(2.25) 5GY 7/1
2.55
SAND, f-vf, silty, dk grnsh gray
5GY 4/1, w/ thin lam CLAY, silty,
from 2.9-3.3 stiff
4.3 (.75)
SAND, vf-f, silty, intermixed w/ CLAY
silty → some lam + some burrow whole
interval prob. bioturbated
color ranges from dk grnsh gray 5GY 4/1
to lt grnsh gray 5GY 7/1
8.70 8.7

Qj32-27
(174AX BB)

Core #

40

Start Depth

205

Stop Depth

210

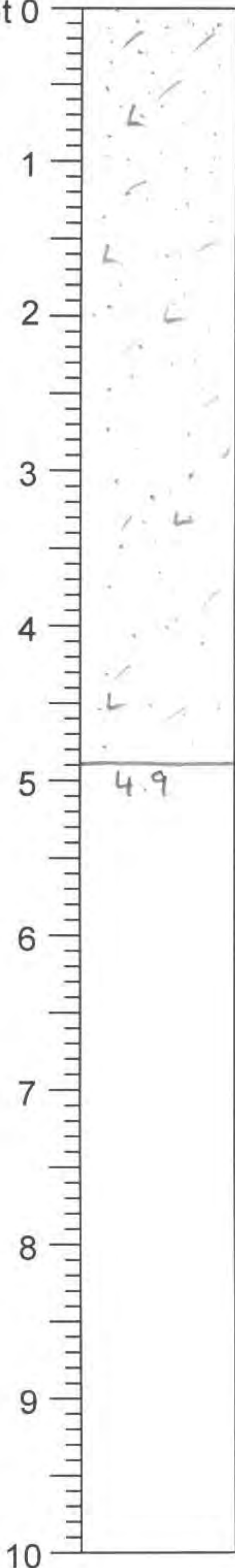
Date

5/17/00

Described by

RWR

Feet 0



SAND; v.f. silty; some fine;
cn frag' of org. (lignite) ranging
from crs sand size to .01' diameter
uniform; abd h.m.; possibly
bioturb; dk greenish gray
56Y4)

Feet 0

**Qj32-27
(174AX BB)**

Core #

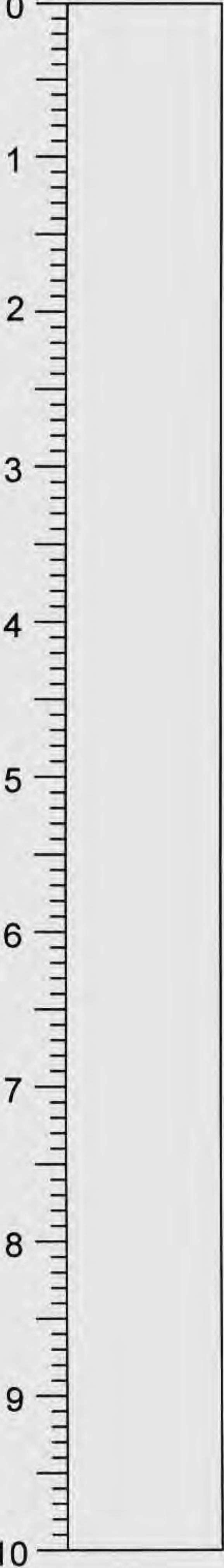
41

Start Depth

210

Stop Depth

215



no recovery plus interval

% recovery

*Log ...
cut ...*

Date

5/19

Described by

SB JV

10

**Qj32-27
(174AX BB)**

Core #

42

Start Depth

215

Stop Depth

220

START 12:50
OUT 1:15

core length =
4.9

% recovery = 98

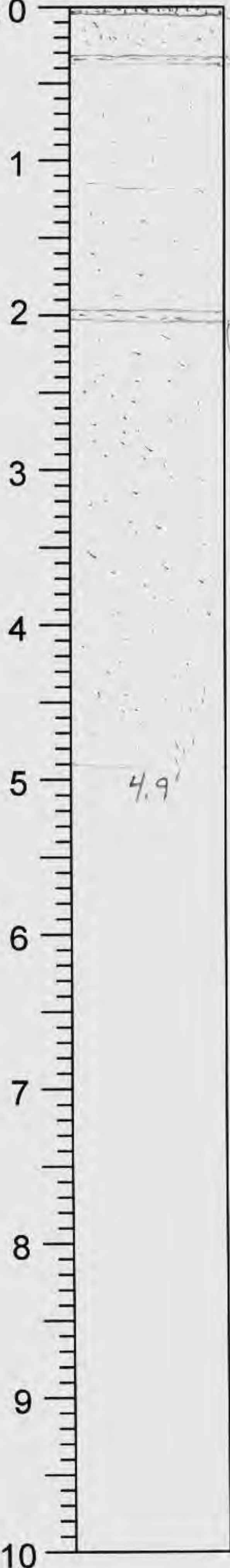
Date

5/19

Described by

SB, JU

Feet 0



top 0.06' = indurated sandstone (m 2 colors)
 not Cal cement. Possible indurated clay/sand Prominent
 vertical burrow penetrates the cap
 burrow = 1mm diameter
 Colors = dk olive gray 5Y 3/2
 lt yellowish brown 2.5 Y 6/3 above
 clay stringer, thin mm layers directly below
 the clay grayish brown 2.5 Y 5/2
 SND = 2.5 Y 4/1 (dk gray) fine to v. f. sd w/ fr. ohm
 clay 2.5 Y 5/2 subangular
 in addition to the stringers of ohm, there is a trace
 ohm throughout, fr. s. t. g.
 very thin hard to see layers of clay intermittently
 sd is massive below 2.2'. Only a few clay +
 ohm layers above 2.2'

4.9

10

**Qj32-27
(174AX BB)**

Core #

43

Start Depth

220

Stop Depth

229

Feet 0

1

2

3

4

5

6

7

8

9

10

Snd, pr sorted, med to v.f. grained.
some lignite, increasing w/ depth.
545/1, (gray)

(large pebbles are in the drilling mud, coating the core)

massive, grains sub angular

snd, fine to v.f., w/ lignitic laminae
254 4/1 (dk. gray), massive.

v. fr sand → silt, lignitic, sl clayey, sl micaceous
254 25/1 (black) massive

gradational contact to lignitic sand

Sd, coarse to fine grained, trace ohm throughout, trace lignite intermittently;
(fr. sorting) massive, grains sub-ang.

254 4/1 (dk. gray)

med to fine sand, slightly more lignite than above
massive (fr sorting)

254 6/1 (gray)

coarse to fine sand, less lignitic than above
254 4/2 (dk grayish brown; massive, fair sorting)

7.15'

START: 2:16
UP : 2:50

gradational contact w/ lower sand

Core Length = 7.15'
recovery = 79%

Date

5/19

Described by

SB, JU

**Qj32-27
(174AX BB)**

Core #

44

Start Depth

229

Stop Depth

234

START: 3:18
UP: 3:27

Core Length = 2.9'
Core Recovery = 58%

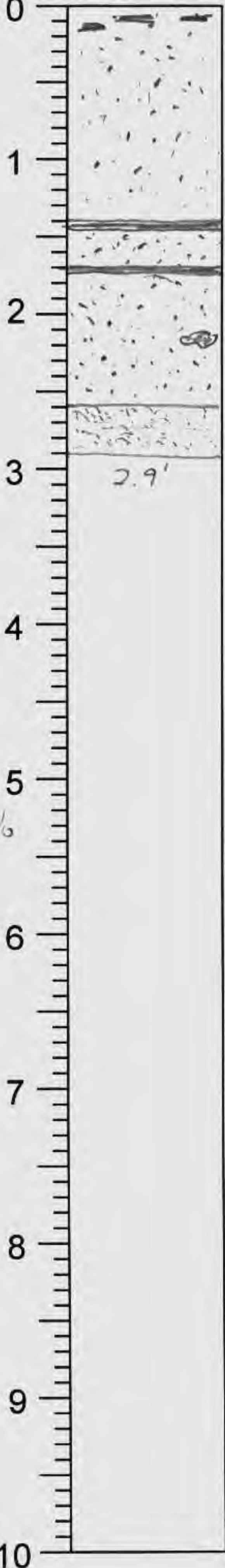
Date

5/19

Described by

SB, JU

Feet 0



SAND, v. coarse to fine gr., some lignite at top 0.05';
pr sorting; includes some clay or chert clasts, approx. .02'
2.54 5/2 (grayish brown) sub. ang grains,
massive
no fossils seen

lignite layer, very organic; no sand
SAND 0.03' thick (see SAND above)
lignite layer 0.02' thick

SAND (see above)
lignite fragment, 0.03' diameter

SAND, md to fine grained, stained darker by
disseminated lignite particles
2.54 4/1 (dk. gray)

10

**Qj32-27
(174AX BB)**

Core #

45

Start Depth

234

Stop Depth

240

START: 4:09 PM

IP: 440

CORE LENGTH = 2.8'

CORE RECOV. = 46.6%

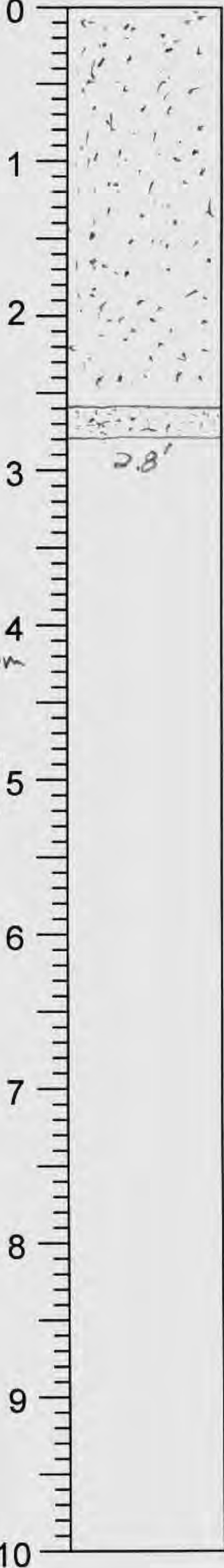
Date

5/19

Described by

SU, SB

Feet 0



SAND, v. coarse to fine pr. sorting;
2.5 & 5/1 (gray); sub-angular, very few
lithic fragments, a few pebbles of 0.01' or
0.02' diameter.

SAND, coarse to fine, same as above, just slightly
finer grained 2.5 & 5/1 (gray),

**Qj32-27
(174AX BB)**

Core #

46

Start Depth

240

Stop Depth

245

DRILL START: 10:15
" UP 10:40

CORE = 2'
RECOV = 40%

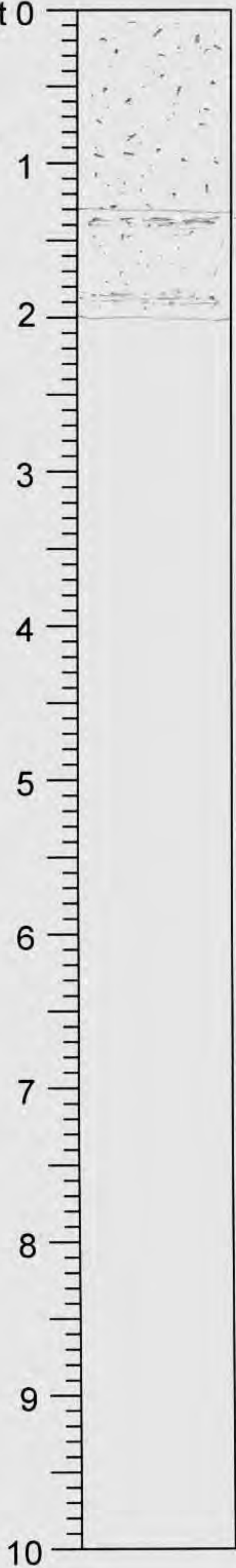
Date

5/20

Described by

SB, JU

Feet 0



0.0 - 1.3 SAND, coarse to med, sub angular, massive; <1% f/z granules (\approx 2 mm diam)
10YR 5/1 (gray) fr sorting

1.3 - 2.0 SAND, coarse to med, fr sorting, layers of ohm at 1.3' and 1.75', giving the section a darker color.
10YR 4/1 (dk gray)

10

**Qj32-27
(174AX BB)**

Core #

47

Start Depth

245

Stop Depth

250

START = 11:15 am
UP = 11:40 am
CORE = 0.1'
2% recovery

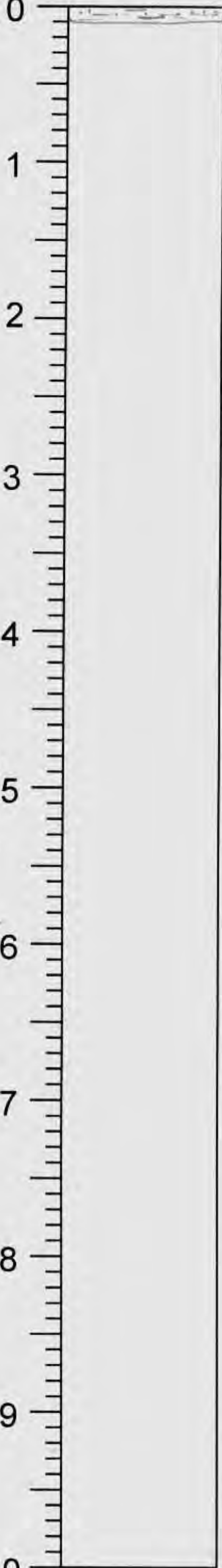
Date

5/10

Described by

SB, JA

Feet 0



No recovery from this interval
except for a 0.1' section, described
here:

SAND, clayey, mid to coarse, 3%
ohm, trace lignite,
color = 2.5Y 3/1 ; very dark gray

**Qj32-27
(174AX BB)**

Core #

48

Start Depth

250

Stop Depth

253.5

START = 11:50

UP = 12:20

Core = 2.6

RECOVERY = 74.2%

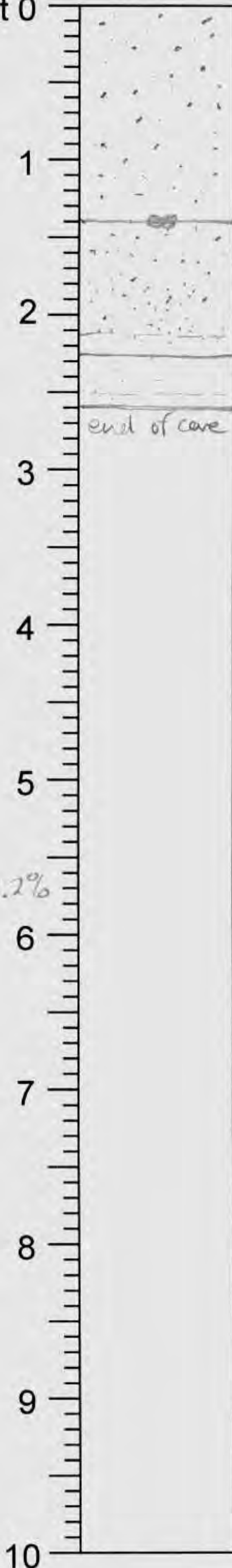
Date

5/20

Described by

SB, JU

Feet 0



0.0 → 1.4 SAND, coarse to med, massive,
trace lignite, trace oolite, dk gray
2.54 4/1

1.4 → 2.25 SAND, medium, marked at change by
small (5mm diam) clay clast color = same as
directly above, tr lignite, tr oolite, sev oolite
laminae @ 2.15'

2.25 → 2.6 SAND, fine grained, one oolite laminae
at 2.52' shell fragment at 2.32. trace lignite
color = same as above (dark gray)

Note: clear coarsening upwards over
this interval, stepping from fine → med →
coarse sand.

10

Feet 0

NO RECOVERY this section

**Qj32-27
(174AX BB)**

Core #

49

Start Depth

253.5

Stop Depth

260.0

1

2

3

4

5

6

7

8

9

10

DRILLING START:
12:45

CORE UP: 1:45

Core = 0'

RECOV = 0%

Date

5/20

Described by

SB, JM

**Qj32-27
(174AX BB)**

Core #

50

Start Depth

260

Stop Depth

263

START - 205
OCT 1 2.85

Core - 1.3'

RECON - 43.3%

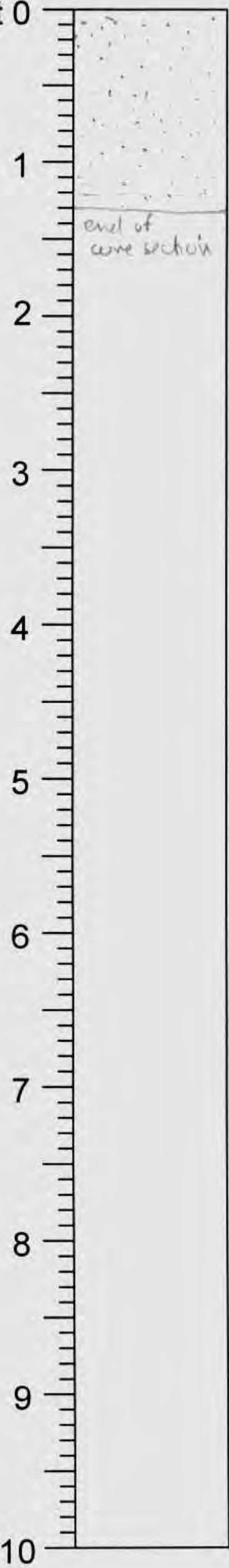
Date

5/20

Described by

JU, SB

Feet 0



0.0 - 1.3'
 SAND, medium, grading to fine with depth,
 color = 2.5 Y 5/1 (gray); rhythmic
 olm laminae⁽⁴⁾ at 1-cm intervals from 1.14 to
 1.25'; possible burrow structures of max size
 some org fragments (stem? about 7mm long)
 trace lignite; very small amt mica, some
 3-13 granules (c 1%).

Note: when we moved this core section into
 the PVC tubing, the upper end expanded,
 causing the whole section to register
 as 1.55' in the photograph. The true
measured length is 1.3'

Gene III pointed out the high degree
 of compaction on this sand, evidenced
 by how 'fat' it was out of the
 cone barrel.

**Qj32-27
(174AX BB)**

Core #

51

Start Depth

263

Stop Depth

266

START DRILLING = 3.16'
WP = 3.45'

CORE = 1.55'
RECOVERY = 52%

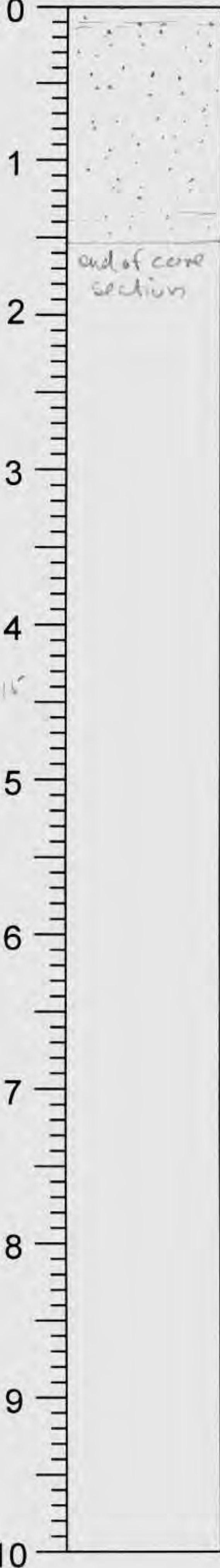
Date

5/20

Described by

SB, JU

Feet 0



0.0-1.55' SAND, fine, grading to v. fine with depth, 54R 6/1 (gray);

Continuation of rhythmic drum laminae at 1-cm intervals from section above, most prominently at 0.15', 0.17', 0.95', 1.0' and 1.3'. Some laminae are not parallel, but intersect, suggesting possible draping on a cross-bed structure.

**Qj32-27
(174AX BB)**

Core #

52

Start Depth

266

Stop Depth

270

START DRILLING =

4:00

UP = 4:30

CORE = 1.6'

RECOVERY = 40%

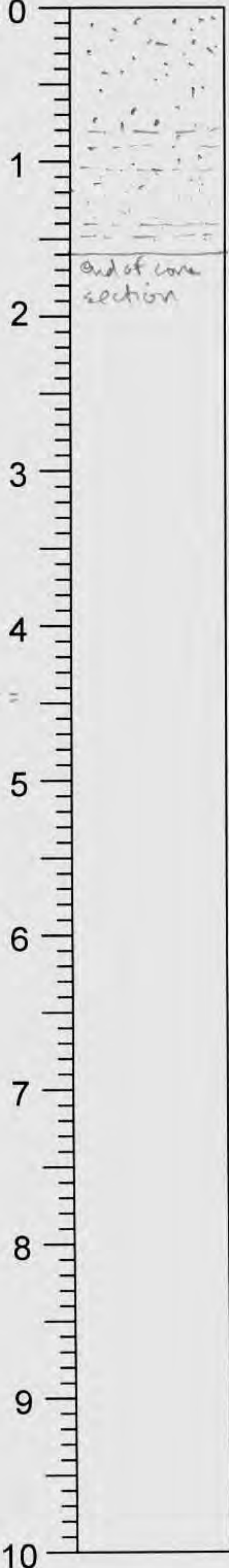
Date

5/20

Described by

JM, SB

Feet 0



0.0 - 1.6' SAND, medium grading to fine with depth; 2.5Y 5/2 (grayish brown); continuation of ohm laminae, here at 0.7' → 0.8' and 1.1' and 1.25' → 1.32' and 1.5'; slightly micaceous, sl. sl. lignitic. Spacing on sed. ohm laminae is approx. 1 cm.

Note: We seem to be picking up parts of a coarsening upward sequence on each run. We may be losing the v.f. fraction in the drilling process. The core in the shoe is less disturbed by drilling mud, so a better representative of the core section. Its color is 5Y 6/1 (gray)

Also, in this material, we seem to be able to capture in the core about the same length of sample over several runs, i.e. @ 1.6 - 2.0' per run.

**Qj32-27
(174AX BB)**

Core #

53

Start Depth

270

Stop Depth

275

TART: 9:06
UP: 9:40

Core: 0'
recovery: 0%

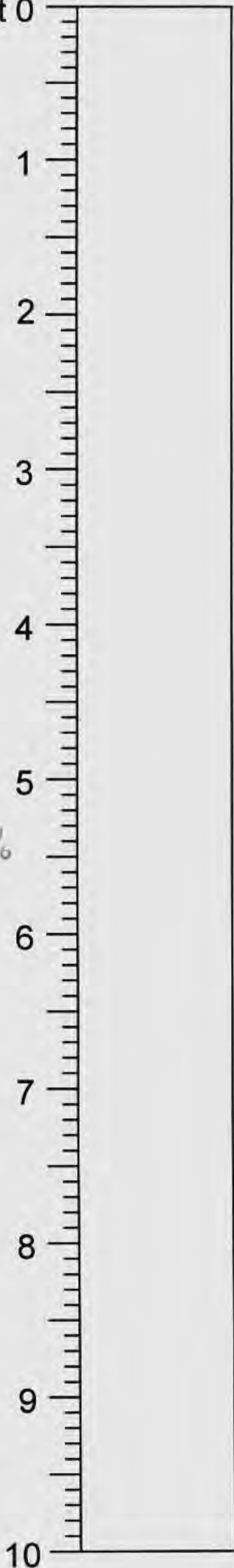
Date

5/21

Described by

SB, TU

Feet 0



no recovery this interval

cores on 5/21 were described
INSIDE TRAILER

**Qj32-27
(174AX BB)**

Core #

54

Start Depth

275

Stop Depth

277.5

DRILLING : 10.10
UP 10.40

Core Length =
1.65'

RECOVERY = 66%

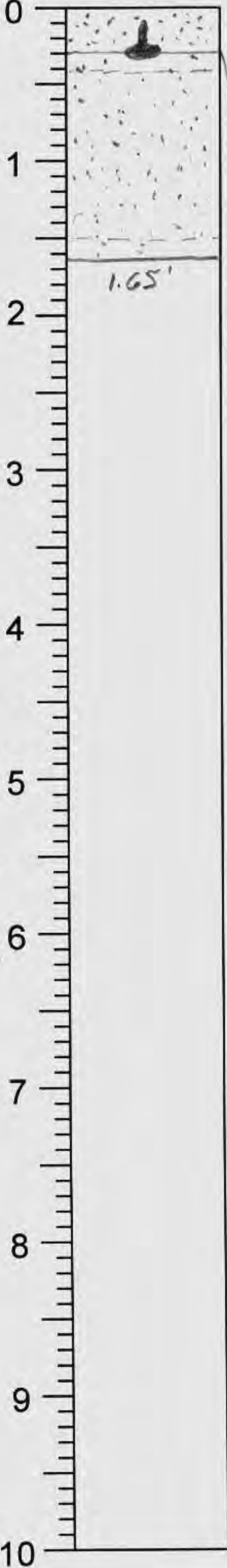
Date

5/21

Described by

SB, TU

Feet 0



0.0 - 0.3' SAND, coarse, fr. sorting,
sl. micaceous < 1% gtz granules,
2.5 ϕ 5/1 (gray); T-shaped pyritized
liguite nodule extends down to contact
with lower sand. Nodule is approx. 3 cms by
4.5 cms

0.3 - 1.65'
SAND, medium, fr. sorting, 2.5 ϕ 5/1 (gray),
ohm laminae at 0.4, 1.5; trace liguite &
ohm throughout

10

**Qj32-27
(174AX BB)**

Core #

55

Start Depth

277.5

Stop Depth

285

START: 10:50
UP: 11:35

Core 2.15'
= 9% Recovery

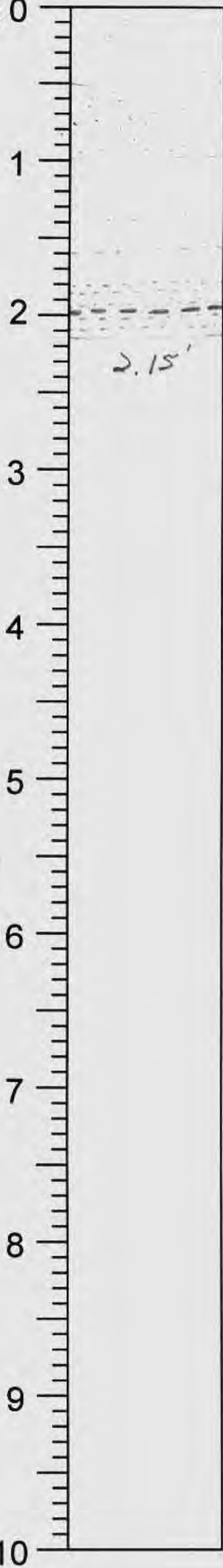
Date

5/21

Described by

SB, SU

Feet 0



0-0.5- SAND, fine subbed, trace heavies massive 2.5Y 5/1, grey
0.5-1.0 SAND, med, 2.5Y 5/1, grey trace heavies, trace light
1.0-2.15- SAND, fine to med, 2.5Y 5/1, grey, laminae of heavies @ 1.6, 1.8, 1.85, 1.95, 2.05, 2.12 light laminae @ 1.97.
On either side of heavies laminae, sand appears a lighter color 2.5Y 4/1, grey
..... = laminae of heavies
light lam.

**Qj32-27
(174AX BB)**

Core #

56

Start Depth

285

Stop Depth

288

START: 12:50
UP: 1:15

CORE = 2.45
RECOVERY = 82%

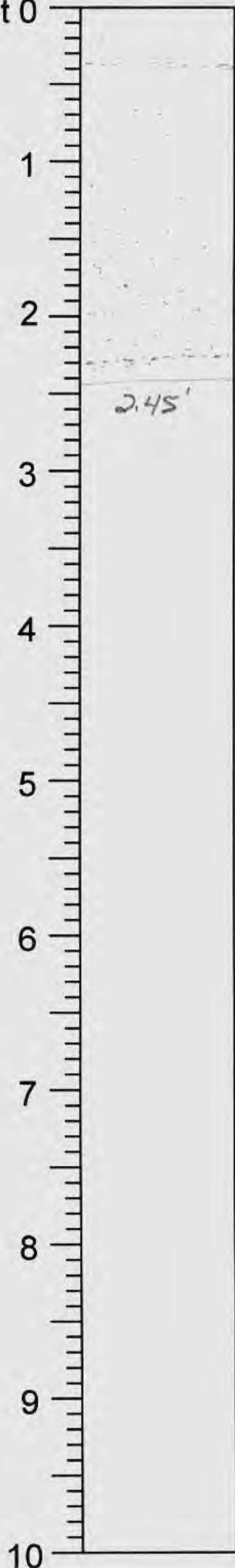
Date

5/21

Described by

SJB, JU

Feet 0



SAND, w/ a gradational change from fine at top of core to f-med to med at bottom, 2.54 s/s (grey), trace ohm sub-rounded to sub angular
→ 0.36 = ohm laminae

→ 2.30 = ohm laminae

2.45'

10

**Qj32-27
(174AX BB)**

Core #

57

Start Depth

288

Stop Depth

292

START: 1:20
UP: 2:10

Core = 1.45
Recovery = 36%

Date

5/21

Described by

SJB, JU

Feet 0

1

2

3

4

5

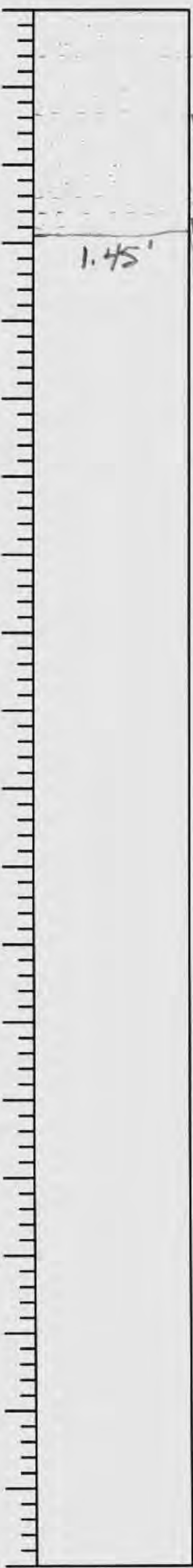
6

7

8

9

10



SAND, gradational change from med at top to fine at bottom - trace ohm and lignite - 2.5Y 5/1 (grey)

0.2 - ohm laminae } both ~ 2mm
0.67 " " } in width
1.16 " " ~ 5mm in width
1.20 " " ~ 1.5cm in width
1.32 " " ~ 5mm " "
1.40 " " ~ 2mm " "

Color of ohm at 1.20 = 2.5Y 4/1 (dk grey)
Dibbase band of ^{lighter} color (2.5Y 6/1 - grey) directly above ohm @ 1.40

**Qj32-27
(174AX BB)**

Core #

58

Start Depth

292

Stop Depth

294

START: 2:20
UP: 2:55

cone = 1.85
Recovery = 93%

Date

5/21

Described by

SSB, JU

Feet 0



SAND, COARSE TO MED., sub-rounded
trace OHM (0.0-0.15) 2.5Y 5/1, (grey)

SAND, med., sub rounded, trace OHM
lignite or OHM stringers (difficult to
tell) from 0.55-0.60 2.5Y 5/1, (grey)

SAND, very coarse, 5-7% granules, sub ang.
MASSIVE, 3% OHM color same as above
A pebble of non-cement at 1.42

NOTE: AT BOTTOM OF RUN
DRILLER NOTED "CHATTER".
INDICATING GRAVEL -
NO GRAVEL WAS RECOVERED
IN THIS CORE -

SEE DESCRIPTION + PHOTO
FOR CORE 59 FOR GRAVEL
PIECES

10

Feet 0

Qj32-27 (174AX BB)

TOP OF CORE ←

Core #

59

Start Depth

294

Stop Depth

297

START: 3:20
UP: 4:00

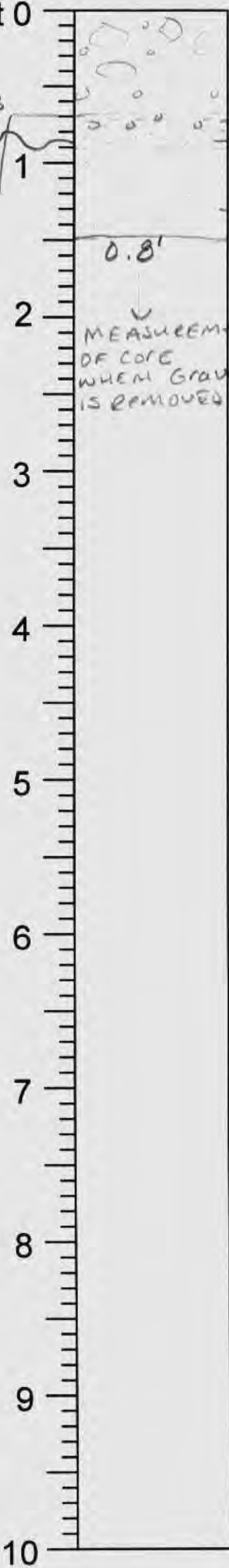
CORE = 0.8'
RECOVERY = 27%

Date

5/21

Described by

SSB, JU



GRAVEL FROM PREVIOUS THAT
FELL BACK INTO CORE BARREL

clay, silty, 2.54 3/1 (vry dk grey); lignite,
pyrite, [GRAVEL] grading to SILT 10YR 2/1, blk
and lignite toward 0.8.

SAND, MED to fine, 10YR 3/1, (dk grey), trace
lignite; very slight amt. of mica

SAND, fine, 10YR 3/1, (dk grey); staining
from lignitic material; very slight
amt. of mica

MEASUREMENT
OF CORE
WHEN GRAVEL
IS REMOVED

ACTUAL LENGTH OF CORE
IS 0.8'

Base of gravel ~ 294
Base of clay 294.1
SB/Fm boundary

**Qj32-27
(174AX BB)**

Core #

60

Start Depth

297

Stop Depth

300

START: 4:15
UP: 4:55

RECOVERY = 3%
CORE = 0.1'

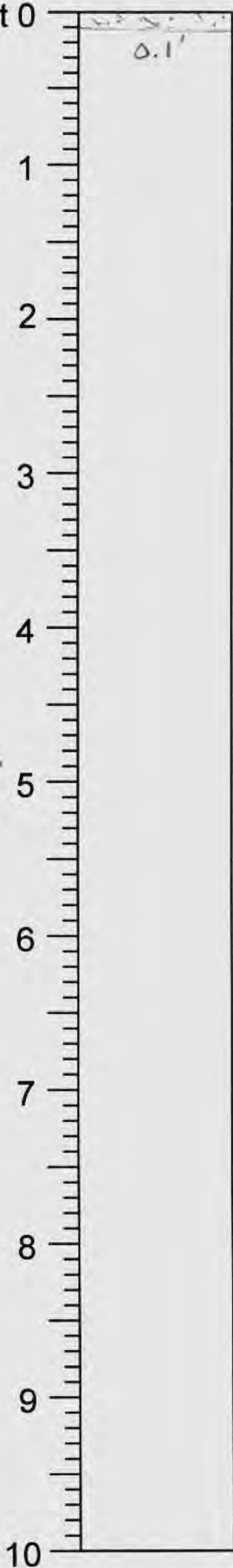
Date

5/21

Described by

SSB, JIA

Feet 0



0.0 - 0.1
NO RECOVERY FROM THIS
INTERVAL EXCEPT FOR A
0.1' SECTION, DESCRIBED
HERE:

SAND, silty, fine, trace
lignite + ohm
2.5 Y 4/2 (dark grayish brown)

**Qj32-27
(174AX BB)**

Core #

61

Start Depth

300

Stop Depth

305

Start drilling:
0845

Core up: 0920

CORE LENGTH = 3.7'

% RECOVERY =
74%

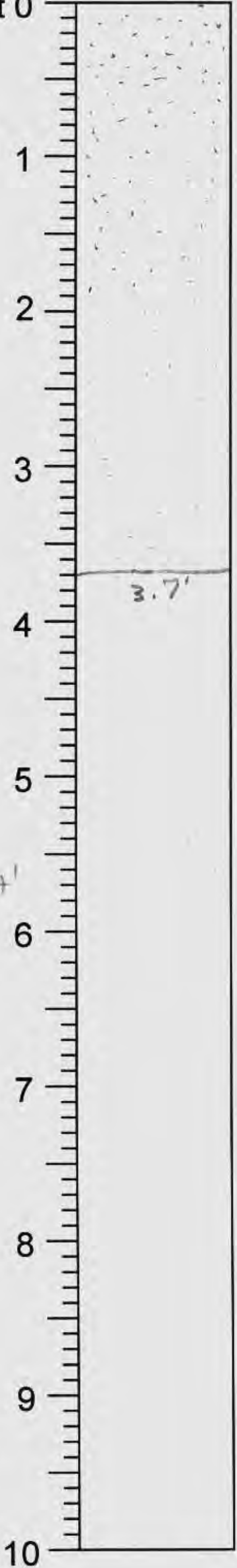
Date

5/22

Described by

JU, SAS

Feet 0



0.0 - 3.7, SAND, medium grading to fine (well sorted) with depth, 1% coarse and granules, tr. light, tr. mica, tr. olm, disseminated throughout, sub-rounded, massive, unconsolidated.

**Qj32-27
(174AX BB)**

Core #

62

Start Depth

305

Stop Depth

310

START
DRILLING = 1100
CORE CUT 1120

CORE LENGTH = 4.0'
% RECOVERY = 80%

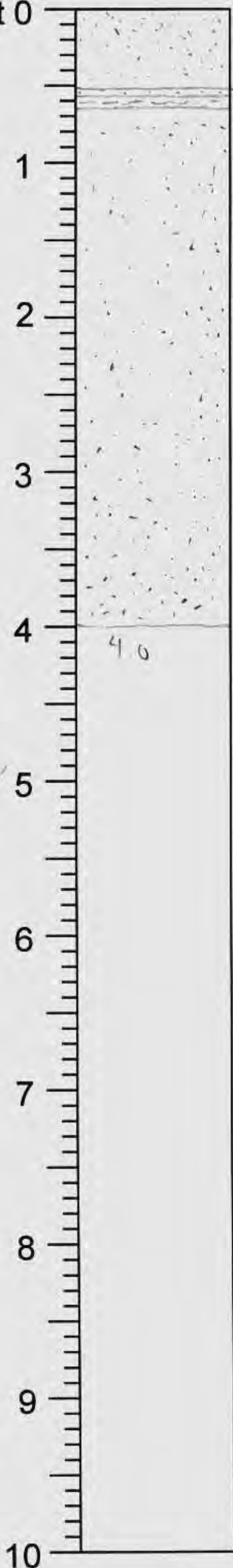
Date

5/22

Described by

JU, SAS

Feet 0



0.0 - 0.55' SAND, medium to fine, well sorted,
tr. ohm, tr. lignite, massive, 5Y 4/1 (dk. gray),
sub-rounded grains.

0.55 - 0.59' SAND, medium to fine, dark stained
from organics 5Y 2.5/1 (black)

0.59 - 0.63' CLAY, silty, with organics as flecks
and sm chunks (5mm size); orgs give the clay
a darker color than the top sand (2.5Y 3/1, very
dark gray);

0.63 - 4.0' SAND, medium to fine, massive,
5Y 4/1 (dk. gray), trace ohm throughout,
trace lignite, tr. mica

4.0

**Qj32-27
(174AX BB)**

Core #

63

Start Depth

310

Stop Depth

312.5

DRILLING 1340

UP = 1400

Core = 155'

Recovery = 62%

Date

5/22

Described by

JU, SAS

Feet 0



0.0 - 1.55 SAND, medium/fine grading, lo fine with depth, color = 2.5Y 5/1 (gray), massive, evidence of burrowing; darker clayey burrows at 0.27 and 1.04'; 20% heavies no lignite, no mica.

**Qj32-27
(174AX BB)**

Core #

64

Start Depth

312.5

Stop Depth

320

DRILLING = 1420

UP = 1445

CORE LENGTH = 6.37

% RECOVERY = 84.9%

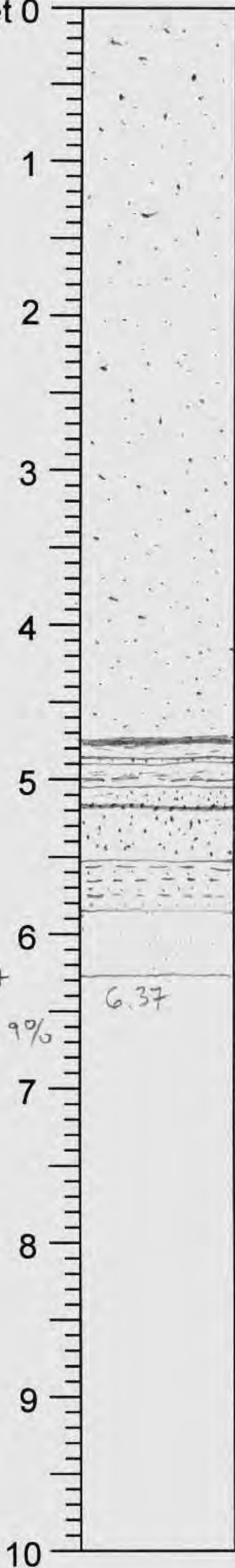
Date

5/22

Described by

JU, KGM, SAS

Feet 0



INTERESTING CORE

Possible pro. delta

0.0 - 4.75 SAND, medium to fine, some x-bedding, tr. ohm, no lignite, well sorted, evidence of burrows, well burrowed, trace mica; color grades from 5Y 5/1 (gray) at top to 5Y 4/1 (dark gray) at 4.5 - 4.65

4.75 - 4.85 CLAY, lignitic layer of 0.02' thickness, silty 2.5Y 2.5/1 (black) at top of clay. Color of clay below lignite layer is 5Y 3/1 (very dark gray)

4.85 - 4.88 SAND, fine, tr. heavies, color 5Y 4/1 (dark gray)

4.88 - 5.03 CLAY, same color as clay above, 5Y 3/1 (v. dk. gray), silty, prominent lignite layers at 4.93, 4.98

5.03 - 5.15 SAND, color = 5Y 4/1 (dark gray), medium to fine, darker coloration from organics

5.15 - pyritized lignite layer 1.5 mm thick

5.16 - 5.52 SAND, coarse/med, grading to fine at end of core, trace mica, trace ohm, trace lignite, massive

5.52 - 5.85 INTERBEDDED CLAY AND SAND, clay beds are about 2-15 mm thick, sands are about 2-15 mm CLAY + sand are the same color, 5Y 3/2 (dk olive gray)

5.85 - 6.37 SAND, fine gr. tr. heavies, massive, lighter colored 5Y 5/1 (gray) trace mica, no lignite.

**Qj32-27
(174AX BB)**

Core #

65

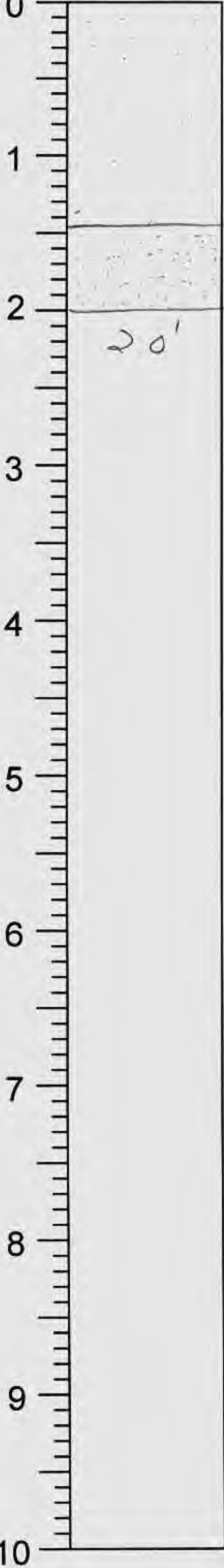
Start Depth

320

Stop Depth

324

Feet 0



SAND; fine-med, trace mica, trace ohm, trace lignite, 2% coarse sand, massive well sorted (SY s/i) gray

SAND; fine, trace lignite, trace ohm, very well sorted (SY s/i) gray

DEILLING: 1520
UP : 1538
CORE = 2'
RECOVERY = 50%

Date

5/22

Described by

JU, KGM FAS

10

**Qj32-27
(174AX BB)**

Core #

66

Start Depth

324

Stop Depth

330

DRILLING: 1540

WP: 1602

CORE LENGTH: 5.45'

RECOVERY: 91

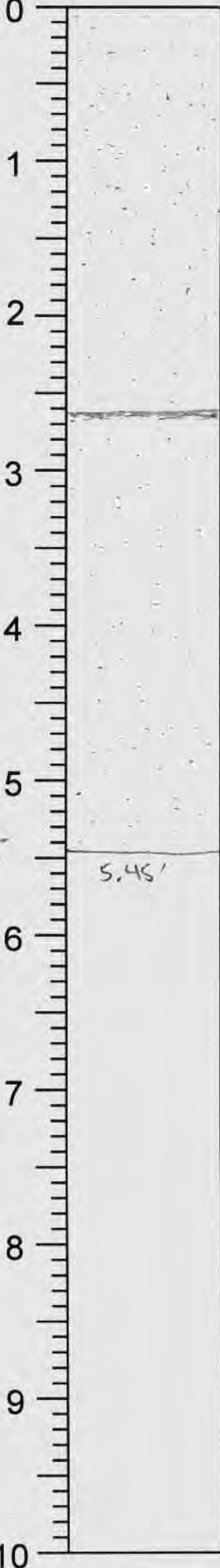
Date

5/22

Described by

JU, KGM, SAS

Feet 0



0.0 - 5.45, SAND, fine to medium, 2.5 Y 5/1 (gray), tr. lignite, tr. mica, tr. oliv., massive, w/ abundant burrow structures, lignite increases after top 1.0 foot; lignite layer of 0.03' thickness @ 2.65 - 2.68. Top 1.0 foot of core is less lignitic.

Note: core is holding together much better in #66 than previous core for last several days. We suspect it is due to sm. amt clay holding it intact

5.45'

10

**Qj32-27
(174AX BB)**

Core #

67

Start Depth

330

Stop Depth

340

Drilling = 1630??

UP = 1700

Core length = 4.75

% Recovery = 48%

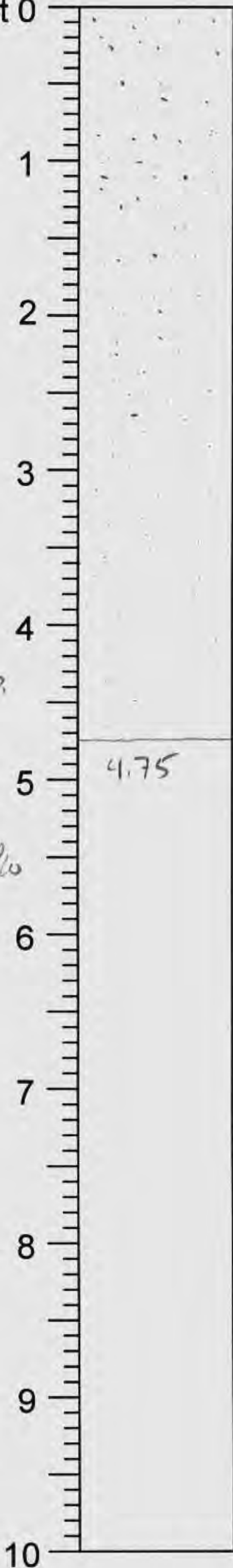
Date

5/22

Described by

JU, KGM, SAS

Feet 0



0.0 - 4.75 SAND, medium/fine grading to fine at depth; color: 2.5 Y4/1 (dk gray); tr. phosphate nodules (<1mm -> 15mm diam) throughout; prominent <mm-scale lighter-colored clay layers at 1.85 -> 2.5 and 3.0 -> 4.2, spaced at about 1cm intervals; tr. ohm, tr. lignite

Qj32-27
(174AX BB)

Core #

68

Start Depth

340

Stop Depth

350

start time - 0800

stop time - 0830

% recovery = 0.0

Date

5/23

Described by

SAS

Feet 0

1

2

3

4

5

6

7

8

9

10

No recovery

Qj32-27
(174AX BB)

Core #

69

Start Depth

350

Stop Depth

355

Start Time: 0900

Stop Time: 0920

% recovery: 71

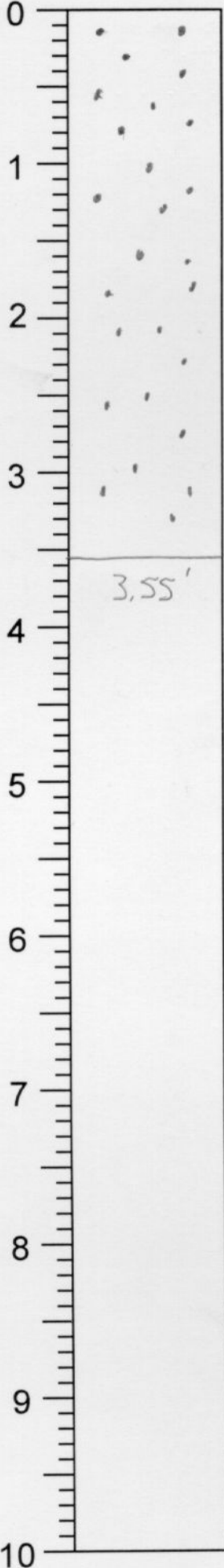
Date

5/23/00

Described by

KM

Feet 0



SAND

"soupy" fine-medium quartz
sand; common coarse grained
qtz sand incl. purple grains (amethyst)
trace - 1% ohm

5Y 4/1 dark gray

Structure massive due to
drilling disturbance /
trace lignite

Qj32-27
(174AX BB)

Core #

70

Start Depth

355

Stop Depth

360

% recovery: 58

Start 0945

Stop 1010

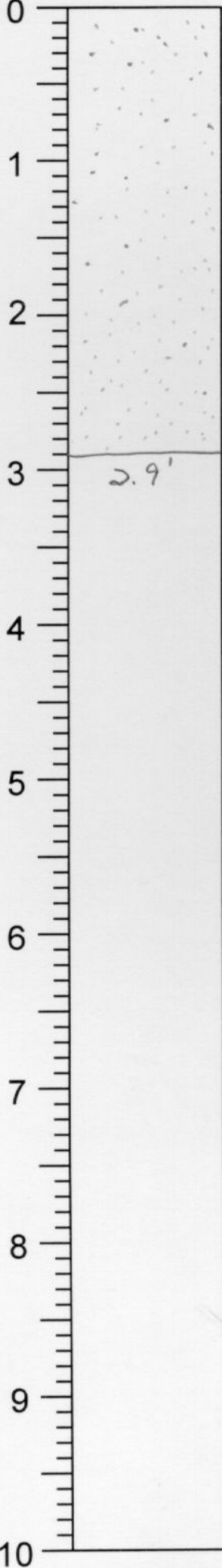
Date

5/23/00

Described by

SAS

Feet 0



SAND; fine-medium, well sorted,
"soupy" in top 1.5' then becoming
firmer, trace - 1% chm, unconsolidated
(5Y 4/1) gray, trace lignite, unbedded,
some amethyst grains

Qj32-27
(174AX BB)

Core #

71

Start Depth

360

Stop Depth

365

start: 1040

stop: 1105

% recovery: 82

Date

5/23/00

Described by

SAS

Feet 0

1

2

3

4

5

6

7

8

9

10

SAND; fine - med., well sorted,
massive, (54 4/1) dark gray,
trace lignite, trace-^{1.9%}ohm, core
is holding together in a cylindrical
shape^{better} than previous core, trace of
mica, bottom part of core has
slumped a little from extraction

4.1'

**Qj32-27
(174AX BB)**

Core #

72

Start Depth

365

Stop Depth

370

start: 1130

stop: 1148

% recovery:
86%

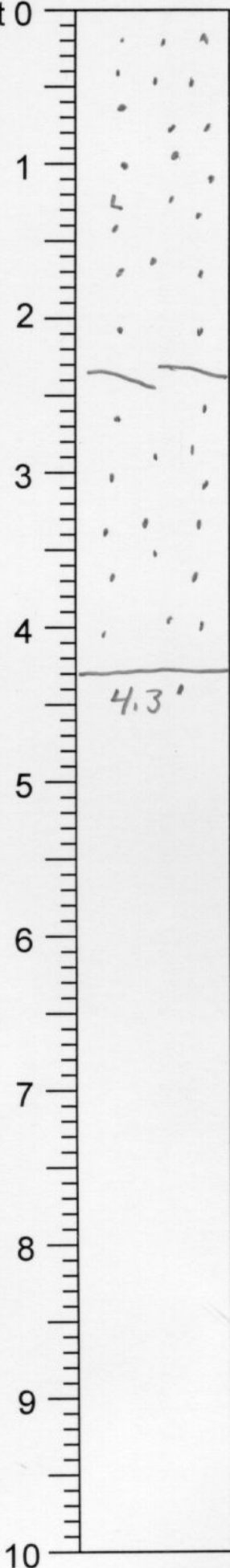
Date

5/23/00

Described by

KM

Feet 0



SAND; fine-medium
generally well sorted though
still coarse grained
of various colors still occur
lignite in trace quantities,
trace ohm, trace mica
generally massive, though
distinct x-bed 2.4-2.6
with hints x bedding 2.6 - 4.1
slightly more mud (clay?),
providing better core integrity
4.1-4.3 coarse-medium
SY 4/1 dark gray

4.3'

**Qj32-27
(174AX BB)**

Core #

73

Start Depth

370

Stop Depth

375

Start: 1315

Stop: 1342

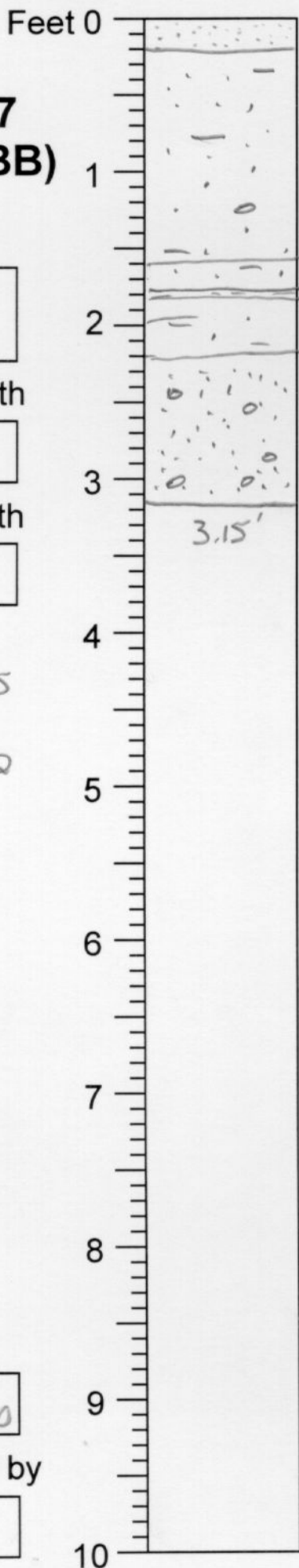
% recovery:
63

Date

5/23/00

Described by

KM



SAND; fine-med. ^{clayey} well sorted, unconsolidated
(ST 4/1) dark gray,

clay content varies

0.0-0.2 v. slightly

0.2-0.8 slightly

0.8-1.6 v. slightly

1.6-2.2 clayey

clay lam. 1.77-1.79

2.2-3.1 v. slightly

Common v. coarse sand, gravel,
and pebbles on outside,
increasing down section

These are present (though less
common) inside of core
incl. phosphate pebbles

Bedding is massive due to
bioturbation. Hints of
x-lams in clayey section

trace shell / shell fragm't

@ base

10

Qj32-27
(174AX BB)

Core #

74

Start Depth

375

Stop Depth

380

Start 1400

Stop 1420

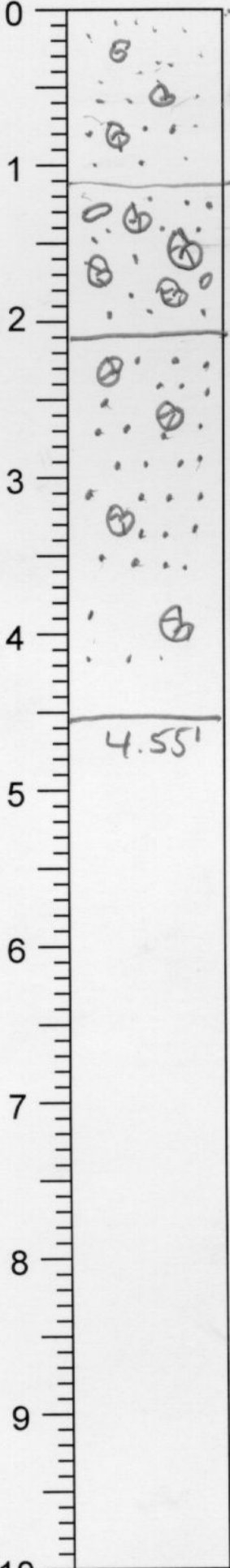
% recovery
91

Date

5/23/00

Described by

Feet 0



Slightly clayey
SAND, fine-medium shelly
sl. w/ coarse qtz phosphate grains/
Shelly granules/ pebbles
> 1 % o/m
very shelly
massive bedding
shells mostly broken
- few whole Turritella, gastropods
clams (? Mercenaria)
shelly
large phosphate pebbles
(15mm 1.3 ft, 5mm 2.4 ft)

3.0 ft large gastropod
5x4/1 dark gray
2.1 ft looks like a
small channel/x-bed?
big shell underside 3.7

10

Qj32-27
(174AX BB)

Core #

75

Start Depth

380

Stop Depth

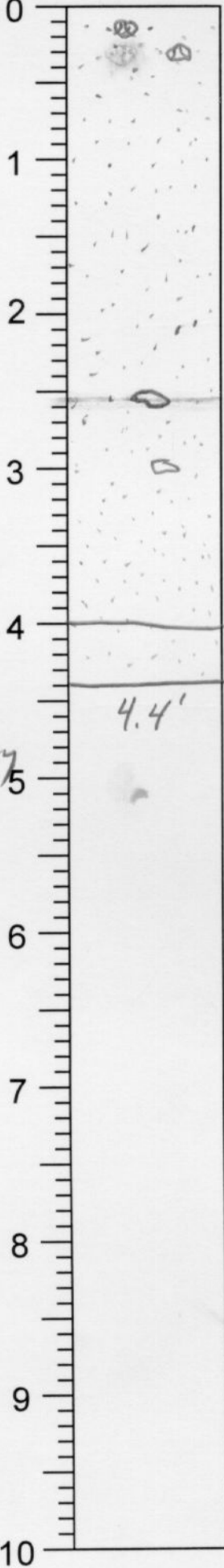
385

Start 1445

Stop 1510

00 % recovery

Feet 0



SAND; clayey, fine-med well sorted
2-3% ohm, massive, shelly, (5Y4/1)
shells mostly broken
darkgray

olive

phosphate pebble (10mm)

large shells, more abundant towards bottom

4.4'

Date

5/23/00

Described by

SAS, JBB

Qj32-27
(174AX BB)

Core #

76

Start Depth

385

Stop Depth

390

Start
1525
stop 1600

89% recovery

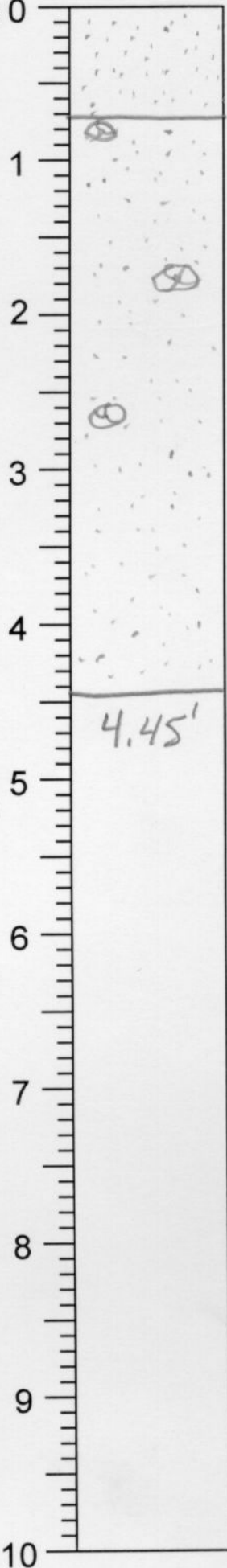
Date

5/23/00

Described by

SAS; JJB

Feet 0



SAND; fine-med^{clayey}, few shells, firm
SAND; med, a lot more shells,
baby shells & broken adult shells,
(bivalves & gastropods), phosphate
grains (3mm) throughout, massive
(2.5Y 3/1) very dark gray

QJ32-27
(174AX BB)

Core #

77

Start Depth

390

Stop Depth

395

Start: 1610

Stop: 1635

% Recovery: 62

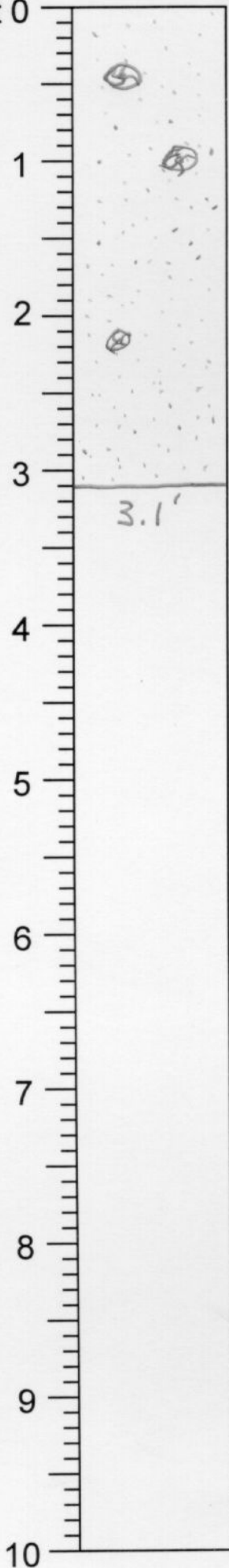
Date

5/23/00

Described by

SAS: JJB

Feet 0



SAND; fine-med granules (qtz) & shells
(shelliest core yet)
"Soupy" lots of shell fragments throughout
massive, 5% ohm, (5Y 4/1) dark gray

**QJ32-27
(174AX BB)**

Core #

78

Start Depth

395

Stop Depth

400

Start: 1648

Stop: 1715

% recovery

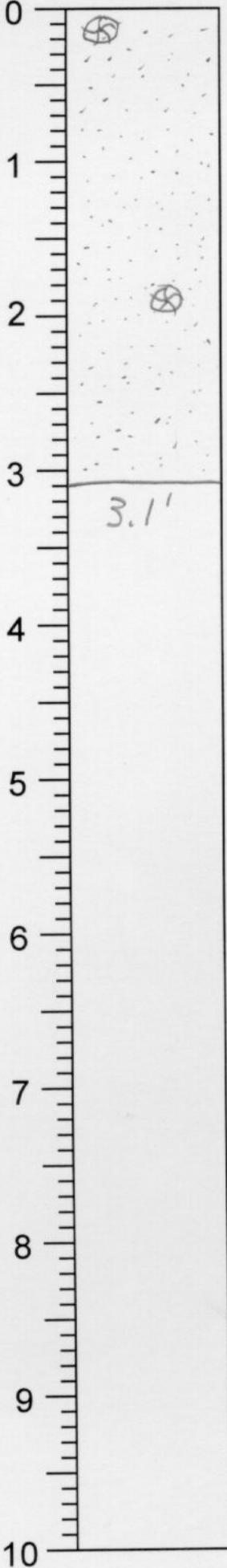
Date

5/23/00

Described by

SAS: JJB

Feet 0



SAND; fine-med, ^{clayey} well sorted, massive
lots of shells throughout, shells
seem to be bigger, trace lignite,
~5% ohm, (SY 4/1) dark gray

**Qj32-27
(174AX BB)**

Core #

79

Start Depth

400

Stop Depth

405

Start: 0805

Stop: 0835

% recovered: 100

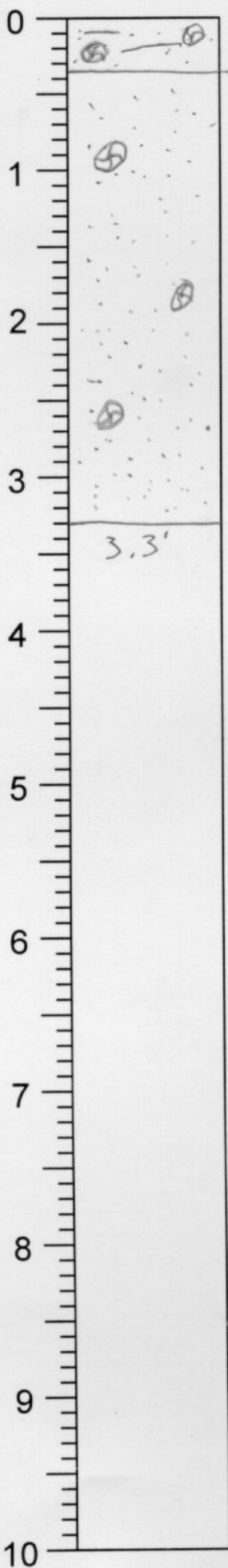
Date

5/24/00

Described by

SAS: JVB

Feet 0



SAND; Very clayey, fine-med, shells (fragmented)
massive, SY 3/2 dark olive gray, well
sorted, qtz. granules (<4mm), 5-7% dm, /

SAND, slightly clayey, fine-med, shells (fragmented)
massive, SY 3/2, well sorted, 5-7% dm,
qtz. granules
(all shells appear to be fresh)

3.3'

**Qj32-27
(174AX BB)**

Core #

80

Start Depth

405

Stop Depth

410

Start: 8:55

Stop: 9:20

% recovered:

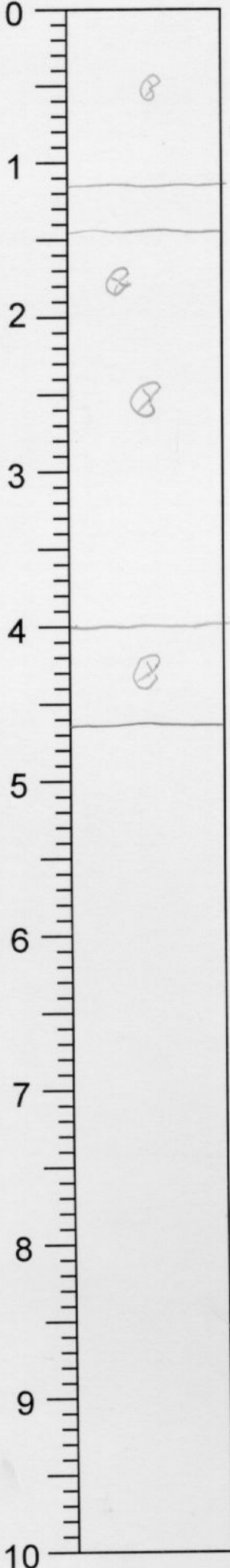
Date

5/24/00

Described by

SAS: JVB

Feet 0



FINE TO MEDIUM SAND
FIRMER
COLOR - SY 3/2
D.K. OLIVE GRAY

SOOPY-UNCONSOLIDATED

FINE TO MED SAND
SIMILAR TO ABOVE

CORE IS SOFTER

4.65'

5% HEAVIES
TRACE LIGNITE SEEN - ONLY UPPER
50% QTZ GRAVELS HALF
MASSIVE
FLAKES OF TRICA
FEWER SHELLS
SMALLER SHELLS - NO LARGE
CHUNKS
QUIETER WATER ENVIRONMENT
THAN ABOVE
MAYBE FAINT EVIDENCE FOR
A MOTTLED (BIOTURBATED)
TEXTURE.

10

**Qj32-27
(174AX BB)**

Core #

81

Start Depth

410

Stop Depth

415

Start: 0930

Stop: 1005

% recovered: 81

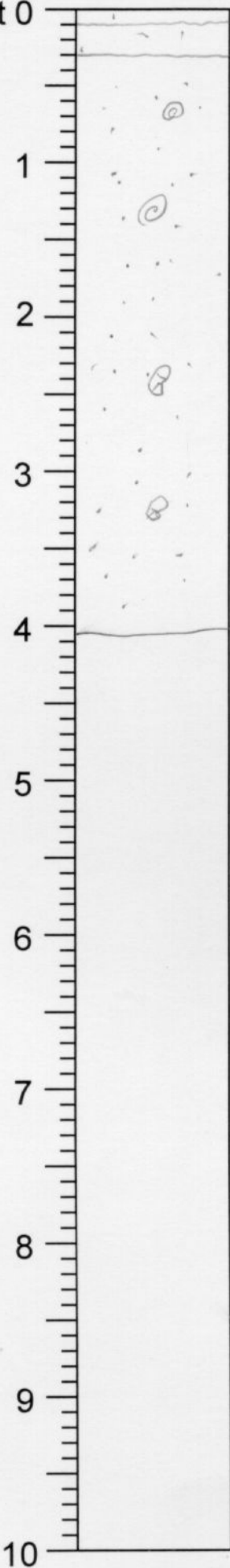
Date

5/24/00

Described by

SAS + JVB

Feet 0



VERY FIRM

FINE SAND - SOME MEDIUM SAND
ABUNDANT SHELLS / SHELL FRAGS
NO LARGE SHELLS

5-7% DARKS

TRACE MICA

TRACE LIGNITE

WELL SORTED / SUB-ROUNDED

MASSIVE - NO BURROWS /
MOTTLED (NOTED)

COLOR: 5Y 3/2

DK OLIVE GRAY

4.05'

10

Qj32-27
(174AX BB)

Core #

82

Start Depth

415

Stop Depth

420

Start: 1025

Stop: 1050

% recovered: 84

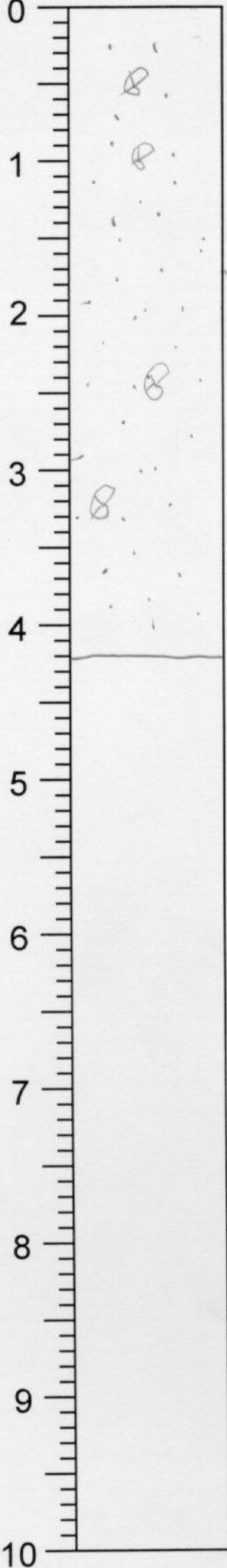
Date

5/24/00

Described by

SAS+JVB

Feet 0



FINE SAND
WELL SORTED
SUB ROUNDED
5% DARK MINS

SHELLY - ALL SHELLS
ARE FINE / SMALL
MANY FRAGS - SMALL
TRACE MICA - NOT MUCH

LIGNITE - TRACE BUT MORE
NOTICABLE THAN ABOVE

SOME WHOLE GASTROPODS
MASSIVE

COLOR - GREY 1

5GY 4/1

DK - GREENISH GRAY

**Qj32-27
(174AX BB)**

Core #

83

Start Depth

420

Stop Depth

425

Start: 11:15

Stop: 11:40

% recovered:

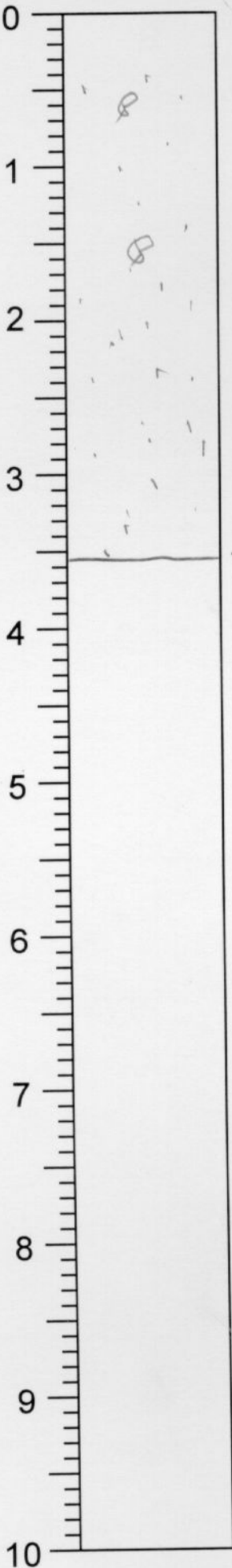
Date

5/24/00

Described by

JTB/SAS

Feet 0



FINE QTZ SAND

5-7% OILY

VERY WELL SORTED
WEY ROUNDED

VERY FEW GRAANULES

VERY SOFT CORE

LITTLE CLAY MATRIX?

HOLDING IT TOGETHER

TRACE MICA

TRACE LIMITE-LARGER
PIECES

AS WE GO DOWN WE
ARE GETTING FINER

+ BETTER SORTED/ROUNDED

FINE SHELLS- FEWER

THAN ABOVE

SOME SHELLS HAVE

ORIGINAL (?) COLOR PATTERN

Gley
COLOR: 10 GY 4/1

DK Greenish Gray

**Qj32-27
(174AX BB)**

Core #

84

Start Depth

425

Stop Depth

430

Start: 1237

Stop: 1300

% recovered: 85

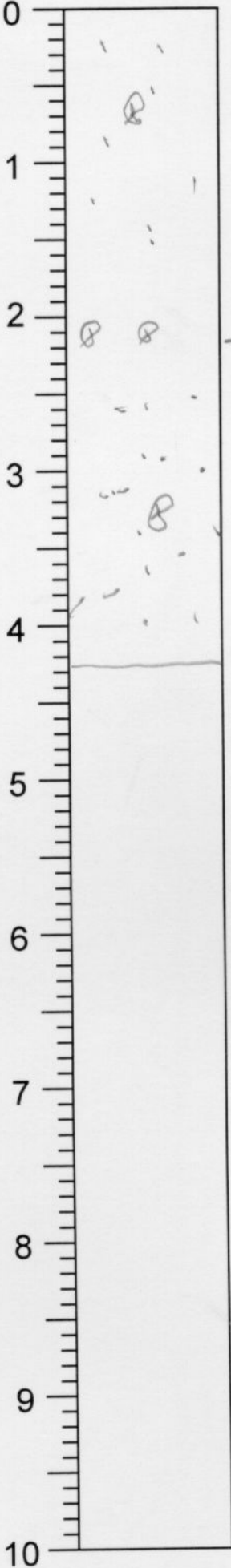
Date

5/24/00

Described by

SAS: JVB

Feet 0



FINE-V.F SANDY - CLAYCY
TRACE MICA

TRACE LIGNITE w/
MORE (LARGER) THAN ABOVE

SMALL shells/Fragments
-2.2 - SHELL BED
- THINWALLED
- FEWER THAN ABOVE

LIGNITE PIECES 0.2 + 3.5
1.5 CM'S LONG

WET + UNCON SOLIDATED

MOTTLED TEXTURE → BIOTURBATION

4.25' 10 G 7 4/1 DK GREENISH
GRAY

10

Qj32-27
(174AX BB)

Core #

85

Start Depth

430

Stop Depth

440

Start: 1315

Stop: 1345

% recovered: 104

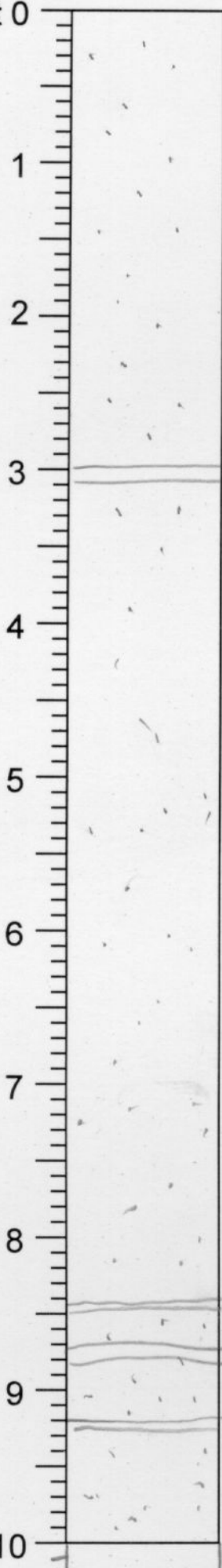
Date

5/24/00

Described by

JVB/SBS

Feet 0



FINE - Very FINE SAND

MOTTLED TEXTURE

ABUNDANT SILT

TRACE MICA - MORE COMMON

LIGNITE - TRACE

PHOSPHATE GRANULES

WELL SORTED

OHM - 5-7%

CLAY
LAYER

BOTTOM 2 FT CONTAINS

MORE SILT THAN UPPER

PART

OVERALL FINING DOWN

VERY BOTTOM IS CLAYEY

SHELLS ARE COMMON

FINE - THIN WALLED

Color: 10GY 4/1 Dark greenish gray

CLAY

CLAY

CLAY

MORE CLAY

10 HST

**Qj32-27
(174AX BB)**

Core #

86

Start Depth

440

Stop Depth

450

Start: 1358

Stop: 1425

% recovered: 102.5

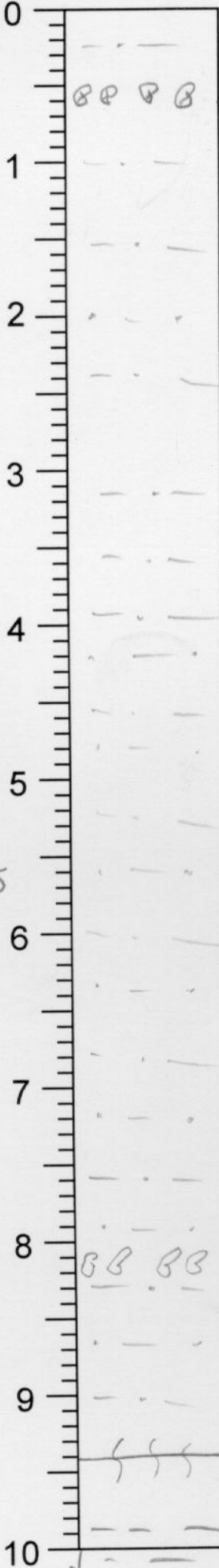
Date

5/24/00

Described by

JVB/SAS

Feet 0



BB BB - Shell Layer

VERY FINE SANDY SILT

TRACE OF MICA

SMALL SHELLS + FINE
shell FRAGMENTS THROUGHOUT

OHM - 5-7%

HEAVY BIOTURBATION

SOME CLAY LAYERS

Throughout

MORE COMMON
IN BOTTOM HALF

BURROWS TO BOTTOM
OF CORE

+ CLAY UP TO 9.1 FT

SILT COLOR 5.6Y 4/1
SAND

DK. Greenish gray

FROM TOP - 2.6 FT - COREWASHES
OUT - LAMINATIONS
? BURROWS

CLAY AT BOTTOM

COLOR: 2.5Y 4/1

DARK GRAY

BB BB - SHELL LAYER

BURROWS 1-1.5 CM ACROSS

BURROWED CONTACT

BURROWS FILLED W/ ABOVE

FAT CLAY - A LITTLE SILT

10.25 FT

**Qj32-27
(174AX BB)**

Core #

89

Start Depth

470

Stop Depth

480

Start: 1615

Stop: 1645

% recovered: 91.5

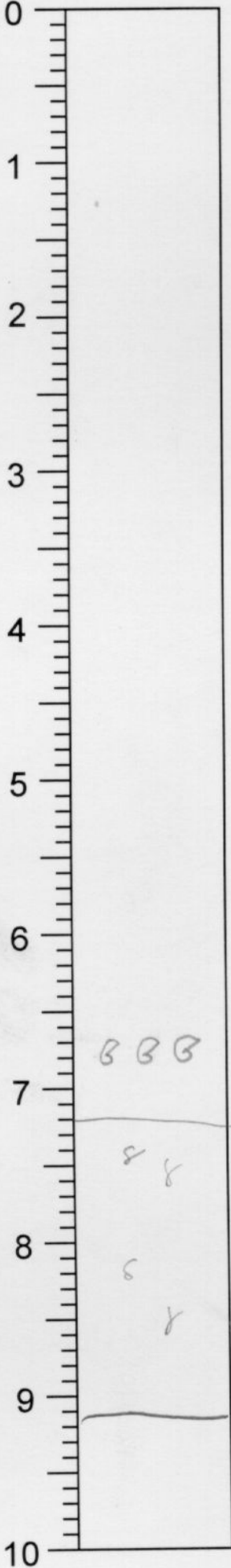
Date

5/24/00

Described by

JVB/SAS

Feet 0



SLIGHTLY SILTY CLAY
LAMINATED
BURROWS
GLAUCONITE TRACE
BELOW 7.25

SHELL LAYERS
6.7 - 6.9
MAINLY HIGH SPIRED SNAILS
HARD + DRY!
COLOR: 10Y 4/1 D. GR GRAY
COLOR: 10Y 5/1 GR GRAY
↳ PARTIS THUS

Qj32-27
(174AX BB)

Core #

88

Start Depth

460

Stop Depth

490

Start: 1525

Stop: 1555

% recovered: 67

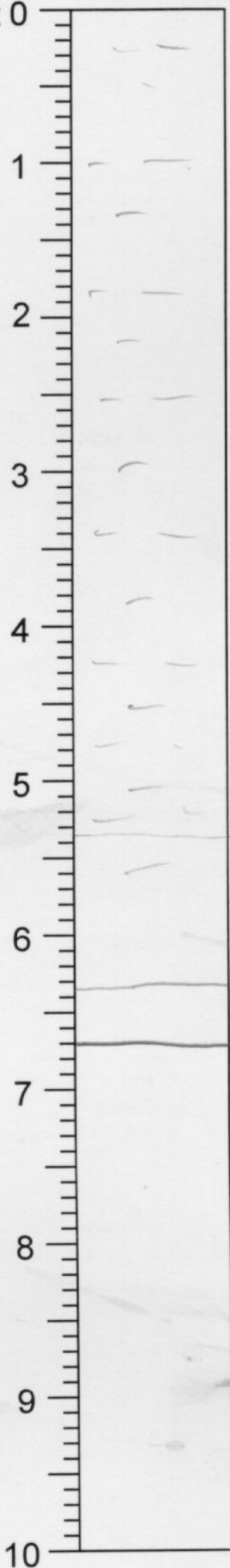
Date

5/24/00

Described by

JVB/SAS

Feet 0



SLIGHTLY SILTY CLAY
TRACE MICA
TRACE HEAVYS
HARD

BURROWS THROUGHOUT
LAMINATIONS IN UPPER
PART

FEW SHELLS
MAINLY HIGH SPIRED
GASTROPODS

COLOR - 10Y6 4/1
DK GREENISH GRAY

REMINDS ME OF
THE DELTA FRONT
FACIES OF THE
KIRKWOOD

~~6.35'~~
6.7'

Qj32-27
(174AX BB)

Core #

90

Start Depth

480

Stop Depth

485

Start: 0800

Stop: 0835

102
% recovered

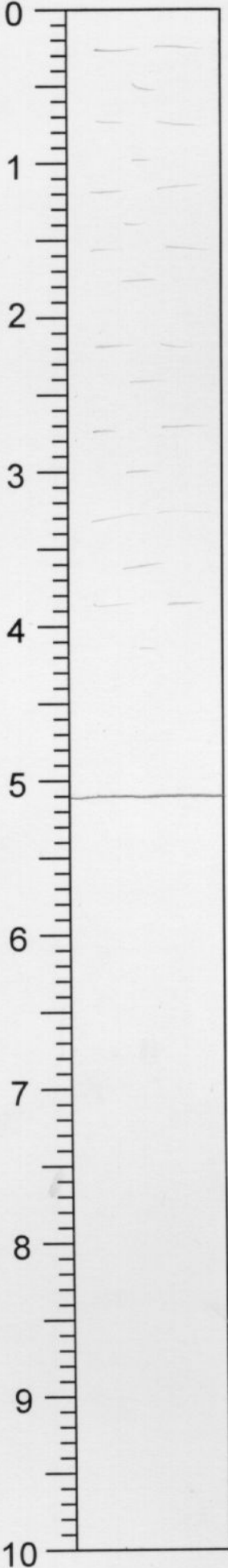
Date

5/25/00

Described by

SA'S & SUB

Feet 0



SLIGHTLY SILTY LAMINATED
CLAY

HARD

BURROWS - DARKER COLORED

FEW SMALL SHELLS

MAINLY GASTROPODS esp. 1.5 FT

TRACES OF LIGNITE

+ GLAUCONITE

COLOR 10Y 5/1

GREENISH GRAY

BURROW: 5Y 4/1 DK GRAY
COLOR:

5.1

10

**Qj32-27
(174AX BB)**

Core #

91

Start Depth

485

Stop Depth

490

Start: 8:48

Stop: 9:18

% recovered:

Date

5/25/00

Described by

SAS & JVB

Feet 0

1

2

3

4

5

6

7

8

9

10

LAMINATED SLIGHTLY
SILTY CLAY

BURROWS

TRACE SHELLS - 1 GAST @
~ 1 FT

LAMINATIONS ARE NOT
AS PROMINENT

SOME FINE SAND IN BURROW FILLS

TRACE MICA

TRACE LIGNITE

COLOR:

10Y 4/1 DK Greenish
GRAY

BURROW

5.22' 10Y 2.5/1 Greenish
BLACK

**Qj32-27
(174AX BB)**

Core #

92

Start Depth

490

Stop Depth

500

Start: 490

Stop: 499.5

% recovered:
99.5%

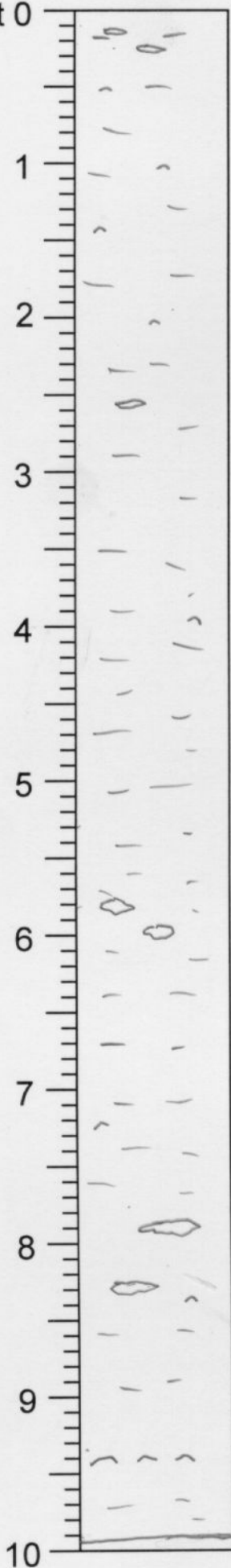
Date

5/25/00

Described by

JVB, SAS
KWR

Feet 0



CLAY, silty to SILT cly; dk greenish gray 5GY4/1; very stiff, to dk olive gray 5Y3/2
dis cont^{CaCO₃} cmt lam (nodules?) @ .17', .27', 2.6'
(Fizzes)

Some color lamination throughout - hard to tell if color coincides with any textural change; some lam blk - more organic rich.

Few - some thin-wall shell frag too small to id.

Nodules at 5.85', 6.0', 7.9', ^{8.3} ~ 1/2" in diam
pale olive 5Y6/3; slight fizz

lam of shell frag @ 9.45'

Qj32-27
(174AX BB)

Core #

93

Start Depth

500

Stop Depth

510

101.5%

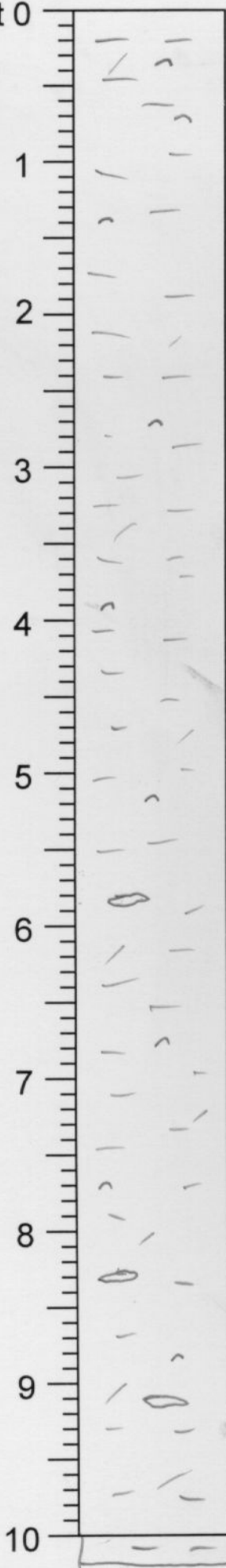
Date

5/25/00

Described by

KWR

Feet 0



CLAY, silty to SILT, clay, v. stiff,
dk greenish gry 5G4 4/1; scat few-some
shl frag (few gastropods); scat blk patches (org-
rich clay SILT) - more distinct @ 4.1', 5.9', 8.4', 8.9' +
9.1'; 5.85' (1 Dentalium-scapopod @ 6.4')
Concretions @ 8.4' fizz (CaCO₃) + 9.1';
Color banding not as distinct as core above.

10-15

Qj32-27
(174AX BB)

Core #

94

Start Depth

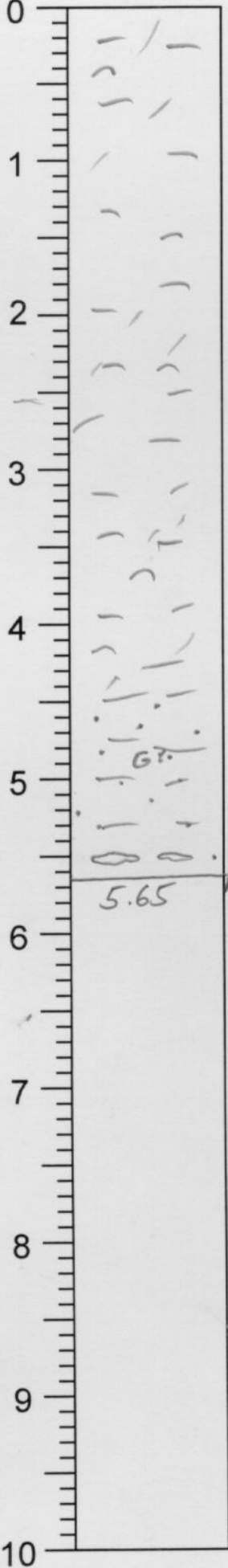
510

Stop Depth

516

5.65/6

Feet 0



CLAY, silty to SILT, cly; dk grnsh gry
5GY 4/1; very stiff; few scat sh
frag; few blk lam (org-rich clay)
at 4.5' ^{below} pick up some-common grnsh-blk
grains (glauv?)
few-some blk lam (org-rich).

cmt nodules @ 5.55' (fizzes)
at very base some cmt. fizzes violently -
stopped drilling b/c of cmt zone

Date

5/25/00

Described by

KWR

10

Qj32-27
(174AX BB)

Core #

95

Start Depth

516

Stop Depth

520

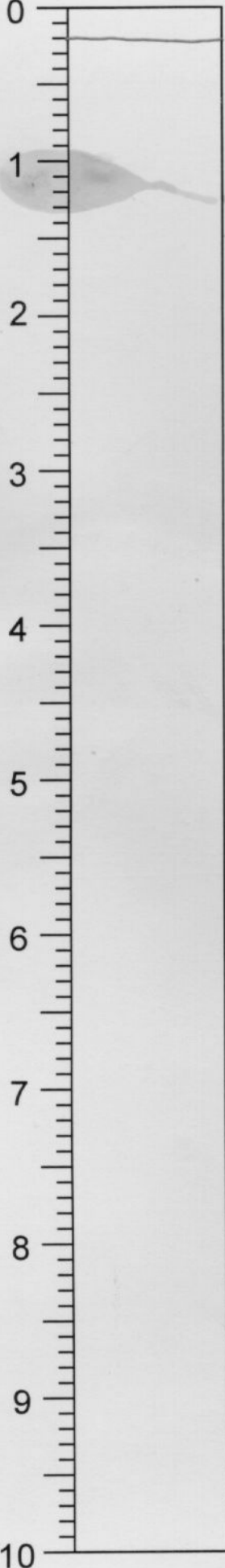
Date

5/25/00

Described by

JVB

Feet 0



0.7

CARBONATE INDURATED
NODULE
VERY FINE GRAINED
WITH GLAUCONITE

Qj32-27
(174AX BB)

Core #

96

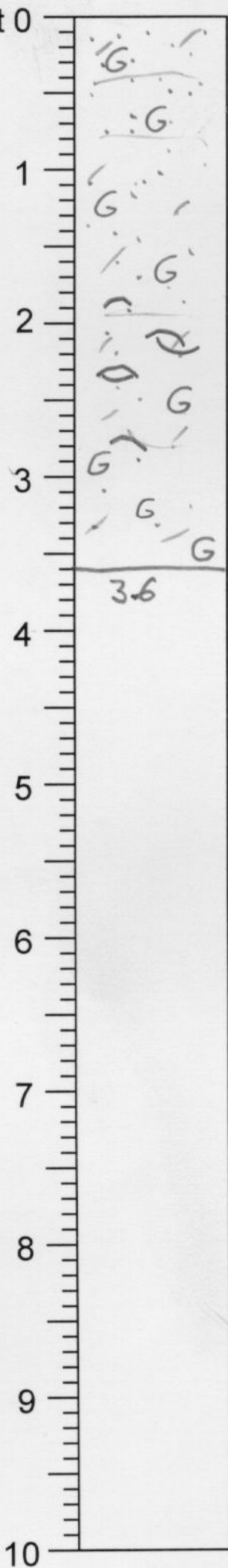
Start Depth

520

Stop Depth

523

Feet 0



to SAND, vf-f
SILT, silty clay, glauconitic, grayish green
5G' 4/2, glauconite vf-f, few some sh,
some-whole sh (both valves), lenses^{+lam} grnsh gry
silty clay common; few^{ex} gran qtz. b/l 2+3'
shl -chalky - larger shl on b/n 1.85 + 2.8'

Date

5/25/00

Described by

KWR

10

**Qj32-27
(174AX BB)**

Core #

97

Start Depth

523

Stop Depth

530

7.35' recovery

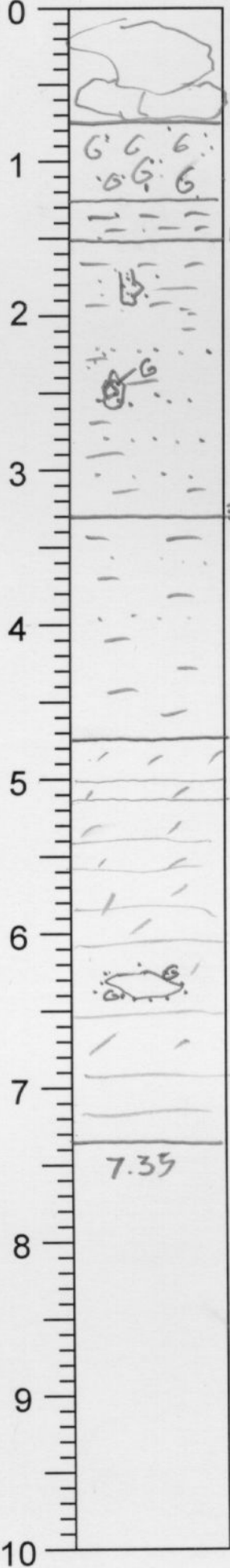
Date

5/25/00

Described by

KWR

Feet 0



Massive concretions, carbonate-cemented silt, cracked + filled w/ glauconitic SILT/SAND From above or below (0.75) Greenish gry 5GY 6/1

0.75 SAND, SILT, v.f. to SILT, sdy v.f.; v glauconitic; (sand grains are glauconite); silty clay;

1.25 SAND as above interlam w/ CLAY, silty, color as above, some sand-filled burrows

1.5 CLAY, as above lam w/ SAND, glauconitic v.f. sand lam decrease in abundance dn; few glau sand-filled burrows. dn to 3'

3.3 CLAY as above with few v thin sand/silt lam

4.75 SILT, clay; grnsh gry 5GY 6/1; w/ clay silt lam spaced about .2' apart; rare shell frag; trace mic

6.35-6.4 Concretion, calcareous w/ some glauc. sand @

10

**Qj32-27
(174AX BB)**

Core #

98

Start Depth

530

Stop Depth

540

wpc 9 am

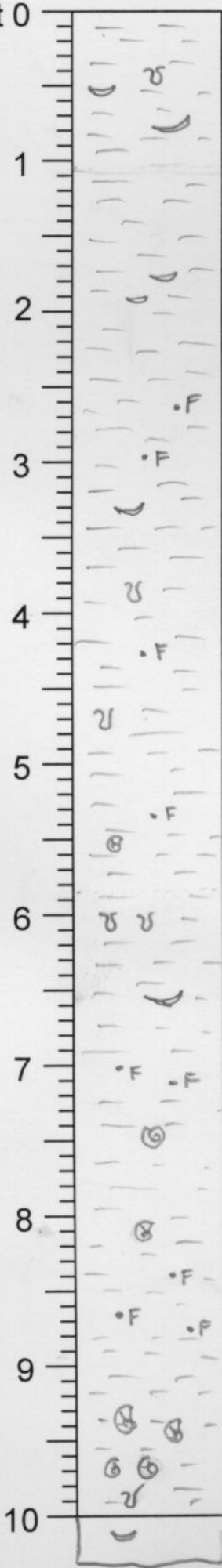
Date

5/26/00

Described by

PPMCK

Feet 0



CLAY: slightly silty, slightly micaceous; finely laminated, fine ≤ 1 mm laminae, lamina sets up to ~ 5 mm, scattered thin shells (incl. Turritella-like gastropods) Very stiff (w/ slighty conchoidal fracture) but pliable. Dark olive gray (5Y3/2) Scattered small dark specks (organics? minerals?)

scattered foraminifera on outside of core

burrow @ ~ 3.75 , silt-filled, pyrite

burrow @ ~ 4.7 , silt-filled, pyrite

burrows

foraminifera evident on outside of core

slightly better laminated, more shelly
burrow @ 9.8, silt-filled, pyrite

10.35'

**Qj32-27
(174AX BB)**

Core #

99

Start Depth

540

Stop Depth

550

Feet 0



CLAY: slightly silty; finely laminated (≤ 1 mm) package into 3-5mm lamina sets; gives appearance of banding between more clay-rich & more silt-rich layers; scattered shells and shell fragments; burrows, some silt-filled w/ pyrite; micaceous; forams evident

- shelly zone

- @ 3.8', banding less distinct - silt-filled burrow w/ pyrite

- @ 4.5', better banding

CLAY, silty, to SILT, clayey, downward; clay is as above, but with less distinct banding and increasing amount of silt & glauconite downward (2-3% @ bottom), scattered foraminifera evident by hand lens
 ← [shelly zone (1 grz pebble, ~ 5mm - contain?)]

SILT picks up gradually downward along with glauconite content, clayey, sandy (glauco)

silt-filled burrow.
 10.45' glauc-filled burrow

Date

5/26/00

Described by

PPMCL & JVB

**Qj32-27
(174AX BB)**

Core #

100

Start Depth

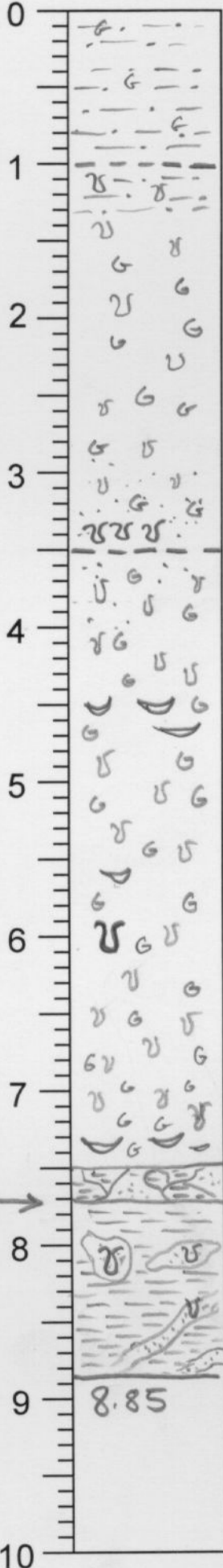
550

Stop Depth

558.5

up @ 11:10am

Feet 0



SILT, clayey, finely but indistinctly laminated, 2-3% glauc, micaceous, small shells & shell fragments, foraminifera - the lamina sets give banding of silty clayey vs. siltier zone dark olive gray (5Y 3/2) (trans. base)

SILT, clayey, transitioning downward to SAND, silty, v. glauconitic, distinguished by notable increase in burrowing (some mud-filled, some mud-lined) (trans. base into underlying interval); scattered small shell fragments; @ 2 grains from fine sand to 4mm granule on outside of core - don't see on inside - likely contam. micaceous; black SY 2.5/1 10-15mm dia

zone of well preserved mud-lined hor. zonal burrows

SAND, ^{fine-very fine to medium lower down} silty, very glauconitic, increasing in glauconite downward, micaceous, extensively burrowed (no laminations preserved), burrows 10-30mm dia, often mud-lined; contains shells & shell fragments, often larger (10-50mm); shells become more weathered towards lower end of interval; again, gtz on outside of core (contam?); zones of bright green clay(?); forams(?) evident large mud-lined burrow color: dark grayish green (GLE 1 5G 2.5/2)

glauconite up to med-grained @ this point weathered / chalky shells

CONTACT ZONE: mixture of above & below (mud burrowed up? clasts?)

CLAY, silty, micaceous, stiff, fairly dry (break w/ conch. fracture), unlaminated, some dark (organic?) spots, pyrite (silt size, in zones - burrows?), small shells / forams; large, glauc-filled burrows, horiz, up to 30mm diameter, sim. lithology as above

color: dark gray (2.5Y 4/1)

CONTACT →

Date

5/26/00

Described by

TRAC/LJV

**Qj32-27
(174AX BB)**

Core #

101

Start Depth

558.5

Stop Depth

560

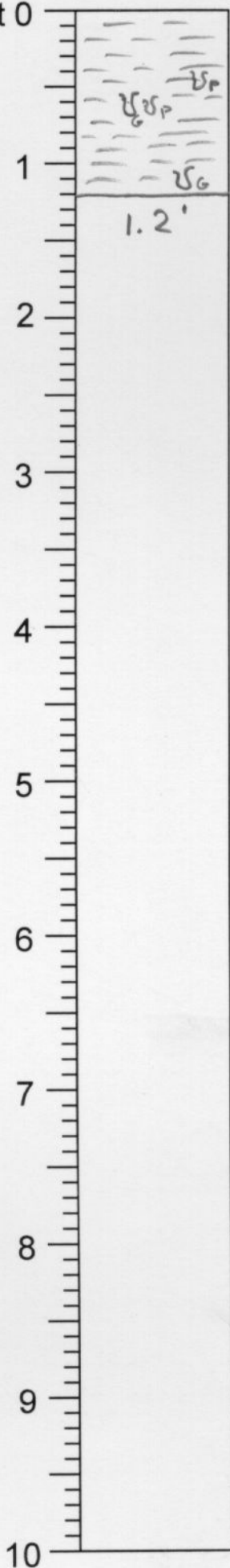
Date

5/26/00

Described by

PPMEL/JVB

Feet 0



CLAY; Very slightly silty, micaceous;
faint lamination gives light color-
banding; small shells/fragments;
2 large subhoriz burrows, 15-20 mm
dia, glauconite filled; one smaller
silt-filled (w/pyrite) burrow;
glauc avg finegrained, incl. very
dark green grains & some brighter green
grains; foraminifera; dark spots (org?)
Very dark gray 2.5Y 3/1

**Qj32-27
(174AX BB)**

Core #

102

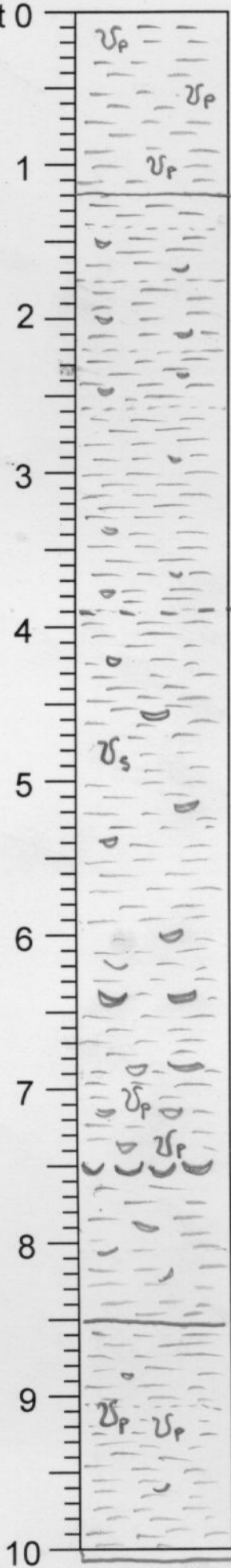
Start Depth

560

Stop Depth

570

Feet 0



CLAY; very silty; stiff, hard, holds together well in washing; finely laminated in lamina sets that give faint color banding pyrite-silt filled burrows; mica, but less than above very dark gray (2.5Y 3/1); small shell fragments & forams

CLAY; silty; stiff, but softer & "flakier" than above; finely laminated, but significant differences in induration between laminae (alt. clay & silty laminae?) - clear groupings in lamina sets; two bracketed zones slightly harder & more uniform (even fractured @ top & bottom in coring) foraminifera, some mica, small shells

CLAY; as above, but shellier, slightly more burrowed, shells larger; burrows incl sand-filled & pyrite-silt-filled

sand-filled burrow, ind. rounded-subround grs up to med. gr., & finer glauc

pyrite-silt-filled burrow
shelly zone

CLAY, very silty & in places sand grains up to med gr.; finely micaceous (occ. vcrs)

finely dispersed shell fragments, c. forams clearly laminated, as noted for core above dark olive gray 5Y 3/2

Date

5/26/00

Described by

PPM/L/JVB

10.05'

Qj32-27
(174AX BB)

Core #

103

Start Depth

570

Stop Depth

573.5

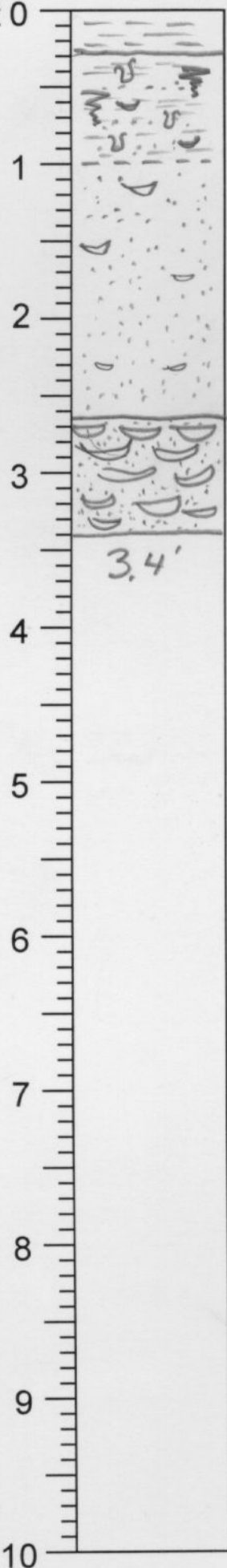
Date

5/26/00

Described by

PPMCL / JVB

Feet 0



CLAY; silty, finely micaceous, finely laminated w/ lamina sets giving banding; olive gray 5Y3/2 SAND, med-f, very muddy, and CLAY, soft, some shell, sandy, all churned (some clay may be beds, some may be in burrows) - transitional w/ underlying unit

SAND, med-f, very muddy, cohesive but soft, common shells & shell fragments; sand mod. sorted, grains rnd (esp f-m); sbrnd, & sbrng (esp. scattered crs & crsr); some glauc? grains, very rare garnet?; maybe some burrows (? faint) dark greenish gray (OLEY 1 10Y3/1)

SHELL BED; shells & shell fragments ~70% volume of this interval; shells up to 40-50 mm across; matrix extremely poorly sorted mix of sand, f-vcrs-granule, ind. gtz & occ glauc, plus subangular - sbrnd pebbles up to 20 cm across. Not well-cemented.

shells appear to be mostly bivalves with perhaps barnacles?; somewhat weathered pebbles a gray, fine grained lithology (does not fizz)

**Qj32-27
(174AX BB)**

Core #

104

Start Depth

573.5

Stop Depth

580

up @ 3:35

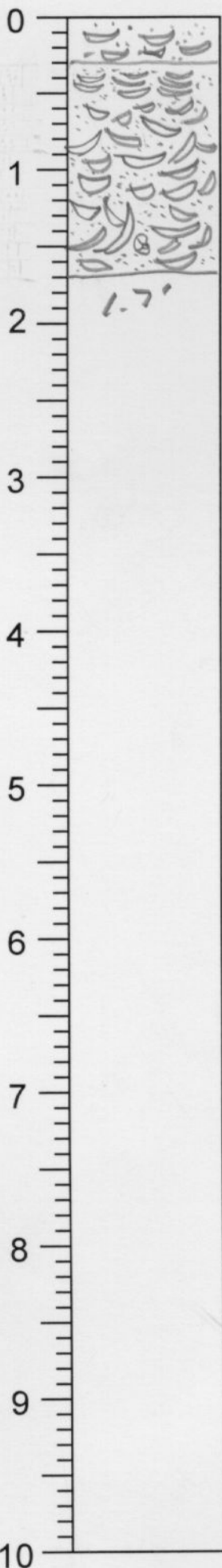
Date

5/26/00

Described by

PPM/LNB

Feet 0



SHELL BED - as in above core - slightly weather shells, matrix not strongly cemented sandy.

LIMESTONE; strongly cemented shell bed, ← shell material weathered/partially removed, leaving some shells punky & stemkeras; shells include various bivalves (incl. oyster & pectinid), small gastropods (as. sternatens). Lots of fragments; shells not in life position, layered in beds. Matrix: poor-mod srtg, m/ gtz sand (+ some glauc), gtz f- crs grained; calcite cement; highly indurated; matrix +/- greenish-gray (GLEY 1 10Y 6/1) in upper 0.2', shells are "nested" (= sandy molluscan skeletal packstone)

**Qj32-27
(174AX BB)**

Core #

105

Start Depth

580

Stop Depth

581

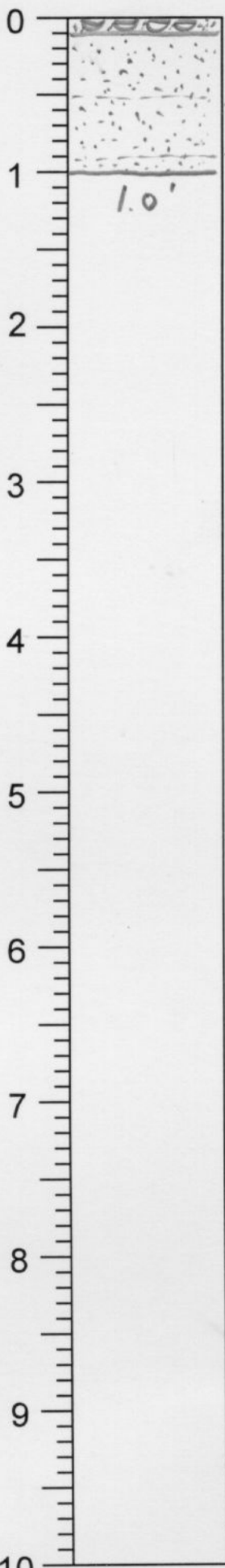
Date

5/26/00

Described by

FDNCK/JVB

Feet 0



LIMESTONE; sandy molluscan packstone (as above)
fallen? in place?

SAND; fine to med, slightly clayey/silty (gives
cohesiveness); some grains up to granule size;
granule-size shell fragments common;
few dark plant debris/lignite fragments;
most sand is qtz, sbmd-rnd, w/larger
ones sbang; some dark very-fine grains
(ohm??). Middle part (in bracket,
0.5-0.9') a jumble from coring/washing

10

Qj32-27
(174AX BB)

Core #

106

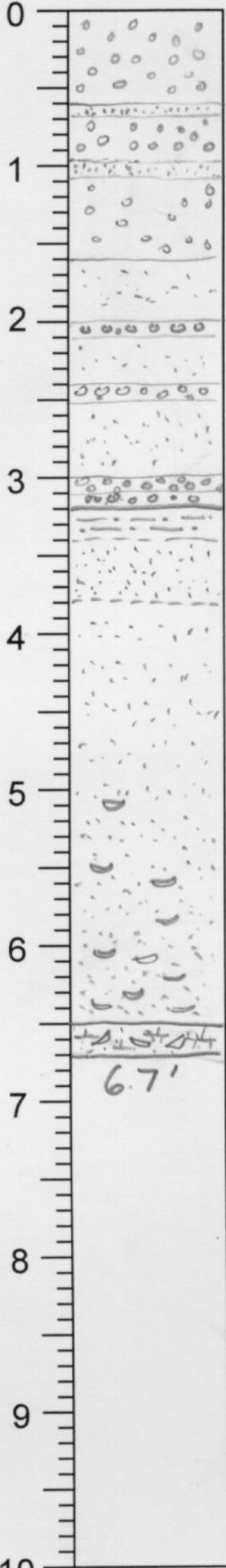
Start Depth

581

Stop Depth

588

Feet 0



, granular,
 CONGLOMERATE, interbedded with SAND
 - congl. incl. shell frags up to 20cm, white block;
 quartz/quartzite; lithic clasts of calcite-
 cemented gtz sst; dark grains (phosphate?).
 in muddy sand matrix, which is poorly
 sorted w/ fine to vrs to granule-sized
 grains; larger ones ang-subang; small sbrnd-rnd
 - sand is med-fine, mod sorted,
 sbrnd(rnd), very muddy/sticky,
 in the lower beds includes a
 component of vrs grains
 matrix is gray (GLEY 1 NG/)

(dark gray N4/)
 SILT, muddy w/ some fine sd, laminated
 nr top passing down ward into
 SAND; upper part (3.4-3.8') soft &
 muddy & fg, passing downward
 into silty vf sand w/ color bands/
 lamination - all micaceous -
 at 5' downward, increasing number
 of shells, and increasing amount
 & coarseness of sand (w/ scattered
 vrs e granule-size grains)
 shells all weathered, whitish
 includes dark grains (phosphate?)
 Silty sand is dark greenish gray
 (GLEY 1, 10Y3/1)

SAND, calcite cemented, poorly sorted
 fine to med (some crs-vrs), some shell
 fragments - indurated

6.7'

Date

5/26/00

Described by

FRANK/JVB

10

**Qj32-27
(174AX BB)**

Core #

107

Start Depth

588

Stop Depth

593

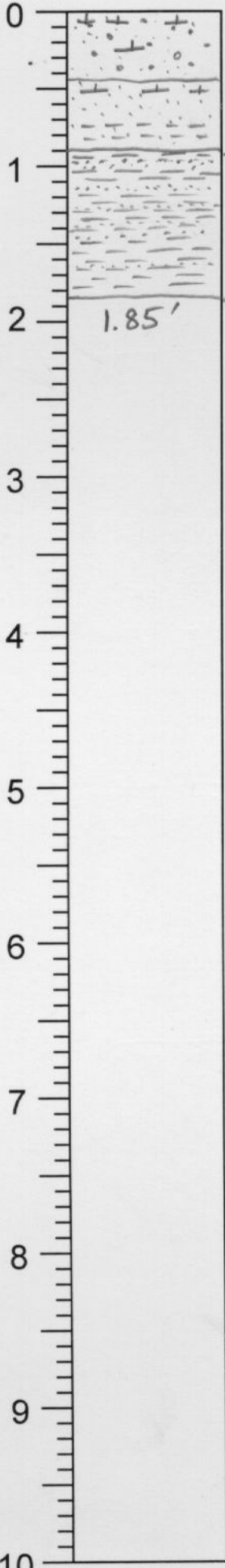
Date

5/27/00

Described by

PPMCL/JVB

Feet 0



SAND - in place or trash? very poorly sorted in places where soft, most med, but ind. f-granule size - also includes zones/clasts? of cemented med gr sand; granule fraction incl. abd shell frags dark greenish gray (SGY 4/1 CLAY 1)

SAND, med-f, well srted, ~1% ohm, otherwise gtz, slightly clayey cemented at top, thin 1-2 mm clay laminae ~15 mm apart, clay is soft & sticky, silt

CLAY with interbedded SAND; @ top, clay laminae 3-4 mm thick in couplet w/ sand lams 1-2 mm thick; with clay laminae becoming thicker downward & couplet w/ sand, ^{total} up to 40 mm; some of clay-sand contacts irregular due to burrowing; sand f (-med), well sorted, sbrng-sbrnd (not as well rounded as higher in section); scattered shell fragments -
Env: inner neritic shelfal setting?

**Qj32-27
(174AX BB)**

Core #

108

Start Depth

593

Stop Depth

600

Date

5/27/00

Described by

PPMCL/JVB

Feet 0



SAND, f (some m, crs), mod-well sorted, sbrng-sbrnd, silty/clayey, mottled by extensive burrowing; clay mixed into burrowed intervals (disrupted clay laminated, esp. from 0.3-0.95)

block shell fragment ^{than above}
SAND, f (more m, crs grains), mod-well sorted, sbrng-sbrnd, silty/clayey matrix, but w/ much less clay lamination/burrowing than above; more shells; burrowing, esp. in upper part

black shell frags (large)
clayier zone
thinner weathered shells

SAND, m (some zones w/ crs grains), mod sorting, shell fragments abnd, incl. larger frags up (poss. entire shell, before cored) to 40 mm (pectinid?) - most shells material is dark; sand becomes progressively muddier below 6.2' finer, and less shelly

7.15'

10

**Qj32-27
(174AX BB)**

Core #

109

Start Depth

600

Stop Depth

610

*
Sr alert!

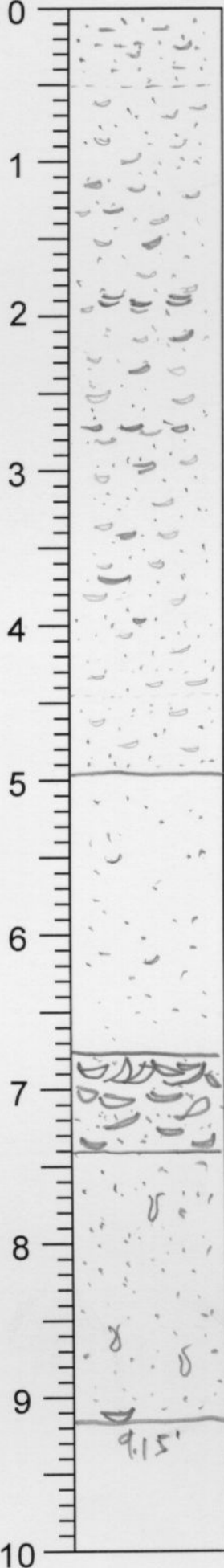
Date

5/27/00

Described by

PPMCL

Feet 0



sband-sband

SAND; f-m, occ crs grns, mod sortd; silty & very slightly clayey matrix (cohesive) in upper 0.5', less so below; below that, c-abd shells & shell frags, mostly bivalves, mostly white & partially weathered, some (phosph'd?) dark to black; sand soft, muddy, easily eroded in washing; heavily bioturbated, giving uneven mud distribution; see conc. some mud-filled burrows (some indistinct) and a few places w/ burrow-disrupted laminated clay; pinkish orange grains (stained gtz, crs); w greenish gray @ 1.8', concent. nested shells

SAND; f-m, mod-well sorted; sband-sband; slightly silty; scattered shell fragments (some light, some dark; light ones ry weathered) homogenous, no clear sed structures or burrows, r. mica; w greenish gray

SAND w/ abd shells; in upper part shell-supported; sand m(-f), mod sortd, sband-sband; shell fragments thick (up to 3 mm), packed together like ar. growth area but broken up, fall apart when pull out; sand incl. some crs-vers grains; some of shell weathered, but much of it indurated/hard

SAND; m(-f), mod well sorted, sband-sband, scattered very small shell fragments (sand size); fairly homogenous bed with evidence of bioturbation (slightly uneven surface from washing contrasts burrows & sand) - shell @ bottom: w greenish gray

all outer-inner neritic (20-30m) to middle?

**Qj32-27
(174AX BB)**

Core #

110

Start Depth

610

Stop Depth

615

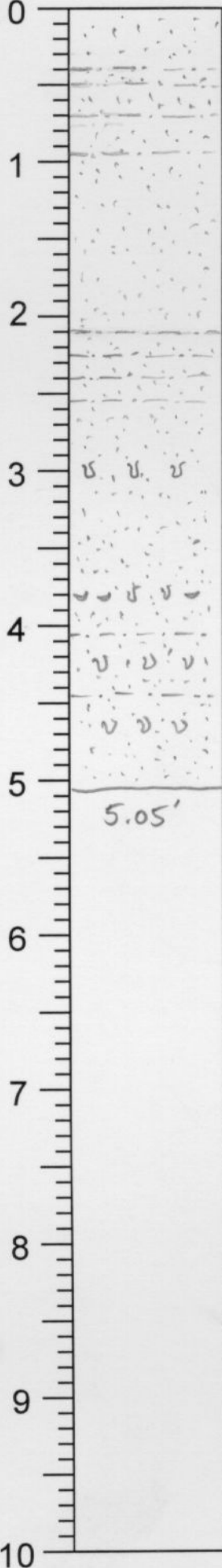
Date

5/27/00

Described by

PPM/LJVB

Feet 0



SAND; m, well srted, sbrnd-sband,
mostly qtz, ~1% olm, r. glauc & garnet;
-A/B Soft, clean, porous (drilling mud infiltrated
-A/B outer part of core); common fine (med sand
-A/B size) thin shell frags dispersed thru sand
below (2-3%?); ~greenish gray (NGLEY 5GY 5/1)
thin Silty sand laminae at several points
in interval, gen. 1-2 mm thick, sand is
fine

silt lam ~2 mm
- A/A
- 4/A
- A/A
- burrows, mud-lined (vert + horiz)
- fine shell debris, burrows?
- silt
- silt

inner neritic? clean sand.
upper shoreface?

10

Qj32-27
(174AX BB)

Core #

111

Start Depth

615

Stop Depth

616.7

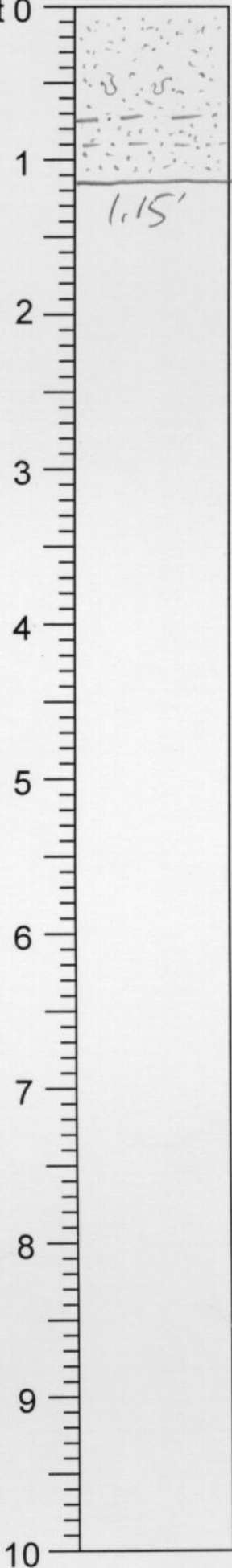
Date

5/27/00

Described by

PPMCL/JVB

Feet 0



SAND; same as core 110; m, well sorted gtz sand
w/ ~1% ohm; soft, clean, porous, Med-³/₈ sand
size shell frags; thin, more cohesive silt beds;
-silt greenish grey (~ GLEY / SGY 5/1)
-silt

more upper shoreface?

10

Qj32-27
(174AX BB)

Core #

112

Start Depth

616.7

Stop Depth

620

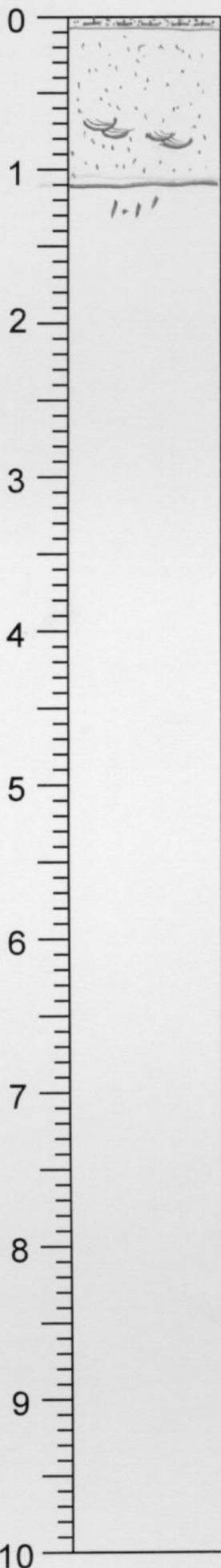
Date

5/27/00

Described by

PPM^cL/JVB

Feet 0



SAND; cemented, indurated; calcite cement;
Sand med gr. mod-well sorted; grains subround-sbony; ~1% ohm; contains shell fragments

SAND; unconsolidated, soft & wet; med. (-f) grains up to crs nr top; lamination evident due to slight variation in silt content; lamination irregular in general due prob to coring factors, but several zones (esp @ ~.75') where convergence & termination of laminae suggest CROSS-lamination ~1% ohm; greenish gray (GLEY 1 5G4 5/1)

10

**Qj32-27
(174AX BB)**

Core #

113

Start Depth

620'

Stop Depth

630'

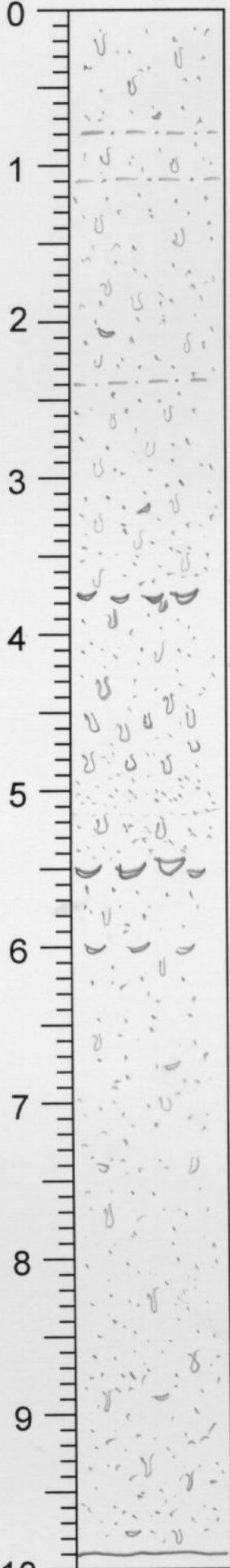
Date

5/27/00

Described by

PPMCL/JVB

Feet 0



SAND; f-m @ top (above ~2'), transitioning to m w/ some crs grains below; s brnd-s bang; mod-well sorted; scattered shell fragments mostly in sand range but larger shell fragments @ 3.75', 5.5', 6' (Mercenaria-type?); sand includes ~21% small darks (ohm?) & perhaps fainter lams in a few lower places (~5.5?); extensive burrowing, some evident as disruptions of lamination, some as mud-lined burrows

dark greenish gray (SGY 4/1)

nice!
burrows, clay-lined - more shell fragments too

10

9.9'

**Qj32-27
(174AX BB)**

Core #

114

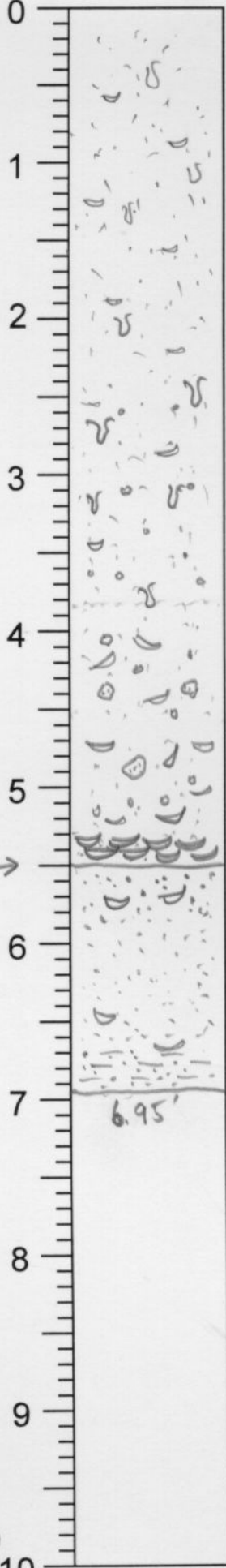
Start Depth

630'

Stop Depth

638'

Feet 0



SAND; med; mod-well srt; sbrnd-sbang; common shell fragments up to 10 mm, down to sand size; mostly gtz, incl. smaller dark grains (ohm?) and larger sbang ones (prob dark, phosphatized? shell fragments); lower down, more of the larger shell (upto 10mm thick) fragments gives coarser texture; also includes 10-30 mm clasts/concretions(?) of calcite cemented sand lower down, incr. common toward base concentration of shells @ bottom, shells are thick. Bioturbation appears extensive throughout. due to irreg/discant nature of siltier zones
dark greenish gray (5GY 4/1 GLEY1)

almost rubblely texture due to vry abd broken thick shells

contact:
silty?

SAND, med-f, mod-well srt, sbrnd-sbang, Silty (e incr. silty downward), some dark (ohm?) grains; bioturbated; incl. thin shells (in contrast w/ thick ones above) & shell frags, chalky/leached
dark greenish gray (5GY 3/1 GLEY1)

Date

5/27/00

Described by

TPMCL/JVB

10

**Qj32-27
(174AX BB)**

Core #

115

Start Depth

638'

Stop Depth

645'

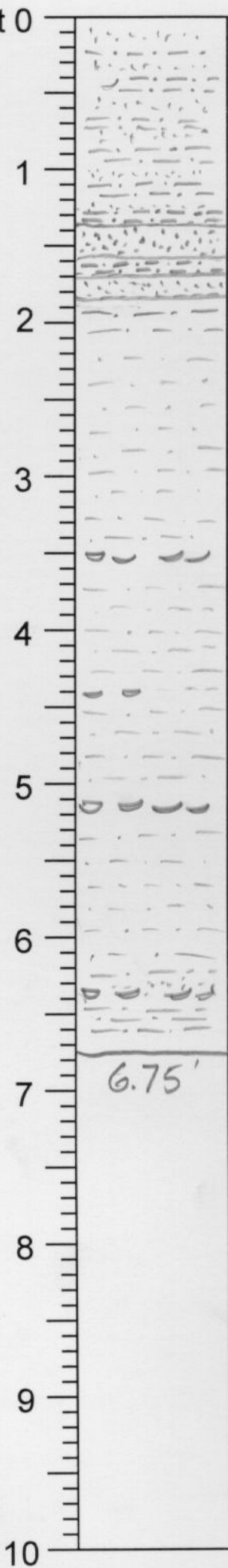
Date

5/27/00

Described by

PPM^cL/JVB

Feet 0



SILT & interbedded SAND

*Sand is generally fine (med in places); contains shell debris from sand size to 10mm, dispersed thru sd w/ some conc. zone; shells mostly lighter, some dark (phos?); gtz sand is gen mod-well sorted (esp where fine), sbrnd-sbrng; sands are soft, unconsolidate;

*silt is vry clayey, soft;

other than 2 noted sand beds, sand gen 1-5 mm lam; in upper part, silt is ~ equal in volume & sim. thin laminated; in lower part (below 1.5'), the silt is probably ~75% of the thickness

5 GY 4/ DK Greenish grey

6.75'

8

9

10

**Qj32-27
(174AX BB)**

Core #

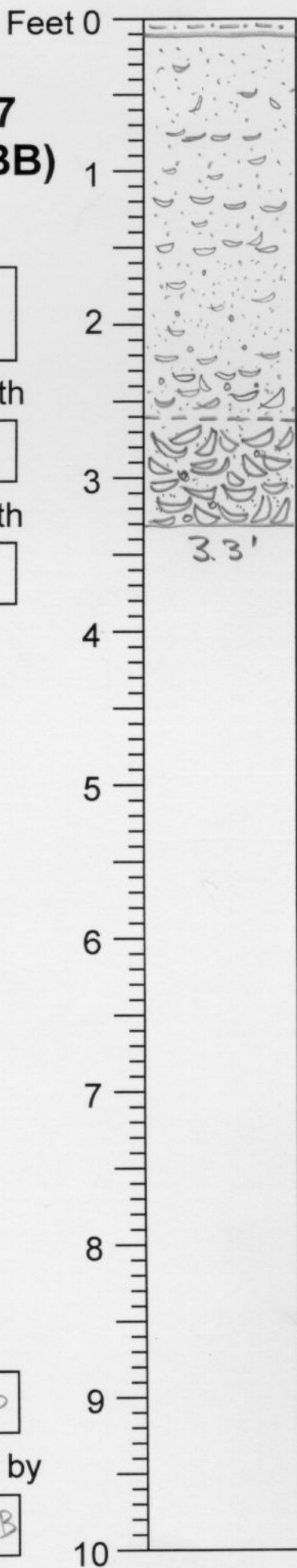
116

Start Depth

645

Stop Depth

649



SILT; upper soft interval maybe trash (?) from 0-0.07'
then clearly laminated silt from 0.07-0.1'
Upper part has some sand and shell debris

SAND; very silty
lower; overall interval increases shell
content & grain size downward, from
10-20% shell nr top to ~50% nr
bottom; gtz sband (-sband);
larger grains include vylithified siltstone
pebbles up to 7mm, gtz granules to 4mm, (white, pink)
vly round deep black vcrs grain (phos?) and
the most abd grain type - shell fragments;
some phosphate (?) dark-brn to black grains,
sband-rnd, some may be broken shell
phosphatized shells; shells include one
@ 0.95' w/ mother-of-pearl sheen (!!);
mostly bivalves, include thin-shelled forms
that are less broken-up, and fragments
of thick-shelled forms; thin-shelled forms
often in planar parallel alignment
w/ trend of faint lamination; un cemented
some of shell fairly weathered (base transitional)

SHELL BED; very sandy, ~75% shells,
uncemented; silty; shells are crumbly,
weathered; black granule to small pebble
sized grains (phosphate?) common,
some other pebbles/granules as above;
gtz sand, med as above
in matrix

inner neritic shell beds

Date

5/28/00

Described by

PRJML/JVB

**Qj32-27
(174AX BB)**

Core #

117

Start Depth

649

Stop Depth

656'

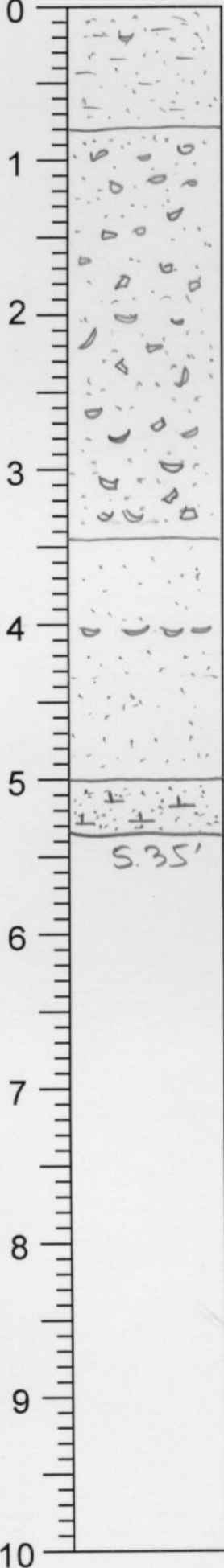
Date

5/28/00

Described by

PPMFL/JVB

Feet 0



SAND; very clayey & silty; sand f-m, sbang-sbrnd; clay/silt makes very soft & sticky; sand mostly &tz, some small (f) v. dark grains (ohm?); shells, many thin & weathered chalky, some dark (phosphated?); ind. bivalves & echinoderm frags (less shells in lower part); dark greenish gray (6LEY1, 10Y4/1)

SAND; mostly med, but w/ common crs grains; sbang-sbrnd; mod sort abd shell debris, 20-30% vol., ~ equal light & dark shell material, ang-sbang; includes bivalves (thick-shelled; lighter ones are thicker shells), echinoderm plates; small shiny black phosphate nodule/large grain (~2 mm); some large granule-size &tz dark greenish gray (6LEY1, 10Y4/1)

SAND; med (-f), w/crs sand-size shell frags; sand mod-well sorted, sbang-sbrnd (some well rnd), variably silty giving some banding of slightly contrasting cohesive ness; conc. of weathered thin shells ~ 4'; more disseminated fine thin shell debris below 4'; soft, uncemented (6LEY1, 10Y4/1) dark greenish gray

SAND; calcite cemented hard (although more crumbly nr. top); very shelly, very silty; sand is med gr. sbang-sbrnd dark greenish gray (6LEY 2, 10Y4/2)

Qj32-27
(174AX BB)

Core #

118

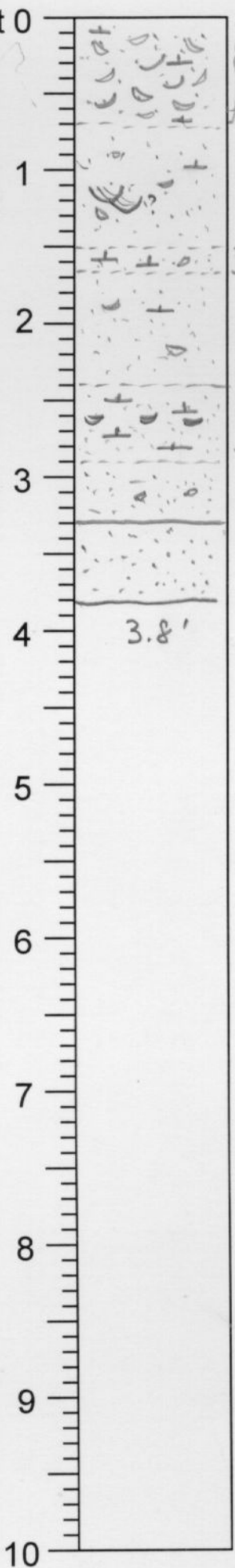
Start Depth

656

Stop Depth

660

Feet 0



vy hard SAND; med gr, w/ some grains up to vers;
vy shelly; ranges from hard, firmly cemented,
to loosely/crumblly cemented; areas with
hard cement do not freeze strongly w/ HCl on surf but
does if crushed; shell content up to ~75%
in top interval, almost a shell bed, with
Some thick (> 1mm) shells and some
sterterns; mottled light (light gray
GLEY 1 N7/) to olive (olive gray GLEY 2)
to dark (dark gray GLEY 2 N4/)
black/dark (phosphat) grains (prob shell
frags); some more clayey zones (clay balls?);
poss cross-strat @ 1.2-1.4'
SAND: med-grs; shang (esp crs) to stbrnd; clean
(not silty/clayey like above); abd dark grains
(prob sand size phosphatized shell frags & phos grains);
contains shell frags up to 10mm dia, gen. thick
dark (dark gray GLEY 1 N4/ to very
dark gray GLEY 1 N3/)

* NOTE: smells like oil/swamp gas
(even like gasoline @ first) -
comes out strongly where core
cracks, dissipates some
with time - likely high sulfide
content

Date

5/28/00

Described by

PPMCL/JVB

10

Qj32-27
(174AX BB)*1

Core #

119

Start Depth

660

Stop Depth

670

Date

5/28/00

Described by

PPNCL/JVB

Feet 0

crumbly

2

3

4

5

6

7

8

9

10

2.3'

SAND; weakly/crumbly cemented; med gr w/
shell fragments; sbnd-sbang; mod-well srted
gray (GLE41 N6/)

SAND; softer, darker; med gr w/ some
crs-vcrs; mod srted; sbnd-sbang; frag shell frags
up to 10 mm dia; slightly silty; dark gray (GLE42 N4/)

SAND; cemented, hard; whitish cement;
medium gr.; mod-well sorted; some dark
(phos?) grains; olive (gray 5Y 6/1)
to gray (GLE41 N6/)

SAND; soft, dark; mud-filled burrow (5 mm dia,
greenish silty fill (cut @ top & smells sulfur)
common shell frags (<5mm); 1-2% dark
grains (phosphat?); pass mud lam @ top
(to soft to be sure), muddys some of it,
but some is fairly clean; med gr;
sbang-sbrnd; mod srtg (+ some ang. grains)
dark gray (GLE42 N4/)

SAND; very hard, cemented (w/white cement;
variable induration in interval); med (-fine)
gtz sand, sbnd-sbang, mod srtg;
~2% dark grains; a few gtz grains to
crs; slightly coarser in middle, where
contains more shell debris.
light gray (GLE41 N7/) to gray (GLE42 N6/)

SAND; med, mod-well srted, sbnd,
silty, w/ sand-size shell frags;
~1% dark grains
dark greenish gray (GLE41 10Y 3/1)

**Qj32-27
(174AX BB)**

Core #

120

Start Depth

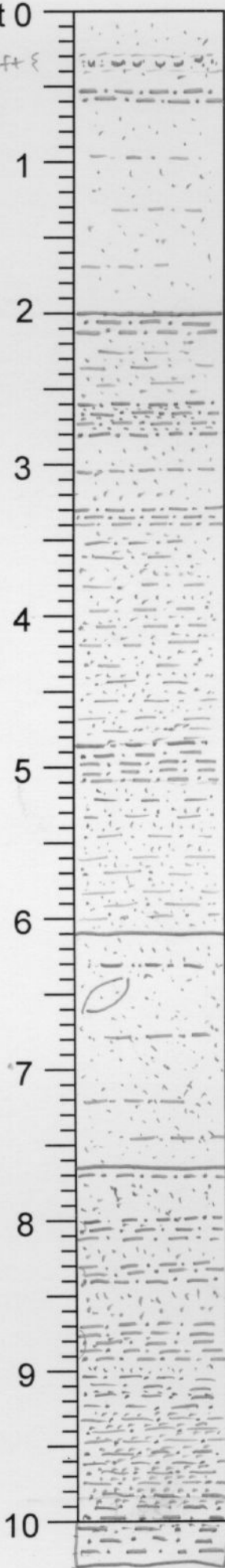
670

Stop Depth

680

Feet 0

soft



SAND with thin (up to 1-2 mm) SILT laminae in places. Sand med, contains small very thin walled shells & dispersed sand size frags (esp. in upper 1.5'; conc. @ 0.3-0.4')
silt < 10% of interval thickness, soft, sticky; laminae of silts @ 0.5' is inclined dark greenish gray (GLEW 104311)

↑ more sand, fewer silt laminae (~10%)

↓ more silt laminae (~50%)

SAND, with thin ^{to thick} (up to 3-4 mm) SILT laminae Sand fine (some med), scattered sand-size very thin shell frags/flakes; silt makes up ~50% of strat thickness, soft, sticky gently inclined lam & flaser (?) bedding @ 2.3', 3.15', 5.0'

inclined lam (@ diff orientations) thru most of interval

dark greenish gray (GLEW 104311)

mostly silt

?

SAND, with thin (1-2 mm) SILT laminae Sand & silt describes as above w/ thin shelled bivalve color A/A

thin to thick

SAND with ^{thin to thick} SILT laminae & a silt bed @ base descrip'n as for 2.0-6.1' interval color A/A

?

10.3' TOTAL

Date

5/28/00

Described by

PPMCL/JVB

**Qj32-27
(174AX BB)**

Core #

121

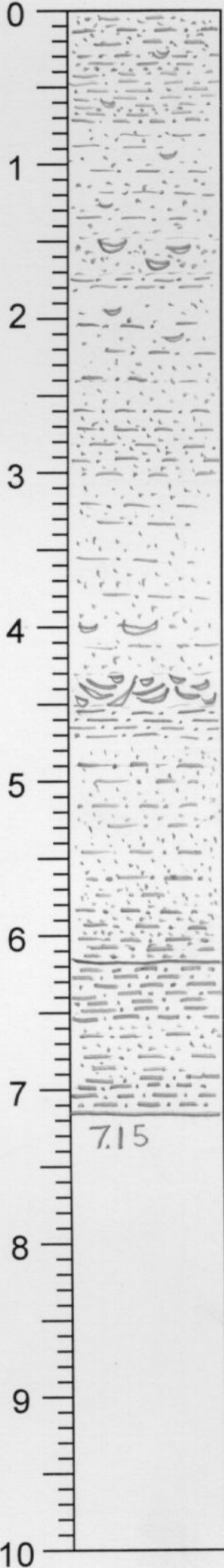
Start Depth

680

Stop Depth

690'

Feet 0



SAND, fine, with SILT laminae
Sand fine, well sorted, sub-angular, some
fine shell debris; soft;
interlaminated silt us. thin, some thick; soft, some
lams not as sticky as in core 120;
contains thin-shelled bivalves (w/very weak shells)
up to 30 mm dia.; silt laminae
comprise ~ 40% thickness, in some
places more, in some less.
Sand includes a few dark shell frags.
dark greenish gray sand (GLE 1 104 4/1.)
olive gray silt (54 4/2)

SILT; indur thin-thick lams and ry thin-thin beds
w/ thin lams; soft, sticky; some interlaminated
& interbedded fine sand w/ a few dark (phos?)
shell fragments. Silts somewhat clayey.
Basal silt is hard, stiff but cut-able
color as above

Date

5/28/00

Described by

PPMCL/JVB

10

**Qj32-27
(174AX BB)**

Core #

122

Start Depth

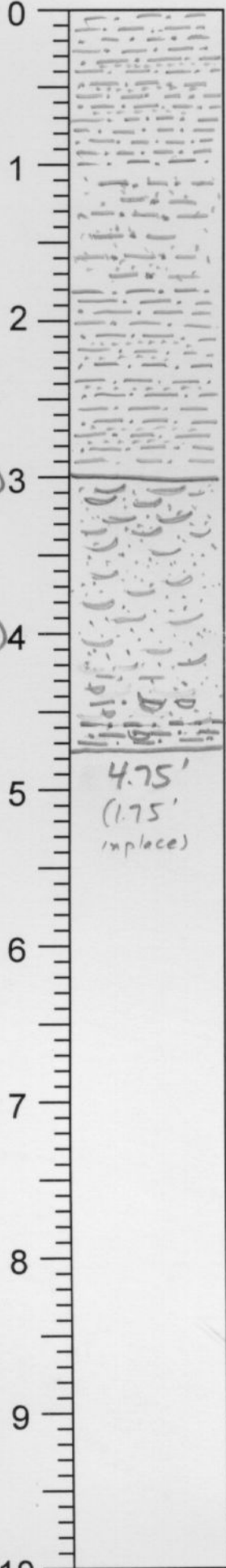
690*

Stop Depth

692

* upper 3' of
this core,
is lower 3'
of prev. core

Feet 0



SILT, clayey, and SAND, fine.

Slightly jumbled but basically coherent core from base of overlying interval (680-690). Hard to describe in detail. Silt is very clayey, sticky, soft. Sand is fine, mod-add to bottom previous core] well sortd, sbang-sbrnd interval contains dispersed shell debris throughout piece of scallop shell near top

same surf. as ~ 690 @ Camp Barnes well

-(redatum as 690', not 693') - PSB?

SAND; medium, weakly cemented (can be crumbled), sand incl. gtz grains sbrnd-sbang, mod sortg; abd shell fragments, mostly aligned flat, 2/3 light colored, 1/3 dark (phosphatized?); small (f) well-rnd black grains (phosphate?); cement is whitish and does not appear to fizz easily unless crumbled (calcite?) shells make up ~ 2/3 of volume in upper part of interval, ~ 1/3 in lower. Lower part is silty (esp. lower 0.15'). Shells more broken in upper part, less so in lower.

4.75'
(1.75'
in place)

Date

5/28/09

Described by

PPMCL/JVB

**Qj32-27
(174AX BB)**

Core #

123

Start Depth

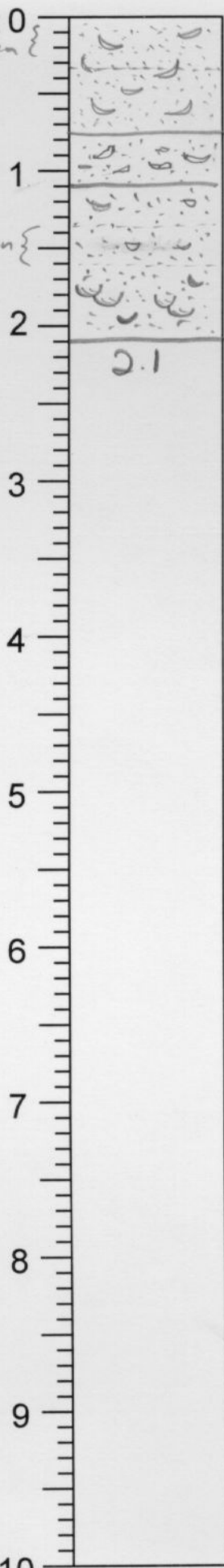
692

Stop Depth

700

Feet 0

broken



SAND; f-med, sbrnd-sbang, mod-well sorted
hard cemented (strong fizz only by crushing,
part of it?), whitish cement - carbonate
abd shells, ^(20-30% vol?) mostly bivalves, fairly thin-shelled,
mostly whitish, some dark, some dissolved

SAND; f-med, sbrnd-sbang; mod-well
sorted; soft, unconsolidated, compacted;
abd shell fragments. (incl. pectinid),
~3/4 light shell frags, ~1/4 dark *
Very dark gray (5Y 3/1)

SAND - some as @ top core, but less
shelly (10-15% shells). bedding
inclined in lower part, (aminac. ric.
in inclination upward (= trough x-bed)
some dark phosphate.
Color for this at top on fresh surface:
dark greenish gray (6.5Y 3/1)

* good shell candidates
for Sr

Date

5/28/00

Described by

PPML/JVB

10

**Qj32-27
(174AX BB)**

Core #

124

Start Depth

700

Stop Depth

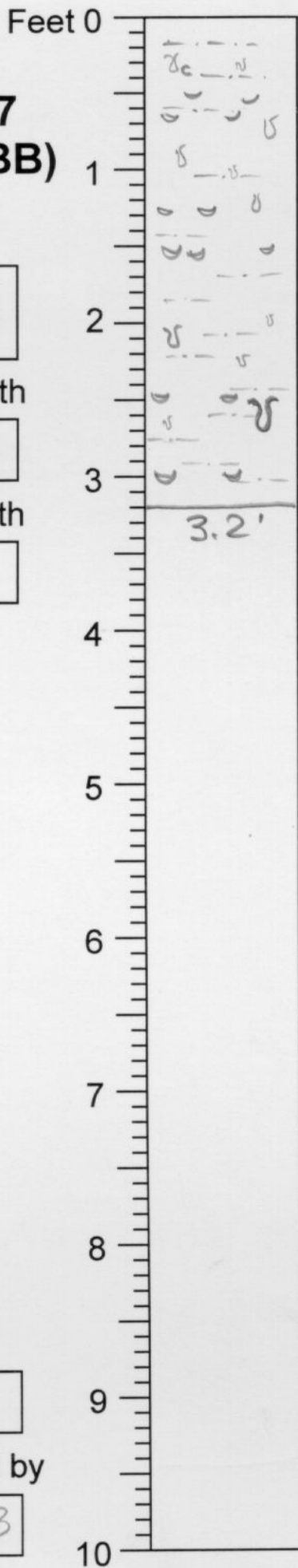
710

Date

5/28/00

Described by

PPM/L/JVB



SAND; vf-f; mod-well sorted, s bang-s brnd,
silty, slightly clayey in places; interbedded silt lens
heavily bioturbated; burrow fill is muddier
sand mostly gtz, some glauc in v fine frac dom
faint lamination, w/ siltier/clayier intervals
standing out (1.2-1.3 good example)

Turitella, bivalves; shell fragments are
light only - no phosphatized darker
shell frags/shells

burrows 7-20 mm dia; subhorizontal to
subvertical; filled w/ diff materials,
a few lined burrows too
upper 1' more sand dominated
1'-2.2' more clay content
2.2-3.2' sandier

colors: very dark gray (5Y 3/1) @ top
dark greenish gray (6.5Y 1 10Y 3/1)
@ base

Uc = clay lined

burrow fills:
very dark grayish brown (2.5Y 3/2)
dark greenish gray (6.5Y 1 10Y 4/1)

10

Qj32-27
(174AX BB)

Core #

125

Start Depth

710

Stop Depth

720

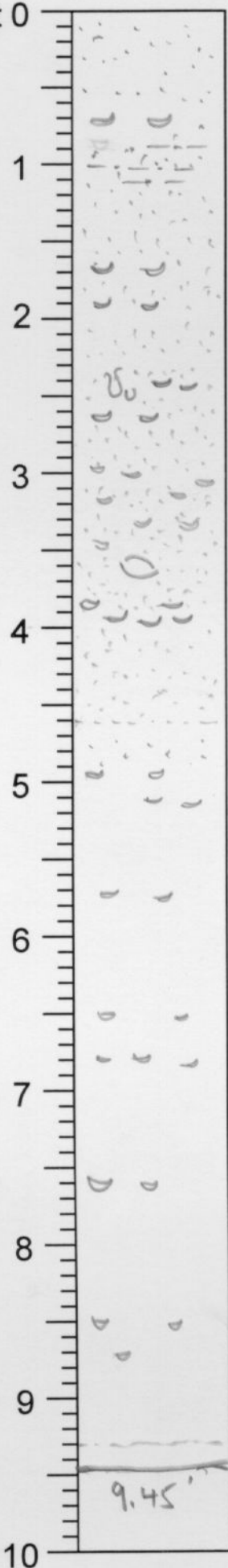
Date

5/28/00

Described by

PPM/L/JVB

Feet 0



SAND; f, silty, soft but somewhat cohesive;
qtz sand is med sorted, sbang (ang) - sbrnd.
some indistinct silt laminae, w/ disruption
by burrowing (incl. @ U-shaped burrow
@ 2.4); shelly w/ all shells lighter,
incl. thin & thick bivalve shells, turritellid, scaphopod
gastropods, echinoderm plate frags - incl.
white shells (esp gastros) & fragments scaphopods
Sand incl. glauc (gen w/)

zones richer in shells @ several intervals
(incl. shells, not shell accum)

less shelly lower in core,
slightly more homogeneous
a bit siltier nr top

>50mm dia shell (vry thin)

Color: dark greenish gray (GREY 56Y 3/1)
w/ slightly browner silt

10

**Qj32-27
(174AX BB)**

Core #

126

Start Depth

720

Stop Depth

726

8:25

8:55

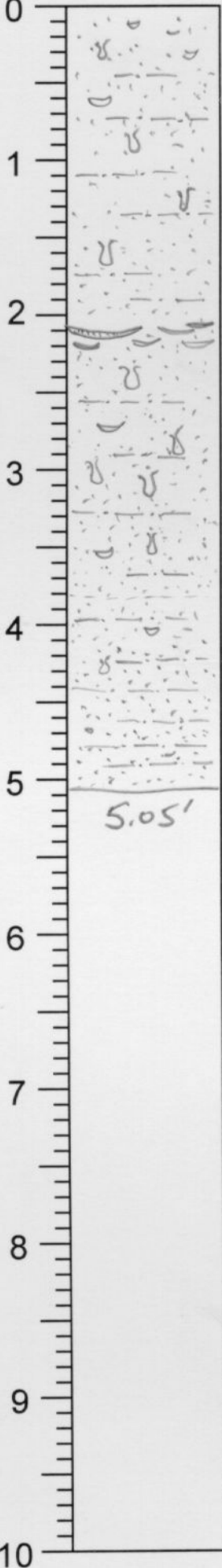
Date

5/29/60

Described by

PENCE/NB

Feet 0



SAND; v-f; silty; shaly (shnd-ang);
med-well sorted; mostly gtz; 1-2%
glau (v-f-silt size); laminated w/ abnd
bioturbation; slight varies in silt
content shows lams; some inclined lams
indic x-bedding; incl. lensing of silts(?) (= flaser?); trace mica?

shells mostly bivalves, thin, light colored,
also gastropods
@ 2.1', a thick (3 mm) ^{very} fibrous, very flat
shell (fizzed, but not vigorously), 40mm long
@ 2.2' a thin flat bivalve w/ mother of
pearl luster
shells from 2.1-2.2 are aligned flat, some
amber colored

otherwise, scattered shell frags in core

lower shoreface?

less bioturbated from ~3.8' down ward,
silt laminations better preserved

color dark greenish gray (GLEY 1 5G4/1)

flat shells

sandy layer

5.05'

Qj32-27
(174AX BB)

Core #

127

Start Depth

726

Stop Depth

730

9:26

9:50

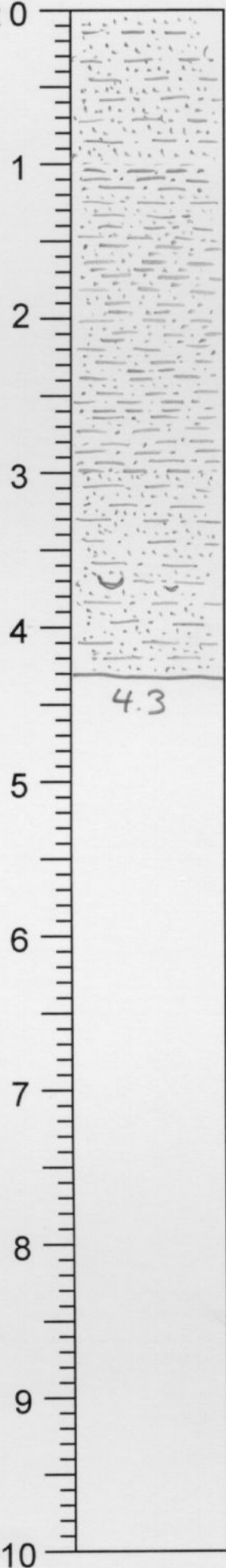
Date

5/29/00

Described by

PPMCL/JVB

Feet 0



SAND w/ interlaminated SILT,
~50/50.

- Sand vf-f, silty matrix, gtz w/ 1-2% glauca trace mica, s bang, well sorted
- silts somewhat sandy (vf), slightly clayey & slightly sticky
- irregularly laminated due to signif bioturbation, w/ burrows more evident in sands, mostly subhorizontal
- about 50/50 sand & silt beds, w/ silts more predom from 1-3', sands above & below that. In sandier zones, sands thickly laminated to very thinly bedded (10-15mm); in silty zone, sand thin to thickly laminated (up to 10mm) arranged in apparent sets up to 25mm
- rare shells (~3.7')

dark greenish-gray (GLEY 10 Y 4/1)

Qj32-27
(174AX BB)

Core #

128

Start Depth

730

Stop Depth

740

up 10:45

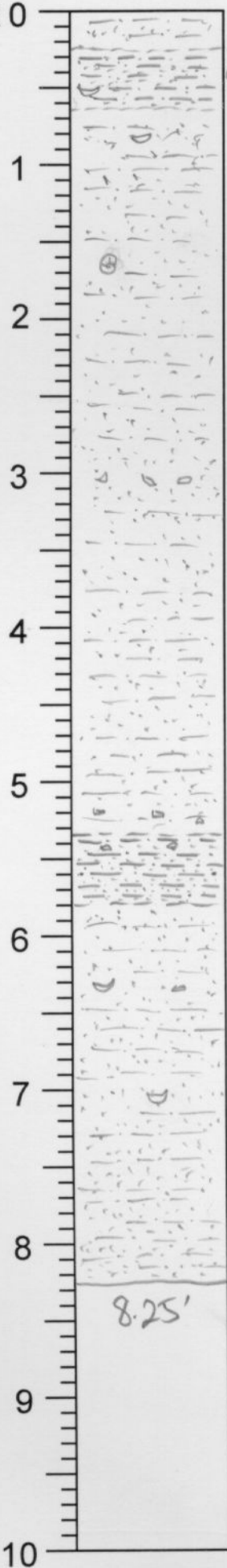
Date

5/29/00

Described by

PRMCL/JVB

Feet 0



SAND & SILT, interlaminated

Sand: vf-f; well sorted; shaly; mostly gtz, vf glauc (1-2%), trace mica, slightly silty (more micaceous than above)

Silt: clayey, sandy (vf), soft, sticky

bedding: lamina sets of silt-sand laminae, up to 15 mm, are most common

Overall, more sand than silt; a few more silty intervals; some x-lamination evident

bioturbated; appears subhorizontal

shells incl. bivalves, gastropods, Scaphrod, scattered/occasional, some fragments also

dark greenish gray (5GY 3/1 GUEY)

> 80% clayey silt

8.25'

**Qj32-27
(174AX BB)**

Core #

129

Start Depth

740

Stop Depth

750

1110

1150

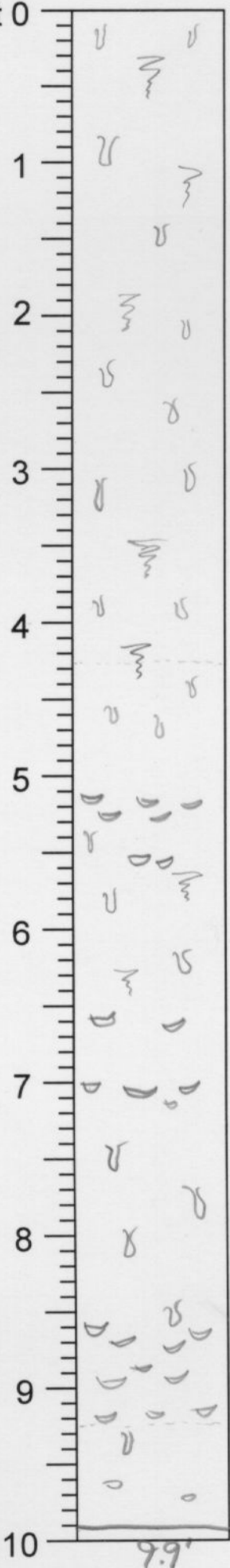
Date

5/29/00

Described by

PRMCL/JVB

Feet 0



SAND with some interlaminated SILT

sand: v.f, mod-well srt'd, sbang, mostly
gtz, 1-2% glauc, mica, silty

silt: slightly clayey & sandy

bedding: mostly sand. silt lam. are indistinct
due to extensive burrowing

Bottom 0.4' of core has more clay content & slightly
Bottom ~1' has coarser (f) glauc more
consolid

shells: bivalves, echinoderm, gastropods -
more abd below 5'

burrowed - almost churned in upper part,
more distinct burrows below 7.5'

dark gray (GLY 10Y 3/1)
greenish

incl. an "amber" colored bivalve

10

9.9'

**Qj32-27
(174AX BB)**

Core #

130

Start Depth

750

Stop Depth

760

1250

1325

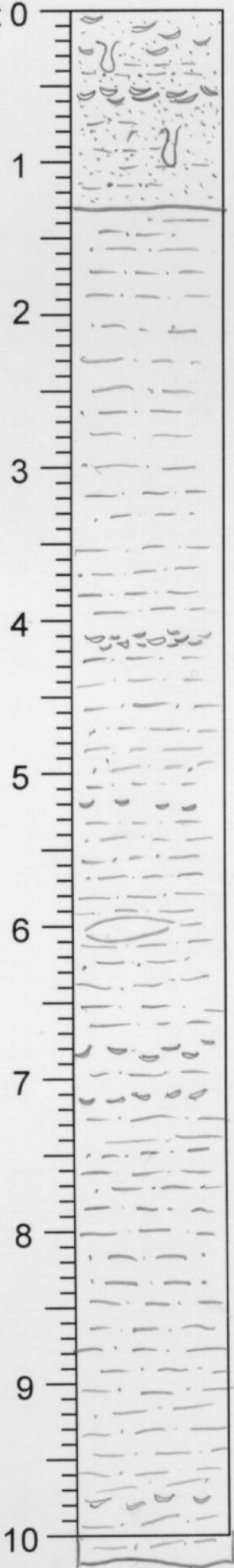
Date

5/29/00

Described by

PPMCL/JVB

Feet 0



SAND; vf, silty muddy, s/bang, well srt'd sd;
sand mostly gtz but notable fractur. of
glauc (vf-silt) & mica
shells @ 0.0-0.3, 0.5-0.6 (bivalves, scaphopod)
above & below shells, mottled appear. due
to burrowing / grey 110y/2.5/1 greenish
black

SILT, very clayey, some vf sd in it,
stiff, some what dry, inside core;
laminated & ^{heavily} disturbed (larger concs and
? small Planolites on bedding plane?)
(1mm x 3mm)

grains
sand ind. concs gtz, mica & vf/silt glauc,
shell fragments

lamination mostly thin < 3mm, sometimes
shell conc. on laminae

shells are mostly small nested bivalves,
conc @ certain levels but dispersed

color: very dark (olive)
gray (5Y3/1)

- shell bed

(brownish)

articulated

10.2

**Qj32-27
(174AX BB)**

Core #

131

Start Depth

760

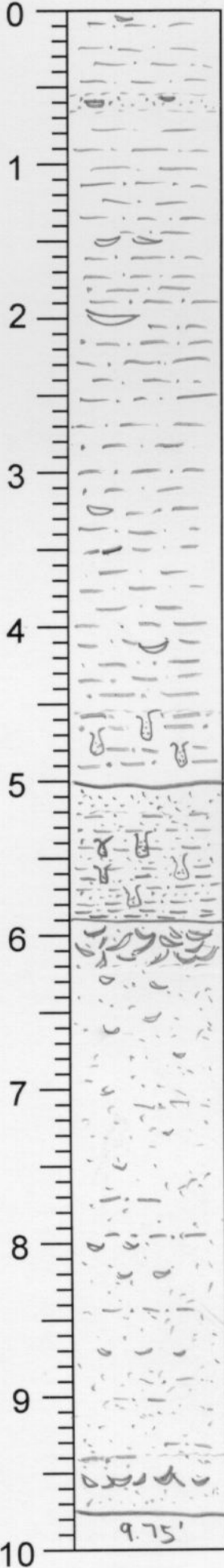
Stop Depth

770

1408

1448

Feet 0



SILT; slightly clayey, w/ some vf sand; mostly gtz
close exam shows glauc silt/vf sd; finely
laminated; bioturbated (small ones, mostly
subhoriz); lens may reflect varms in clay
content; lower part clayier, more banded
color (but less relief); micaceous
shelly w/ bivalves, fragments ~~disse~~
0.65-shells w/ sand
black/brown piece @ 3.5' - ligite? dark wx shell?
8mm long

Very dark (olive) gray 5Y3/1

sandy-fill in burrows, from below
interlaminated

SAND & SILT, in coarsening upward unit
sand is vf-f, mod sorted, sbang, silty, micaceous
shelly (fragments & small shells), shells
10% of sd

SAND; f-vf, mod sortg, sbang, silty, ~1%? glauc,
micaceous, shelly; shells in upper 0.3' are
~30% volume; about same just above
bottom; other wise ~10%; mostly / all bivalve,
a few dark shell fragments (phosphatized?)

dark (olive) gray 5Y4/1

Date

5/29/00

Described by

PPMCL/JVB

10

**Qj32-27
(174AX BB)**

Core #

132

Start Depth

770

Stop Depth

776.5

up @ 600

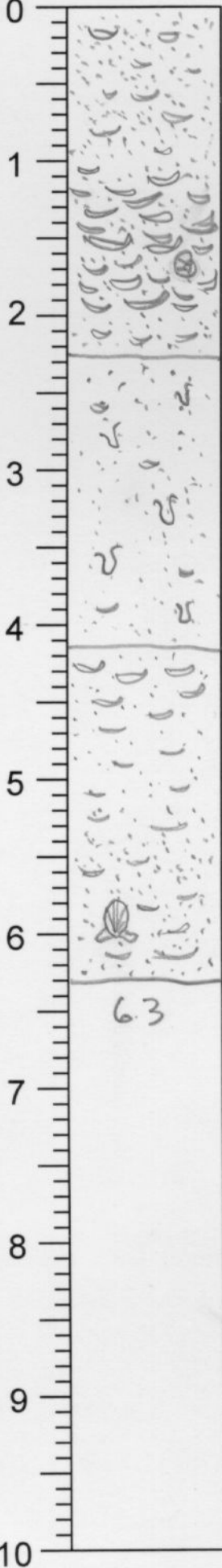
Date

5/29/00

Described by

PPH/JSB

Feet 0



SAND; 25-40% shells; sand wf-f, sbrng,
mod sorted; glauc present, gen wf, sandstone
conc. nr. or on shells; mostly gtz
shells incl. bivalves, funnelled gastropods;
some bivalves v. thick (oysters?); some zones
of highly conc. dark shell debris
(phosphatized), forming hard zones -
from 1'-2' is overall pretty hard & more
shelly - very dark gray (5Y3/1) matrix
(olivey)

- gradational

SAND; <10% shells; variable siltiness
gives contrast in lamination; burrowed;
same sand type as above;
shells incl. bivalves, gastros, & fibrous shell debris;
occ. phosph. grains

color A/A

- gradational

SAND; 15-25% shells; as for top interval
otherwise, incl. one of the very fibrous shells,
a good large peden cored through; shelliest at top

color A/A

Upper shoreface facies?

10

**Qj32-27
(174AX BB)**

Core #

133

Start Depth

7765

Stop Depth

780

up @ 1655

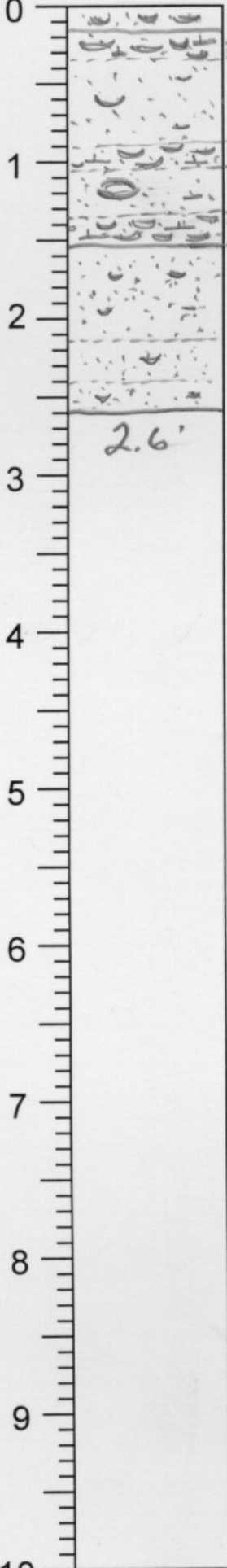
Date

5/29/00

Described by

PPMCL/JMB

Feet 0



SAND; shelly; f-med; sbang; mod sort;
bivalve shells (small)

SAND; shelly; alternating cemented very dark gray shelly zones & unconsolidated less shelly SY 4/1 zones at 0.15-0.35, 0.9-1.05, 1.35-1.55 a few thick shell frags, thin shells/frags, fibrous shell frag, phosphatized shell frags; some glauc.

SAND; w/ interlaminated silt; vf-f sd, sbang, mod sort; silt slightly more cohesive; hard zone 1-2% darker grains (glauc?) scattered shell fragments; a few coarser grains; barnacle @ 2.2' dark gray SY 4/1

10

Qj32-27
(174AX BB)

Core #

134

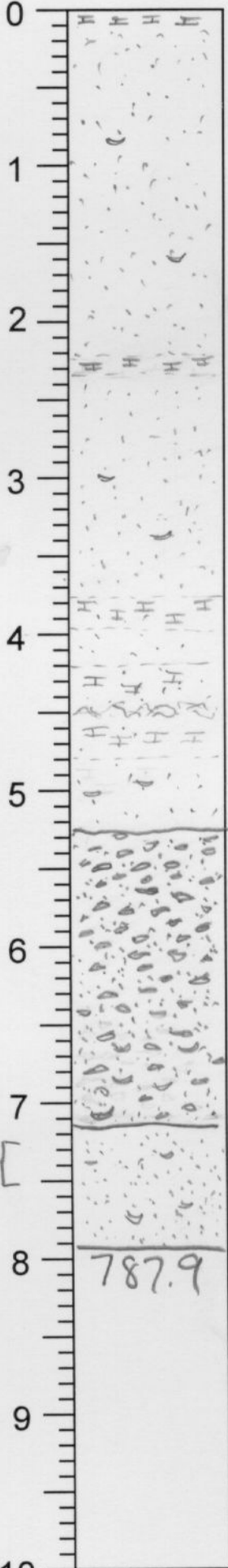
Start Depth

780

Stop Depth

790

Feet 0



SAND with several hard zones; sand is
f-med nr top, med nr middle
mostly qtz, <1% dark grains (some glauc?)
Slang; med-well sorted; small (<5mm
to sand size) shell fragments; slightly
silty;

hard zones 0.05-0.1, 2.2-2.35 (not whole
core-nodule); 3.75-3.95 (very hard);
4.2-4.8 (nr/broken zone in middle);
shelly calcite cemented sands
rest of interval is soft, held together by
silt; see core log

Some shell frags still pearlescent

broken-up

SAND, rubble appearance due to very abnd
shell debris; shell frags mostly <5mm dia,
make up ~75% of volume; sand
matrix is in places cemented hard, in
places crumbly; cemented sandstone kernels
of shell frags, gray to dark gray shell
frags, and some tan to whitish/chalky
frags; fairly hard (softer w/smaller shells lower)

SAND; med-f, as top interval
but no hard zones, slightly less shelly
less silty

Sample for
pore water
analysis

787.9

Date

5/30/02

Described by

PNEL

10

Qj32-27
(174AX BB)

Core #

135
& 136

Start Depth

790

Stop Depth

792

&

792

to

792.6

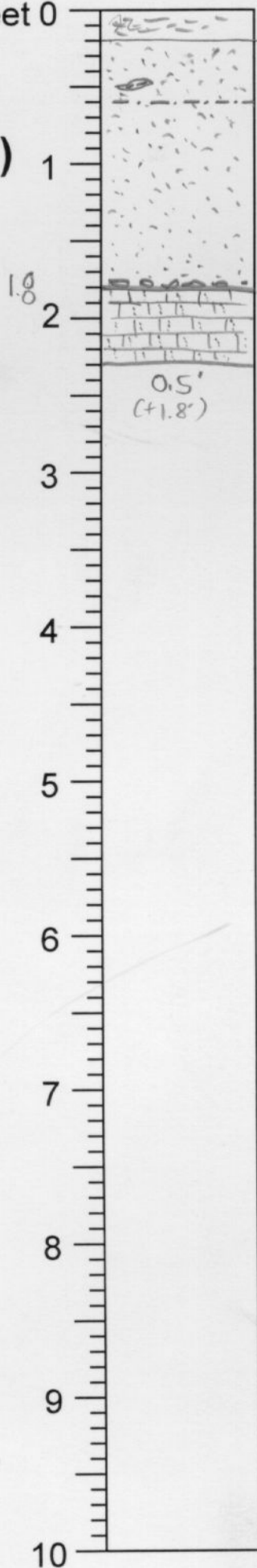
Date

5/30/00

Described by

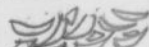
PPMCL

Feet 0



Silt (clayey), shaly, well sorted
SAND; med, shaly, well sorted; most gtz sand,
common sand size shell debris; occ. shells; soft,
v. thin bed of sandy, clayey silt 0.6';
clast of same silt lith @ 0.5'
@ very bottom, ground-up cemented shell &
sand. Shell frags in sand incl. bivalve, barnacle

CORE 135 ↑

CORE 136 ↓  fabric

LIMESTONE; sandy molluscan ^{skeletal} packstone,
mostly bivalve cherts, >75% vol, in a
hard-cemented sand matrix; some
of the shell material still w/ pearly luster

10

Qj32-27 contact
(174AX BB) Contact

Core #

137

Start Depth

792.5

Stop Depth

800

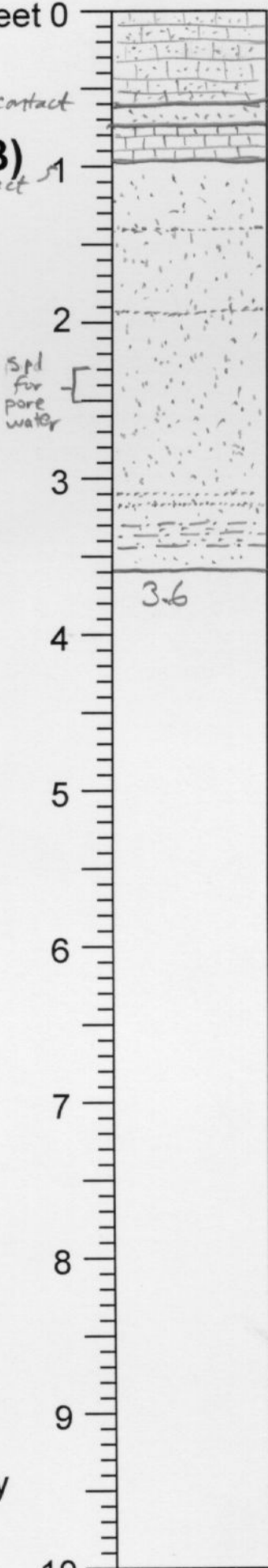
Date

5/30/00

Described by

PANEL

Feet 0



LIMESTONE, sandy molluscan skeletal packstone
Sand is mostly gtz, c dark grains (smaller ones
ohm's? larger ones, better rounded - are they phosphate?)
white cement between sand

SAND - fine, sbang, mod-well sorted,
mostly gtz, 1-2% dark grains (ohm?)

LIMESTONE - as @ top Cbt does not
extend all the way across core...
fragment of lith above?

darks

darks

SAND; fine (or med); sbang-sbrad-rnd;
well sorted; clean; only larger
grains are shell fragments from med to
vcrs sd range; some black/dark, mostly
light; faint lamination, slightly darker ohm's
zones or shelly sd concentrations and,
in lower part, several sticky silty laminae
ohm enrichment @ 1.4', ~1.9, 3.1, 3.2
upper shoreface / foreshore

GLEYS 5/1 greenish gray

10

**Qj32-27
(174AX BB)**

Core #

138

Start Depth

800

Stop Depth

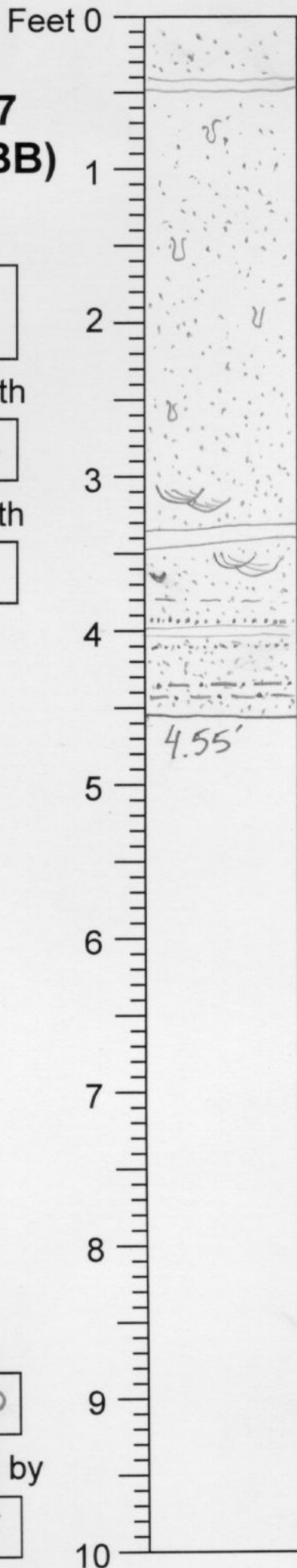
805

Date

5/30/00

Described by

TPM



SAND; f-med gr, ^{clean,} well sorted, sbrnd-sbang;
faint lamination & faint burrowing (better lam. lower)
zones of shell enrichment @ ~0.3, 3.35, 4.0,
shell debris weathered chalky white; apparent
cross bedding between 2.9 & 4.0'

color GLE 1.5GY 5/1 greenish gray

shell

very thin (<math>< 1\text{mm}</math>) silty lamina
shell dark silt carb.

4.55'

Qj32-27
(174AX BB)

Core #

139

Start Depth

805

Stop Depth

807

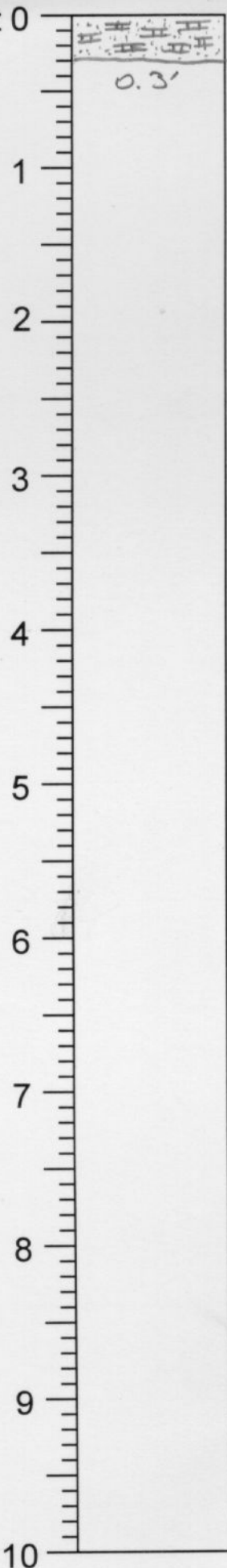
Date

5/30/00

Described by

PPMCL

Feet 0



SANDSTONE; hard, calcite-cemented;
a couple of shells evident (<5% vol);
sand is fine, mostly st2, 1-2%
darks (ohm's?)

**Qj32-27
(174AX BB)**

Core #

140

Start Depth

807

Stop Depth

810

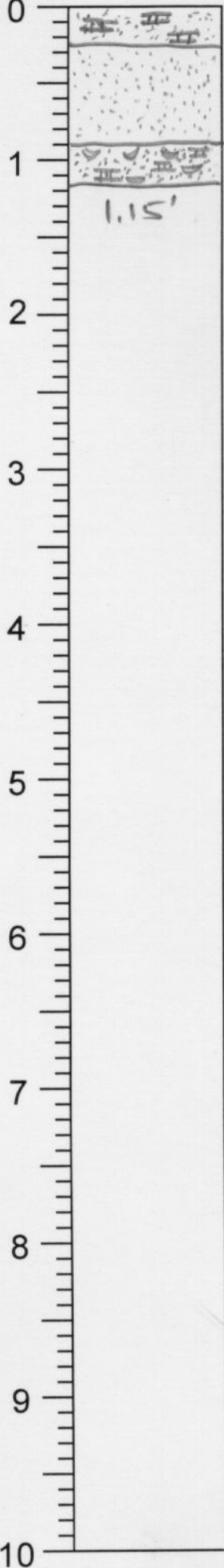
Date

5/30/00

Described by

PBM^cL

Feet 0



SANDSTONE; hard calcite-cemented fine-grained sand, sbang-sbrnd, mod-well sorted, ~1% dark grains; Voids from dissolved shells (skeletal moldic porosity) greenish gray (6EY 2 10Y 5/1)

1.15'
SAND; soft, unconsolidated fine-grained sand w/ carb. (2-3%) fine/thin shell fragments (sand fraction) and 1-3% dark grains (ohm?); mod-well srt'd, sbang-sbrnd

SANDSTONE; hard, calcite-cemented fine-grained sand, as @ top core, but more shells/dissolved shell voids (~1/3 volume)

10

**Qj32-27
(174AX BB)**

Core #

141

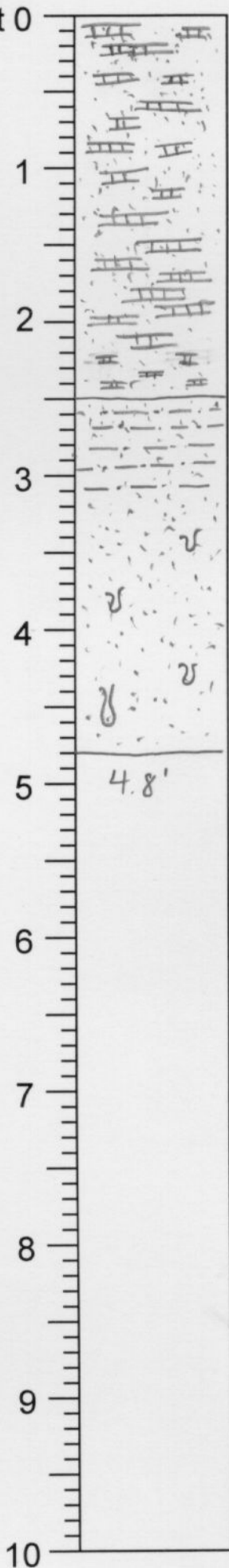
Start Depth

810

Stop Depth

819

Feet 0



SANDSTONE; f-vf, mod (-well) srted, sbrnd (sbrng-rnd); very hard, calcite cemented; 2-3% dark grains (OHM's?) & 2-3% fine gr. thin shell debris (more? in places); incl. a few larger shells/frags, and common voids from dissol'n of shells lower 0.3' less heavily cemented

on fresh surfaces GLEY 1 564 571 or 411, whiter where ground rock flow from drilling

SAND; f-m, mod srted, sbrnd-sbrng, soft, unconsolidated to slightly cohesive at base, very slightly silty, 1-2% dark grains; 2-3% sand-sized shell debris (fto vcrs) lamination evident w/ zones of extra enrichment in silt or shell debris (esp. in upper part) burrowed, w/ darker siltier fill

GLEY 1 564 411

Date

5/30/00

Described by

PPM^oL

10

Qj32-27
(174AX BB)

Core #

87

Start Depth

450

Stop Depth

460

Start: 1444

Stop: 1508

% recovered: 99.5

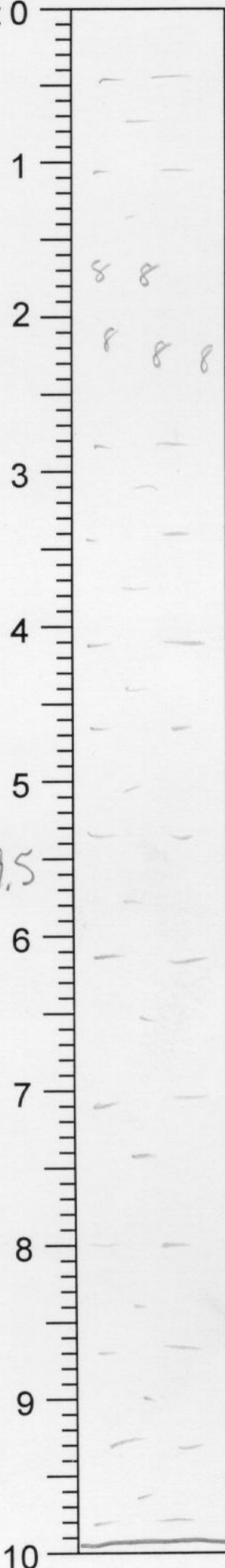
Date

8/24/00

Described by

SAS/TVB

Feet 0



SLIGHTLY SILTY CLAY
SLIGHTLY MICACEOUS
GLAUCONITE FILLED
BURROWS

GLAUCONITE IS ESPECIALLY
COMMON BETWEEN
1.5 - 2.6 FT

LAMINATIONS THROUGHOUT
CORES

SMALL BURROWS ARE COMMON
BELOW 2.0

SCATTER THIN SHELLS
SHELL LAYER AT 2.0

COLOR 5GY 4/1

DK Greenish Gray

**Qj32-27
(174AX BB)**

Core #

142

Start Depth

819

Stop Depth

829.25

down 8:25
up 9:05

$$\frac{6.1}{10.3} = 59\%$$

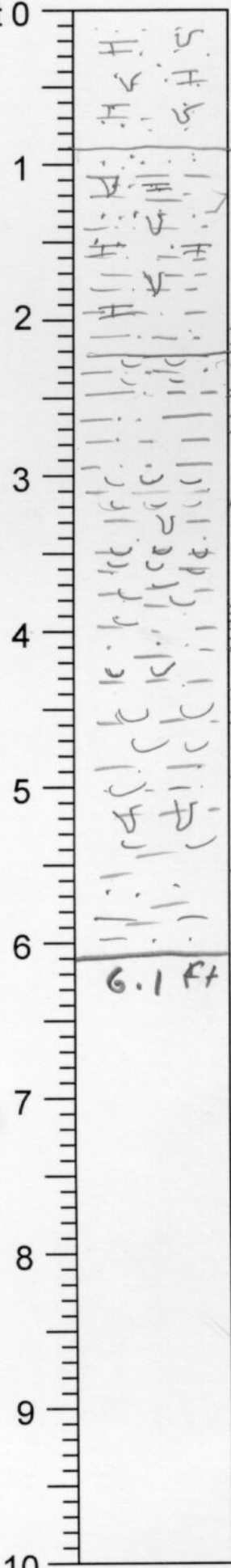
Date

5/21/00

Described by

RNB

Feet 0



^{Indurated,}
SAND, calcareous, burrowed, 5-20mm diam.
med-fine fairly well sorted, subrounded.
whitish calc. matrix; sand-sized shell fragments R
5645/1

SILT, clayey, sandy, f-vf, (sandy at top), shelly - (shell R)
1044/1

laminated (~1mm)

(Shell not as common as shown on lithology)

CLAYIER
(silty clay)
clayey silt

Shells are scattered throughout the silt, section

6.1 Ft

PPM - distal lower shoreface
6m - ? prodelta

10

**Qj32-27
(174AX BB)**

Core #

143

Start Depth

829.25

Stop Depth

839.5

Start 9:58

UP 10:38

85% Recovery

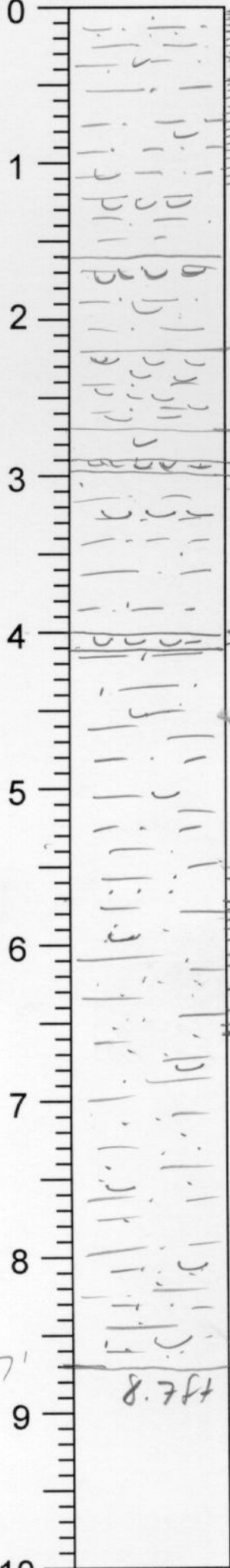
Date

5/31/80

Described by

RNB

Feet 0



SILT, sandy, shell fragments scattered throughout
+ v fg. shell increases downward

~~3~~ 10Y 3/1

shell concentration

shell conc.
~~5~~ 5Y 3/1

← 10Y 3/1 to bottom
shell cone

slightly sandier from here to bottom
laminations

8.77'

8.77'

10

Qj32-27
(174AX BB)

Core #

144

Start Depth

839.5

Stop Depth

849.75

start 1058
up 1138

101%
recovery

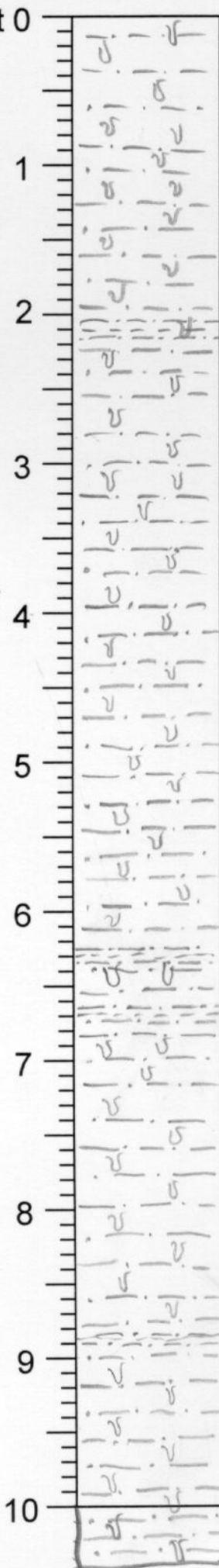
Date

5/31/00

Described by

RWB

Feet 0



SILT; slightly clayey, ^{variably} sandy (v.f.);
extensively bioturbated; occ. shells
& shell fragments (sand size to 5mm);
burrows generally slightly siltier or
muddier; some soft zones
that are slightly sandier & clayey
w/ some preserved lamination

softer

softer

softer

softer

10.35

Qj32-27
(174AX BB)

Core #

145

Start Depth

849.75

Stop Depth

851.75

100%
recovery

Start 1200
UP 12:20

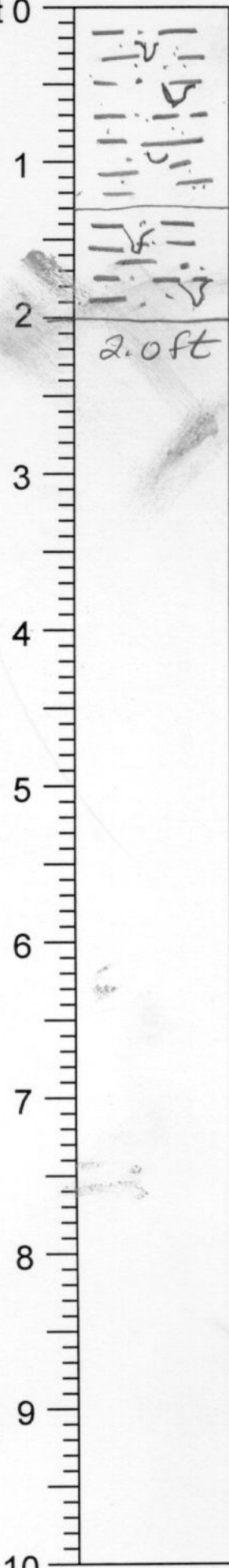
Date

5/31/00

Described by

RNB

Feet 0



SILT, sandy, v.f.
5645/

SILT, sandy, v.f.
hard (indicated) - less sandy toward bottom

2.0 ft

10

Qj32-27
(174AX BB)

Core #

146

Start Depth

851.75

Stop Depth

860.0

START 1348

UP 1430

Recovery

102%

Date

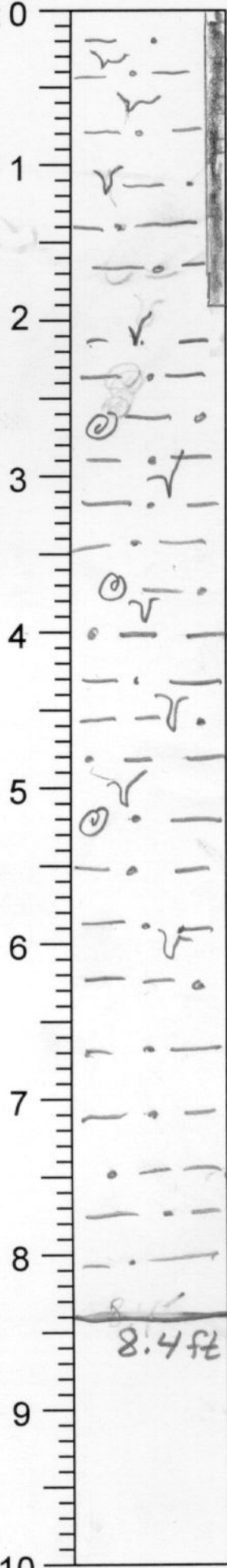
5/30/00

Described by

MEK

RNB KGM

Feet 0



SILT, sandy, clayey, heavily bioturbated. Most of sand is v f - f. Indurated top 2 ft

sand tends to fill burrows

trace OMM thru-out

bedding massive due to bioturb.; some X-laminations 7.4-8.4, 6-6.4

top 5 ft is slightly sandier

Top 2 ft: 5Y 6/2 to 5/2

LIGHT olive gray to olive gray

barrock, shell frag. rest of core

5Y 4/2 olive gray

X-lam

laminator

8.4 ft

Qj32-27
(174AX BB)

Core #

147

Start Depth

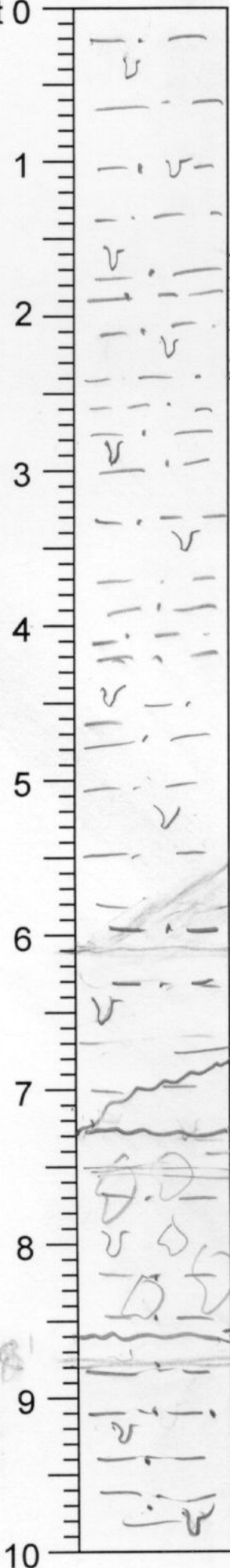
860

Stop Depth

870

90%
recovery

Feet 0



SILT, sandy, v.f., slightly micaceous

1044/1

Rare shell fragments (sand size) +
a rare foram. s scattered
throughout core

Laminations

core broken

core broken 543/1

Broken
(drilling disturbance)

Brecciated (drilling disturbance) 543/1

1044/1

1044/1

Date

5/31/06

Described by

RNB

**Qj32-27
(174AX BB)**

Core #

148

Start Depth

870

Stop Depth

880

J.24
4.93
10.17

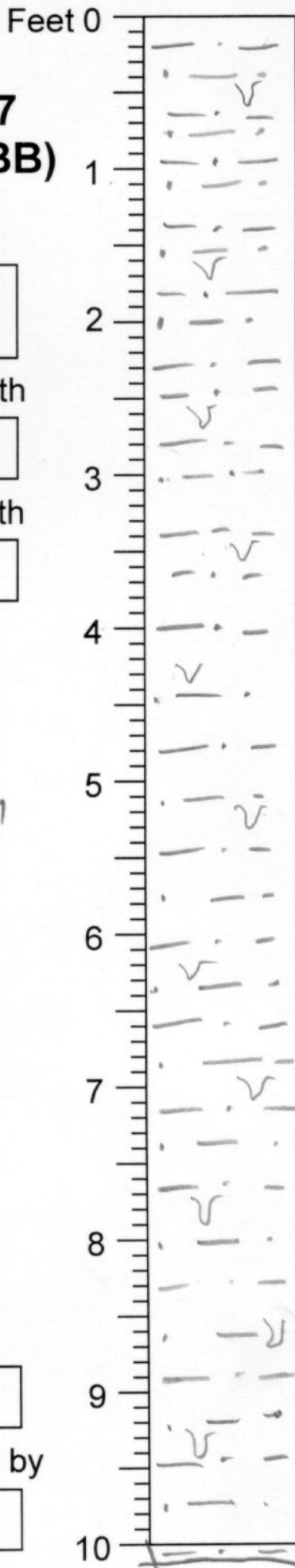
10.17 ft
recovery

Date

5/31/00

Described by

RNB



SILT, only very slightly sandy,
little or no clay
Rare shell fragments scattered
throughout core, no concentrations
Bioturbated.
Faint layering may be present
but difficult to see.

10 Y 4 / 1

faint laminations
in relief

10.17'

QJ32-27
(174AX BB)

Core #

149

Start Depth

880

Stop Depth

889

$$\frac{8.7}{9.0} = 97\%$$

Date

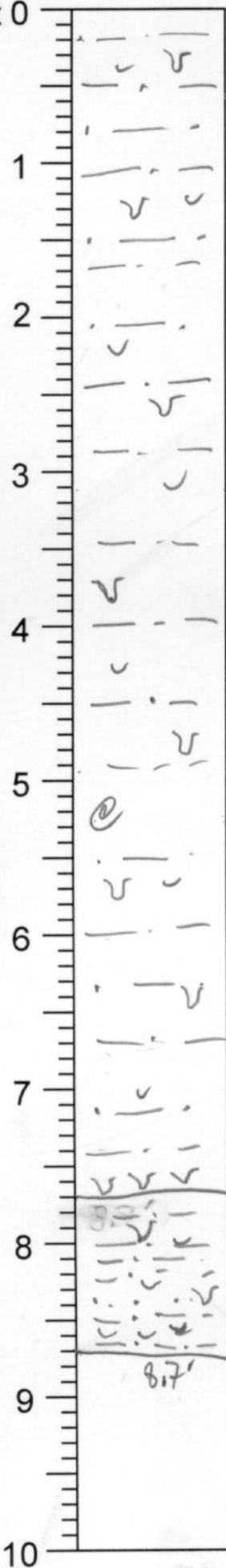
6/1/00

Described by

RNB

MEK

Feet 0



SILT
rare shells scattered throughout
possible faint laminations, well bioturbated
small bioturbated throughout

10Y 4/1 dark greenish gray 0-7.7'
56Y 4/1 dark greenish gray 7.7'-8.7'

3.05-3.1 laminations

5.2 Turritella

7.7 burrowed contact over ~1 ft.

8.1 shells increase slightly
grading downward into sandy silt

8.6-8.7 shell concentration

10

**Qj32-27
(174AX BB)**

Core #

150

Start Depth

889

Stop Depth

899

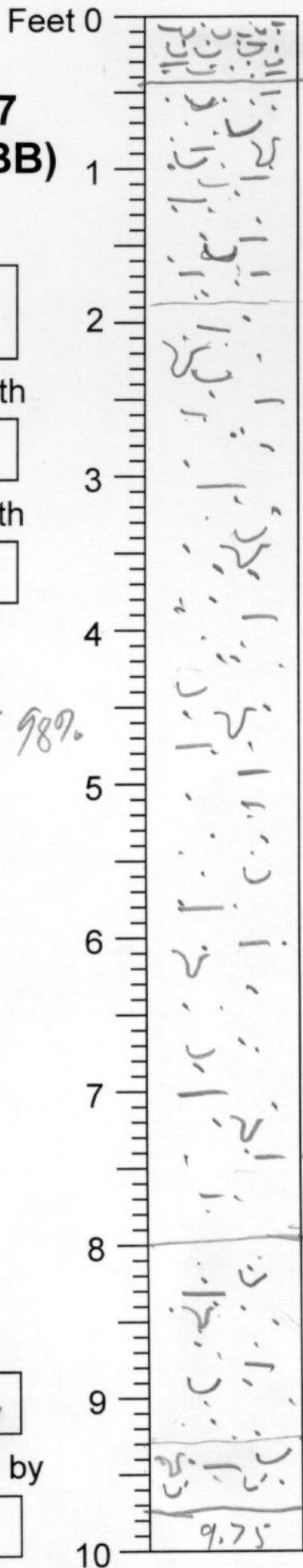
$\frac{9.75}{10}$ 98%

Date

6/1/00

Described by

RNB



Shell concentration in SILTY SAND m-f, a few granules (qtz)

0.45 SAND, silty, m-f, fairly well sorted, subrounded - shells scattered throughout shells decrease gradually to 1.8, ^{more} scattered below this

SY 2.5/2 black-shell layer 0-0.45

SY 3/2 dark olive gray

7.5 finer sand, harder

8.0 SAND, slightly silty

2.5Y 4/2 dark grayish brown

9.3 sand coarsens to med w/ some coarse sand-size shell fragments common

9.75

Qj32-27
(174AX BB)

Core #

151

Start Depth

899

Stop Depth

900

1.2'
1.0

120%

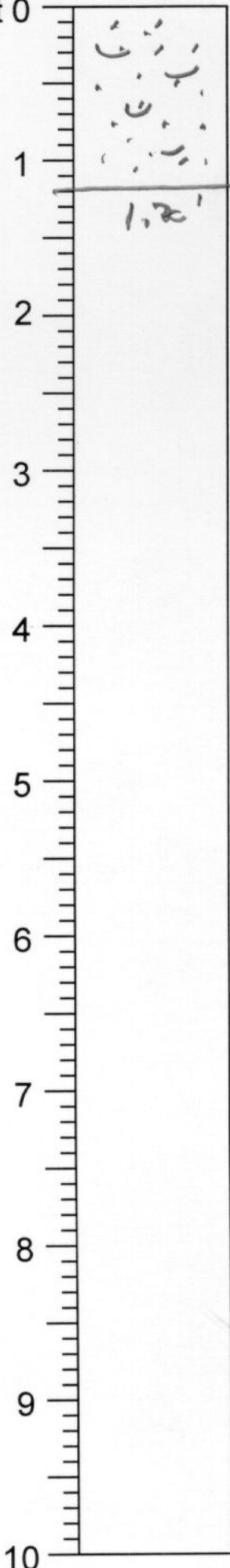
Date

6/1/00

Described by

ANB

Feet 0



SAND, med-cse, grain-supported,
medium sorted, shelly but
shell fragments not concentrated
(shell is common), detrital fragments)
No contacts, no bedding.

1044/1

**Qj32-27
(174AX BB)**

Core #

152

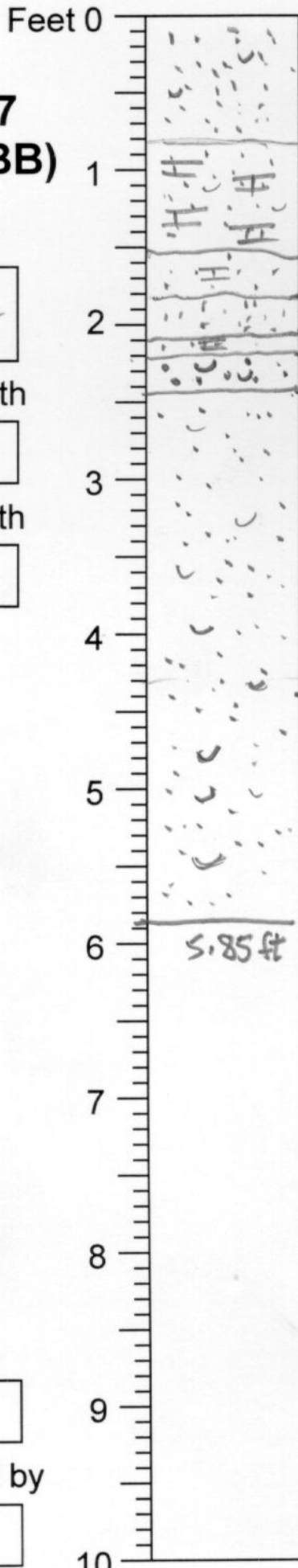
Start Depth

900

Stop Depth

910

5.85
10
59%



Feet 0

SAND, med, mod. to well sorted, subrounded quartz, w/ detrital shell fragments (up to granule size), grain supported sand, unconsol. + traces of phosphatic

0.8 SANDSTONE calcite-cemented but not uniformly so (sand as above) 5646/1 (greenish gray)

~1.5 Transition to uncemented sand

1.8 SAND as above

2.2 loosely cemented -

2.45 SAND, coarse, mod sorting, subround, w/ granule + sized shell fragments

SAND, med, clean, quartz grains fairly well sorted; shell fragments common - all sizes but mostly 2mm or less, no shell concentrations. phosphatic grains, vertebrate bone fragments (?), barnacles, among others.

4.3 sample from center of core for water. This portion was saturated + bulging

4.4

545/1 - 1/2 gray to olive gray

5.85 ft

(General - Sand is clean, very little matrix except where calcite-cemented Potential aquifer quality No bedding observed)

Date

6/100

Described by

RNB

10

Qj32-27
(174AX BB)

Core #

153

Start Depth

910

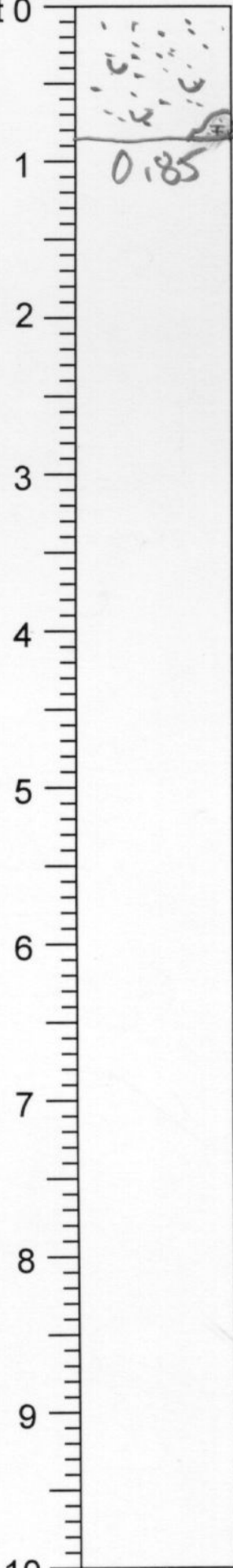
Stop Depth

911.35

$$\frac{0.85}{1.35} = 63\%$$

$$1.35 \overline{) 0.8500} \\ \underline{810} \\ 400 \\ \underline{405} \\ 450 \\ \underline{450} \\ 0$$

Feet 0



SAND, med, well-sorted quartz, sub rounded,
clean, grain-supported - detrital shell
fragments - rare, scattered - barnacles or larger porrids
piece of calcite-cemented ss that stopped
drilling

~~54 5/2 - 5/3~~ olive gray
54 5/1 - gray ~~olive~~

Date

6/1/00

Described by

RNB

10

**Qj32-27
(174AX BB)**

Core #

154

Start Depth

911.35

Stop Depth

920

$$\frac{2.65}{8.65} = 31\%$$

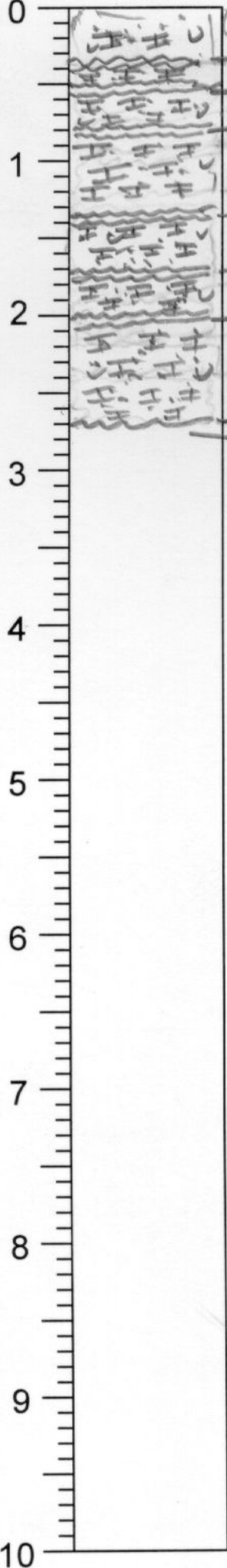
Date

6/1/00

Described by

ANB

Feet 0



SANDSTONE, hard,
calcite-cemented.

Quartz grains - med,
sub rounded, well-sorted,
"floating" in calcite cement
(cement ~ 0.1mm thick
around grains)

Shelly, large fragments
but all sizes
Large voids of uncemented
SS, appear to be shell
ghosts in places
(upto 20mm horizontal)

7 pieces, probably all
separated by uncemented
sand (drillers)

Colors
N 8/ to N 4/2
Light to dark gray

**Qj32-27
(174AX BB)**

Core #

155

Start Depth

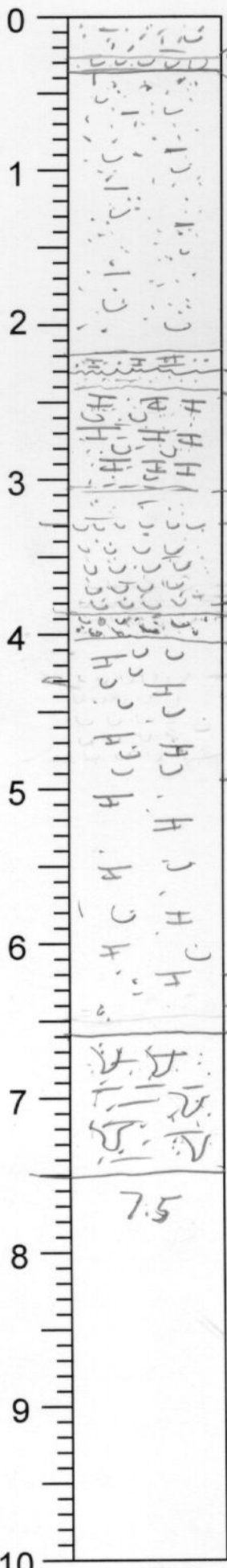
920

Stop Depth

930

$$\frac{7.5}{10} = 75\%$$

Feet 0



SAND, med qtz, subround, slightly silty
 shell fragments
 0.28 - shell concentration - Bryozoa encrusted shell
 0.64 - possible contact

SAND, med-cse, fair sorting (qtz) grain supported, slightly silty; shell fragments (sand fragments) rare/common, scattered;
 qtz grading to medium
 54 1/2 olive gray

2.2 - Top of hard layer - calcite-cemented SANDSTONE
 2.3 - Break in core
 2.45 soft

Hard SANDSTONE, calcite-cemented - shells common scattered, not concentrated; qtz grain med, well sorted

3.05 SAND - qtz as above, shell concentrations

3.3 SAND - qtz as above, shell concentrations

3.8 coarse shell fragments

3.9

4.1 Shell SAND: qtz med, subrounded, fairly well sorted, silty
 Common
 Irregularly cemented, hard and soft w/ irregular boundaries

4.9

6.3 qtz SAND - med-cse

6.6 possible contact

SAND, silty to clayey; clay filled burrows, qtz is med, fairly well sorted, subrounded (as above)

10

Date

6/2/00

Described by

RNB

Sorry about the messy sheet!

**Qj32-27
(174AX BB)**

Core #

156

Start Depth

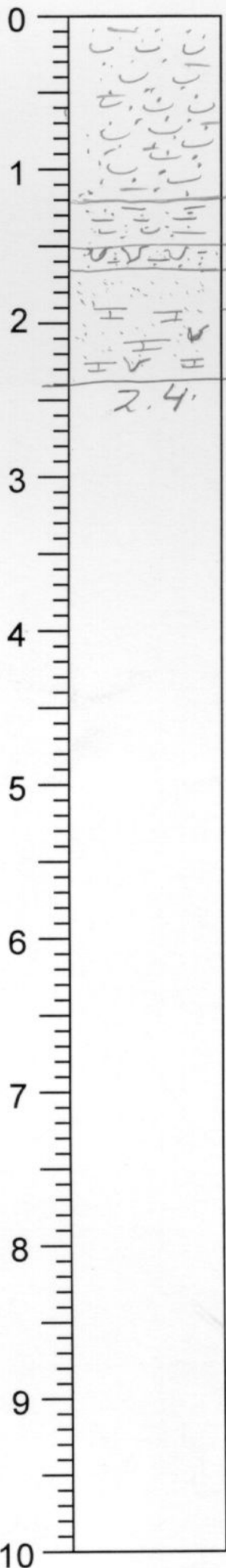
930

Stop Depth

940

$$\frac{24}{10} = 2.4$$

Feet 0



SAND, silty, very shelly; Qtz grains, med moderately sorted, subangular to subrounded, 0.1mm or phosphate shells horizontally layered = coarse laminations, shells nearly whole 5 1/2" - 4" - olive gray

1.2 SAND, silty, Qtz med-fine; shell fragment

1.5 SAND, fine, silty, clay-filled burrows

1.65 SAND, f-f, silty (no shell)

2.4 calcite cemented hard laminated w/ a few burrows (no 0.5mm) laminations 10 Y 3/1 dark greenish gray

Date

6/2/00

Described by

RUB

10

**Qj32-27
(174AX BB)**

Core #

157

Start Depth

940

Stop Depth

945

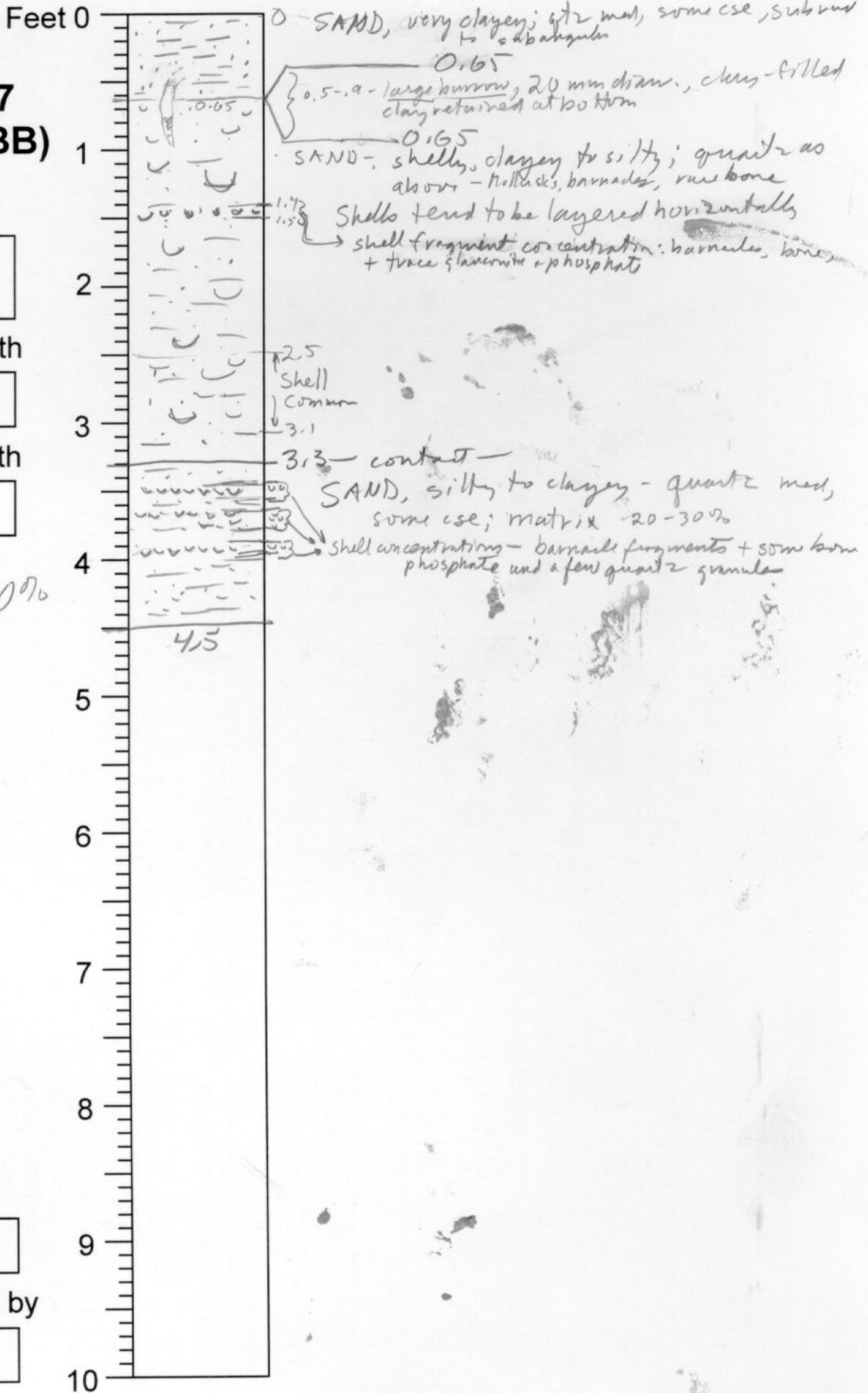
$$\frac{4.5}{5.0} = 90\%$$

Date

6/2/00

Described by

RNB



**Qj32-27
(174AX BB)**

Core #

158

Start Depth

945

Stop Depth

953.5

$\frac{7.6}{8.5} = 289\%$

coarsens
upward

Date

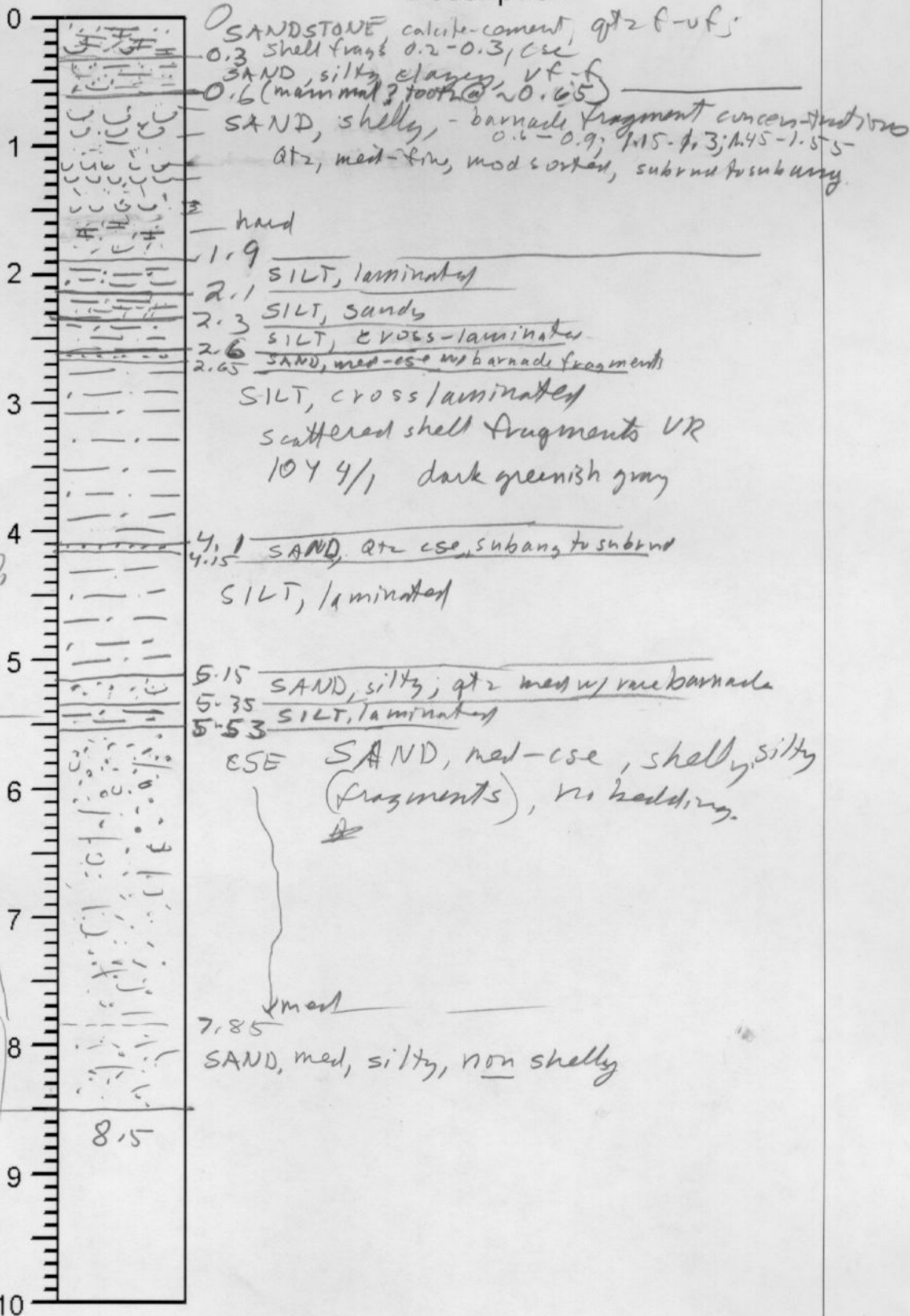
6/2/00

Described by

RNB

Feet 0

Description



**Qj32-27
(174AX BB)**

Core #

159

Start Depth

953.5

Stop Depth

960

$\frac{4.95}{6.5} = 76\%$

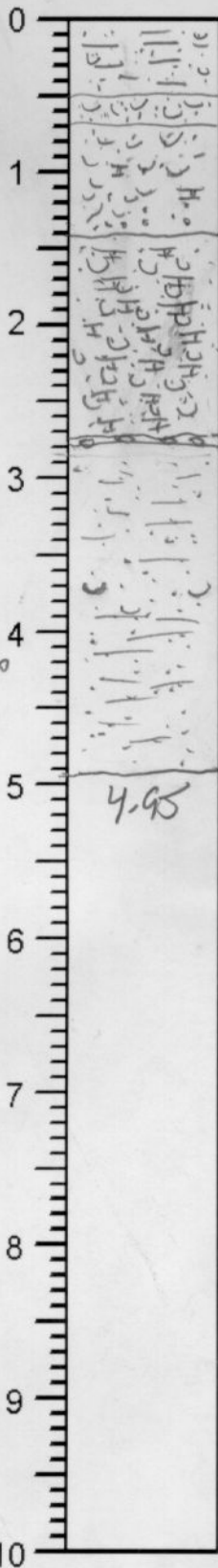
Date

6/2/00

Described by

RNB

Feet 0



Description

0 -1044/1
SAND, clayey; qtz f-cse, poorly sorted, in muddy matrix w/ scattered barnacle fragments

0.5 SHELL HASH, sandy - barnacle frags up to 10-15mm

1 SAND, very shelly, med to cse, coarser at base

1.4 sharp contact (dkn core?)
hard rock

SANDSTONE, calcareous = shell hash w/ matrix of qtz sand + calcite cement

1.9-2.2 = broken up (rubblized by drilling) Bivalves, barnacles?; bone.

2.175 - irregular contact at base of hard rock

2.80 RUBBLE - ss fragments

SAND, very silty, calcareous
qtz med; s scattered shell fragments rare
from 3.7-3.9
10644/1

10

Description

Feet 0

Qj32-27
(174AX BB)

Core #

160

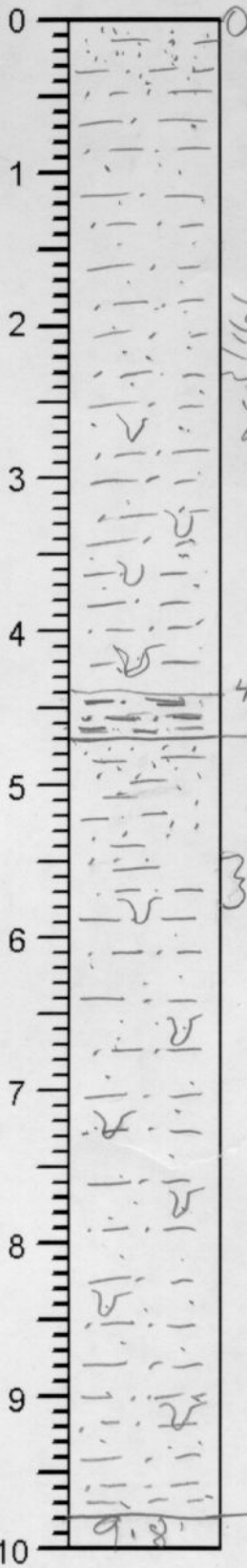
Start Depth

960

Stop Depth

970

9.8' = 98%



SILT, very sandy, clayey,
(sandier from 0 - ~0.3);
cross laminated to about 2.3;
laminæ appear disrupted
below this

cross lam.

disrupted lam - a few clay-filled burrows

4.4 nearly all SILT

4.7

SAND, silty, gtz med-iso, sub ang to
sub rounded, moderate sorting,
rare shell fragment

5.5-5.7 - Grades to SANDY SILT

SILT and SANDY SILT
Bi disturbed

Date

6/2/00

Described by

RNB

10

Qj32-27
(174AX BB)

Core #

161

Start Depth

970

Stop Depth

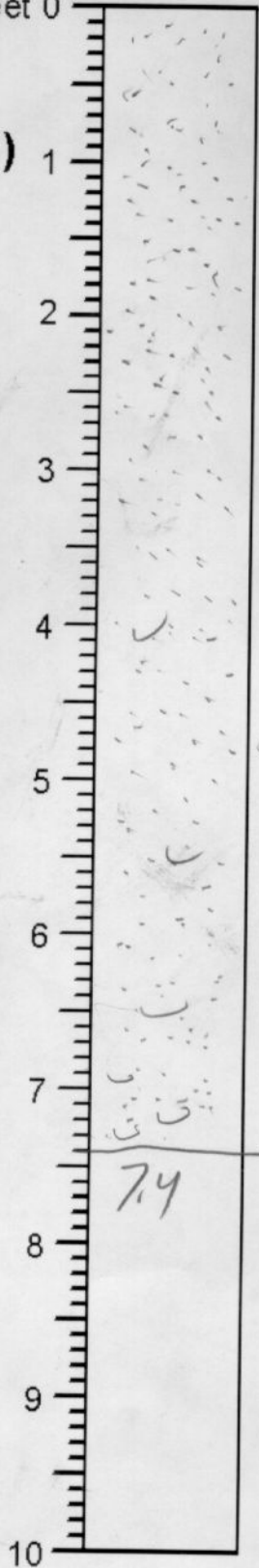
Date

6/2/00

Described by

RNB

Feet 0



Description

SAND, clayey + silty to ~ 1-1, ~~is~~ silty below this.
at 2 f-up, well sorted scattered shell fragments rare; ~~is~~ less rare at bottom .9 ft

A few laminations show up in relief after washing. -
Fairly homogeneous core.

54 2.5/1 - 3/1
very dark to dark olive gray

clayey, + silty
- 1-1
silty

7.4'
7400

41.5
60

60 741.5

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

162

Start Depth

980

Stop Depth

982

Recovery %

75%

Run Start Time

?

Run Stop Time

9:15

Drilling Notes:

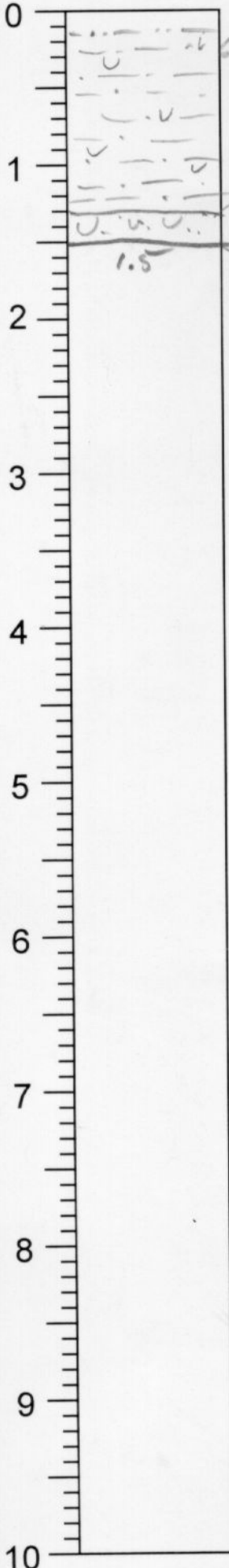
stopped @ hard
zone 2' into core

Date

6/3/00

Described by

MK



0-1.3
 slitty fine-med. sand w/shells + fragments
 distributed thru out,
 no bedding visible.
 SY 3/2 dark olive gray

1.3-1.5'
 calcite-cemented sand w/shells

Core Description

Qj32-27
(174AX BB)

Core #

163

Start Depth

482

Stop Depth

990

Recovery %

Run Start Time

9:30

Run Stop Time

10:15

Drilling Notes:

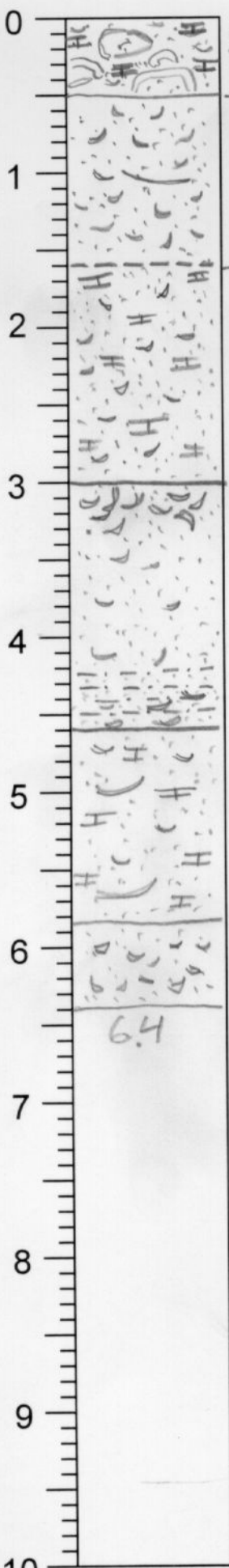
Date

6/3/00

Described by

FRNCL/MK

Feet 0



SANDSTONE; hard, cemented, calcite; fine, subrounded, well-sorted gtz sand; dark (ohm) grains < 1%; includes abd shells & shell frags < 25% vol; shells often include both valves, some very thick (1-7mm) greenish gray (GLEY 10G4 6/1)

SAND; soft; fine, w/some med, sbnd-sbng, mod srtg, mostly gtz; silty; ind. ~1% dark grains; abd shell debris, light+dark (phos?), some nearly whole, size from sand to > 50mm, gen 2mm thick, aligned subvert to subhoriz; dark greenish gray (GLEY 1, 5G4 4/1) base gradational; shells up to 25% volume

SANDSTONE; hard; fine-med gr, sbnd, mod srtg; abd shell fragments, sand to 10mm, some whole shells nr. bottom; shells up to 2mm thick, at various angles, up to 25% volume; GLEY 1 10G4 5/1 greenish gray calcite cement

SAND and interbedded SILT; soft; top is a very shelly sand, bottom is sandy silt; sand is fine, sbnd, well srted, w/shell debris up to 50% @ top; lower part is > 50% sandy, shelly silt beds

dark greenish gray (GLEY 1 10Y4/1)

SANDSTONE; about same as 0-0.5, but thinner shelled bivalves, and some parallel lam nr top

SAND; shell fragments; about same as 0.5-1.6'

10

Core Description

Qj32-27
(174AX BB)

Core #

164

Start Depth

990

Stop Depth

1000

Recovery %

62

Run Start Time

10:40

Run Stop Time

11:25

Drilling Notes:

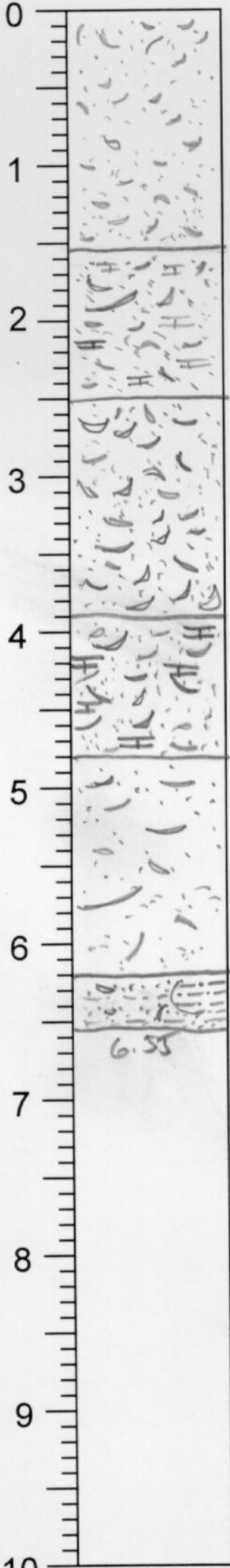
Date

6/3/00

Described by

PPM/LMK

Feet 0



SAND; soft, very shelly; med-f, sbrnd, mod sort; abd shell frags, ~25% vol, up to ~10 mm w/ some larger shells/frags, some light, some dark (phos?); rare dark larger well-rounded grains, up to ~4mm - phos? mostly a sand hash of shell fragments; silty dark greenish gray (1044/1)

SANDSTONE; as above, but harder cemented (CaCO₃ cement) and a few larger shells (more crumbly lower down) greenish gray (1046/1 GY1)

SAND; soft, shelly; descrip as for 0.0-1.55 but more abd shells (25-50%)

STONE SAND; very shelly, cemented w/ CaCO₃ (although can be crumbled), same descrip as for 1.55-2.5 but more abd shells (25-50%) and more large shells (bivalves frags)

SAND; soft, shelly; silty; med (f), well (mod-well) srtk; mostly gtz, sbrnd; shells incl. fragments & nearly complete specimens, <25% volume shells up to 50 mm (all the way across

core) w/ frags to sand size; smells like H₂S dark grn gray (1043/1)
SAND; as above, less shells, more silt (incl. a rounded zone that may be burrow or clast)

10

Core Description

Feet 0

**Qj32-27
(174AX BB)**

Core #

165

Start Depth

1000

Stop Depth

1010

Recovery %

74%

Run Start Time

11:55

Run Stop Time

12:40

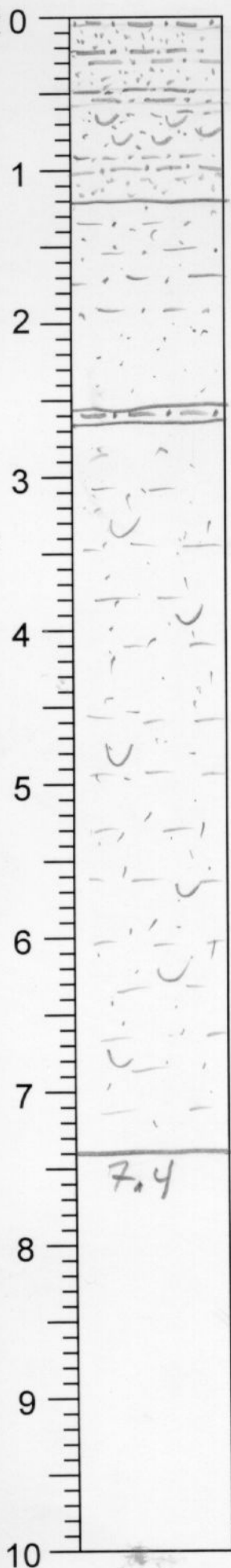
Drilling Notes:

Date

6/3/00

Described by

PM/MK



0-1.2 interbedded sand + silt:
Sand, fine-med, sub-rounded/subangular,
1% ohm, silty, shell frags scattered (some dark)
SILT, lam/x-lam, little to no sand,
50% discontinuous (flaser bedding)
1.2-
sand, med-fine, sub.ro./sub.ang., 1% ohm
silty, hints of laminations to visible
laminae in parts, shells more intact &
sometimes aligned
few zones of silt
75.3', cleaner sand, > water
76.4', " " , > water

0-1.2 silts 5GY 5/1 greenish gray
1.2-7.4 10Y 4/1 dark greenish gray

10

**Qj32-27
(174AX BB)**

Core #

106

Start Depth

1010

Stop Depth

1020

Recovery %

98

Run Start Time

13:05

Run Stop Time

13:44

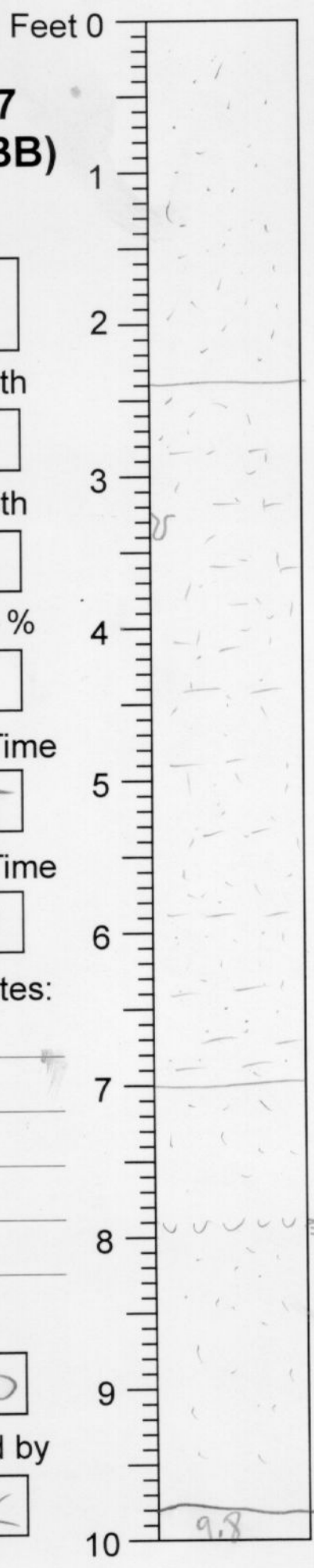
Drilling Notes:

Date

6/3/00

Described by

PM/MEK



Core Description

0-2.4, 8-9.8
Sand, med, well-sorted, most clean, slightly silty in places
sub-rounded/sub. ang.
1% ohm

laminated (faint)
small scattered shells throughout
silt filled burrow 3.35

104 4/1 dark greenish gray

2.4 - 7' siltier sands in places, laminae more pronounced

7.9-8.0' shell hash laminae

lower shoreface (cupper end)

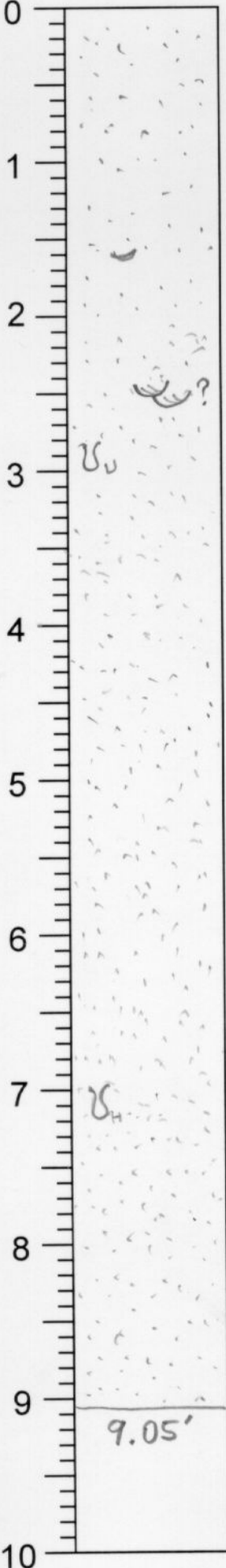
9.8

Core Description

SAND, soft, slight cohesiveness from slight siltiness;
fine, well sorted, sbrnd; dark (ohm?) grains
~1% dispersed sand-size shell debris, occ. in lams;
slightly silty, variability showing lamination
in places; burrowed incl. slightly silty
U-shaped burrow @ 2.9 & silt-filled burrow
(subhoriz) @ 7.05'. Incl. lam. @
2.55' (x-bed?); shell frags (larger) @ 1.6'

lower shoreface (upper end)

Feet 0



**Qj32-27
(174AX BB)**

Core #

167

Start Depth

1020

Stop Depth

1030

Recovery %

91

Run Start Time

1410

Run Stop Time

1453

Drilling Notes:

Date

6/3/00

Described by

PPNCL/MK

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

168

Start Depth

1030

Stop Depth

1040

Recovery %

85

Run Start Time

1510

Run Stop Time

1555

Drilling Notes:

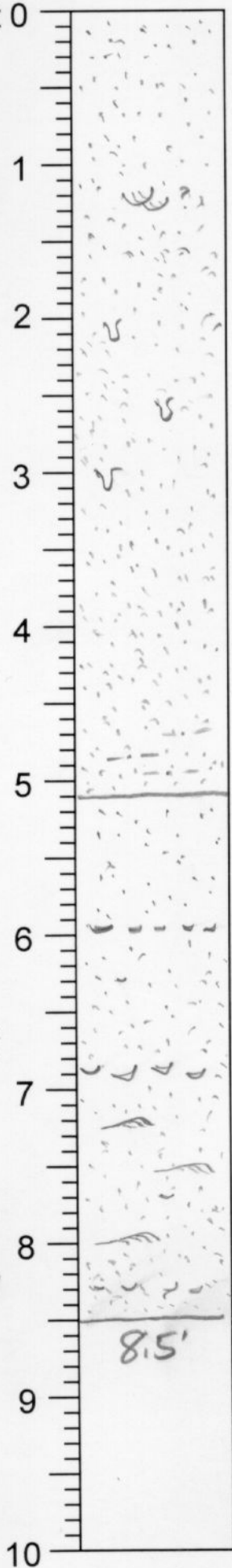
core extended fast,
over-ran tray &
fell on ground -
should be correctly
reconstructed
also - core compacted

Date

6/3/00

Described by

PANCL/MK



SAND; fine; sbrnd; well srted; mostly gtz;
'ohms 1-2%; dispered sand size to 2-3mm
very thin shell debris; scattered lamination,
some vly inclined (x-beds); slightly silty,
esp. toward bottom

dark greenish gray (GLEY 1 10Y 4/1)

SAND; inter laminated very thin fine + silt. of sand;
Silty of sands are slightly more cohesive, sbrnd,
well sorted, 3-4 mm thick; fine sands are
slightly silty, mod-well srted, sbrnd,
> 3 mm thick, show cross lamination/
ripples. Cone shell fragments ~ 5.95 and
6.85-6.95; 8.3'. Minor bioturb

More sandy lower down, with v of sand/lams
less abd & thinner/more discont; more fine-salc
cross-lam, lower down, esp 7-8'

ripples

fine sands:
dark greenish gray (GLEY 1 10Y 4/1)

Very fine silty sands:
dark greenish gray (GLEY 1 10Y 3/1)

8.5'

10

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

169

Start Depth

1040

Stop Depth

1047.5

Recovery %

7.2

Run Start Time

8:35

Run Stop Time

9:15

Drilling Notes:

Date

6/4/00

Described by

PM/MK



- SAND, fine, well sorted, very slightly silty, ~~stranded~~; soft
 - laminated to thinly bedded
 - scattered shells throughout;
 shells more concentrated below 0.4'
 more homogenous (less laminated below 6.4'; shells ~ parallel alignment)
 dark greenish gray (1044/1 grey)

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

170

Start Depth

1047.5

Stop Depth

1055

Recovery %

106%

Run Start Time

9:52

Run Stop Time

10:35

Drilling Notes:

Date

6/4/00

Described by

PM



SILT and interlaminated SAND (silt 2/3-3/4 of interval)
 Sand is vfg, silty, well sorted, sbnd, slightly silty, thin to thick lam; soft
 silt is very clayey, stiff, laminated, in places thinly bedded (up to 30 mm), top portion (0-0.5) is shellier
 some lamination is inclined (x-lams)
 some burrows
 color: GLEY 1 10Y4/1 dark greenish gray

CONTACT ^{soft}/_{hard}
 SAND; harder than above; very shelly; vf-f, sbnd-sbnd, mod silt, silt mixed in; shells include articulated bivalves @ top up to 40 mm; shells ~10% (>?); dark olive gray (5Y3/2); some bioturbation gives mottled appearance

not abrupt
 SILT; hard, extensive burrowing; mottled some sand in burrows, scattered shells; entire volume bioturbated; vert & horiz burrows up to 15 cm dia (in cl. Thalassinoides-type?); variable slight clayey ness
 color 5Y4/1 dark (olive) gray, with mottling lighter & darker

SILT; gen clayey; some layers soft & sticky, but mostly hard; some sense of lamination, but notable burrowing also (all horizontal)
 dark (olive) gray, color 5Y4/1

7.95'

10

Core Description

**Qj32-27
(174AX BB)**

Core #

171

Start Depth

1055

Stop Depth

1057

Recovery %

Run Start Time

11:13

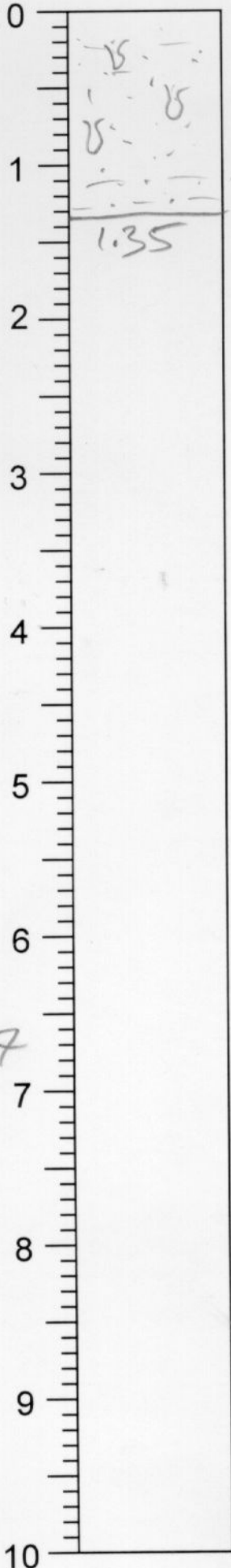
Run Stop Time

11:51

Drilling Notes:

hit rock at 1057

Feet 0



SAND, v. fine, silty, subrounded,
well-sorted, hard, siltier towards base
(>1.1')
- burrowed, horizontal, 10mm
- very fine laminae
5Y 4/1-3/1 dark gray - v. dk gray (olive)

Date

6/13/00

Described by

PM/MK

**Qj32-27
(174AX BB)**

Core #

172

Start Depth

1057

Stop Depth

1060

Recovery %

Run Start Time

1255

Run Stop Time

1330

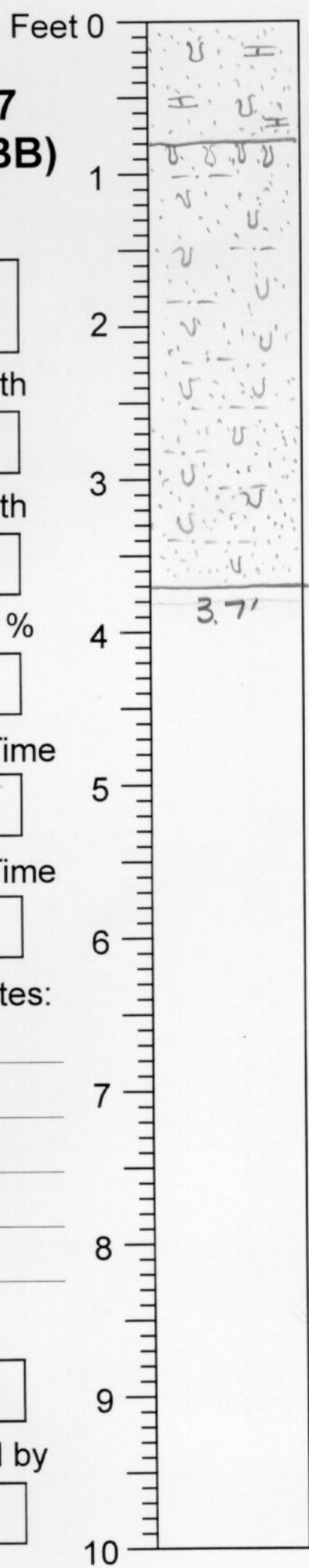
Drilling Notes:

Date

6/4/00

Described by

PPMCL



Core Description

1-2% olm

SANDSTONE; hard, calcite cemented, [←] olive gray (5Y4/2)
w/ green conchoidal fracture; sand v.f. sbrnd, well srt'd; some burrows (slightly softer) cement looks more micritic than sparry

SAND; interlaminated fine & v.f sand, both silty, the v.f siltier; some lamination but often obscured by common bioturb; top 0.1' is mottled, burrowing mixing between this & overlying interval; burrows long, subvertical & U-shaped; 1-2% olm, trace glauc (v.f fine)

dark greenish gray (6LEY 1 10Y4/1 & 3/1)

note - top of core had a wear ring on it from drilling of prev run; the 0.7' extra in this is prob the bottom of the last run, so top 0.7 would go there depth-wise.
note

Core Description

**Qj32-27
(174AX BB)**

Core #

173

Start Depth

1060

Stop Depth

1070

Recovery %

Run Start Time

1402

Run Stop Time

1438

Drilling Notes:

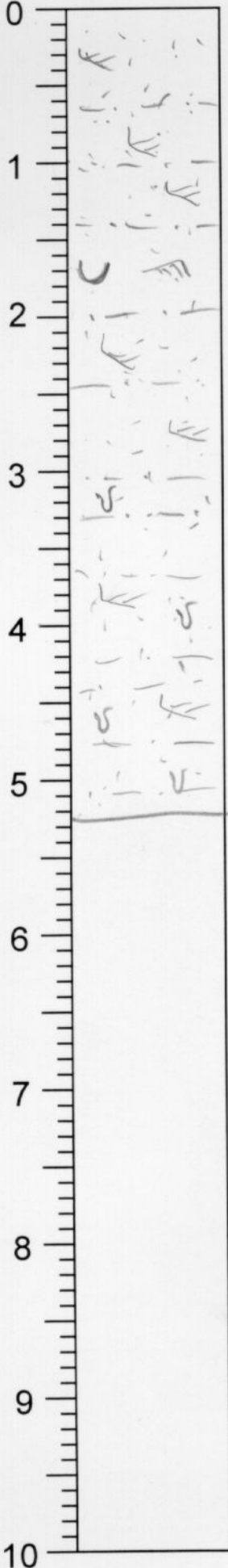
Date

6/4/00

Described by

PPMCL

Feet 0



SAND, very fine, silty, sbrnd, mod-well srt'd
 -laminated, x-lam.
 some laminae are slightly clayey, 2-3mm
 -few scattered shell fragments
 -large shell fragment at 1.7' (coyster?)

laminae less pronounced below ~2.8'
 appears to be burrowed

SY 4/1 - 3/1 dk gray - v. dk gray (olive)

10

Core Description

Qj32-27
(174AX BB)

Core #

174

Start Depth

1070

Stop Depth

1077

Recovery %

Run Start Time

1502

Run Stop Time

1545

Drilling Notes:

acted like shoe

was plugged, so

stopped @ 7'

Gene Sr: 1000' drilled on one
water swivel repair kit

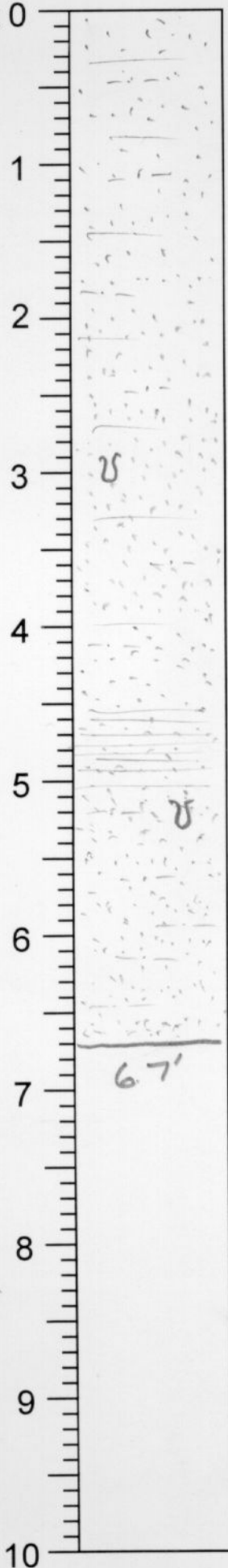
Date

6/4/00

Described by

PPM⁹L

Feet 0



SAND; very fine, very silty; stiff, a bit dry
 inside core; sand is v.f. well sorted, sandy-sand,
 ~1% darks (ohm? +/or glauc?);
 extensively bioturbated, with good
 horiz & diagonal burrows
 @ ~3', burrow ~15 mm dia w/fil like
 layered parallel to wall
 faint lamination/color banding
 through most of core - from 4.5-5';
 clear distinct lens between stickier (siltier)
 & less sticky zones

Core Description

Qj32-27
(174AX BB)

Core #

175

Start Depth

1077

Stop Depth

1080

Recovery %

97

Run Start Time

11:00

Run Stop Time

11:35

Drilling Notes:

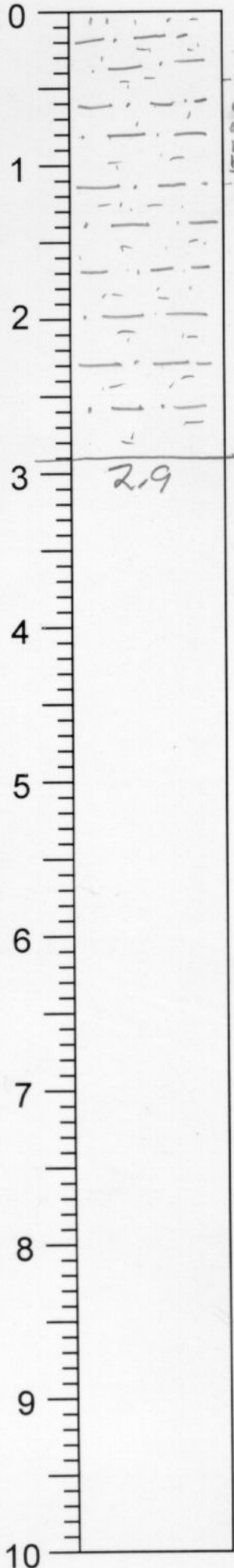
Date

6/12/00

Described by

RNB

Feet 0



SILT, sandy, clayey, laminated
throughout (possibly scattered
burrows); scattered shell fragments
($\leq 1cm$), barnacles, mollusks? - UR;

0.4
coring
artificial
no
burrow
1.1

5Y4/1 - dark gray

2.9

10

Core Description

**Qj32-27
(174AX BB)**

Core #

176

Start Depth

1080

Stop Depth

1090

Recovery %

100%

Run Start Time

1329

Run Stop Time

1407

Drilling Notes:

Even, easy drilling

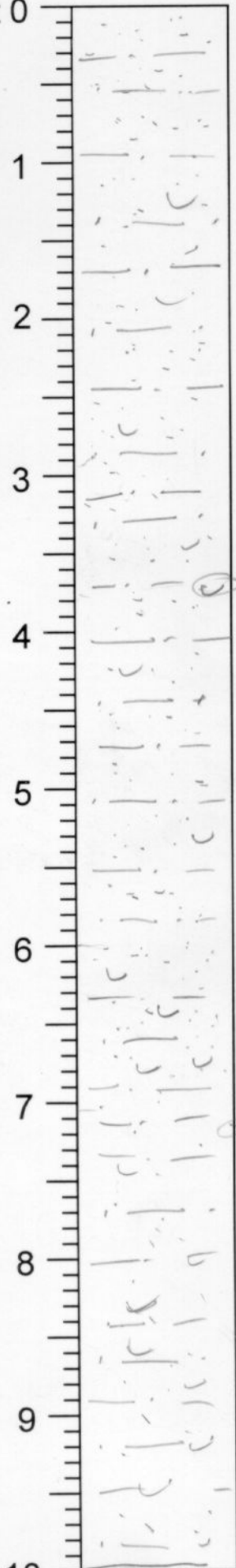
Date

6/12/00

Described by

RNB

Feet 0



SILT, sandy, V F, somewhat clayey; glauconite
 1-2%; laminated throughout; small
 shell fragments (\approx 1cm), scattered,
 UR to about 6'; rare from 6-10'
 Large thin shell @ 3.75
 Slightly less sandy below 7 ft
 Core is fairly homogeneous,
 no contacts noted.

544/1

3.75 thin shell

2.2 - thin shell

10.0

Core Description

Feet 0

**Qj32-27
(174AX BB)**

Core #

177

Start Depth

1090

Stop Depth

1100

Recovery %

103

Run Start Time

1437

Run Stop Time

1515

Drilling Notes:

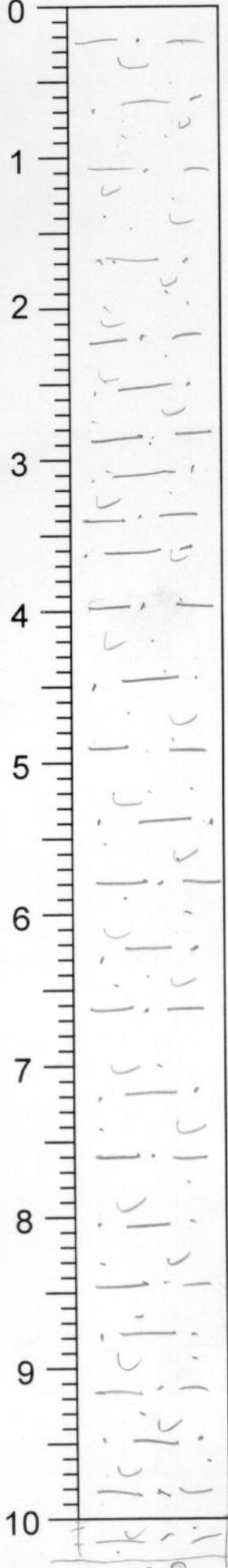
*Easy + even
drilling*

Date

6/12/00

Described by

RNB



SILT, sandy (wf), somewhat clayey;
 (less sandy than ⁱⁿ core 176); glauconite
 ~1-2%; shells, rare, scattered
 throughout (more abundant than
 in core 176); laminated
 throughout although less apparent
 in some intervals (7.5-9.0);
 homogeneous core.
 5Y4/1 - dark gray.

Core Description

Qj32-27
(174AX BB)

Core #

178

Start Depth

1100

Stop Depth

1110

Recovery %

105%

Run Start Time

1550

Run Stop Time

1635

Drilling Notes:

Drills like above
w/ sand @ bottom

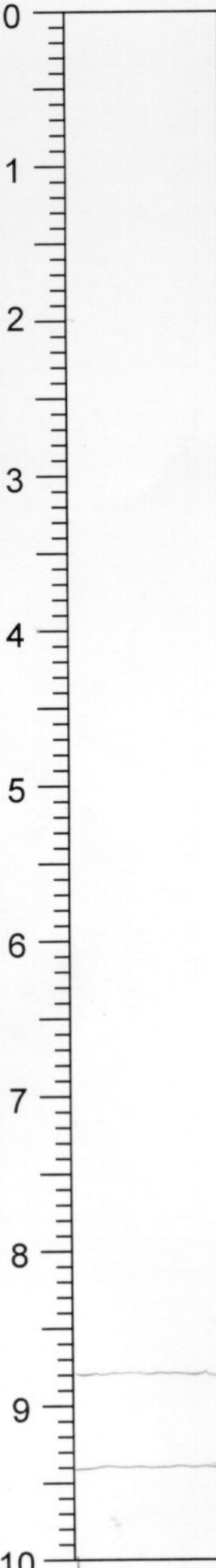
Date

6/12/00

Described by

PNB

Feet 0



SILT, sandy, ^{vf} slightly clayey; shell frag-
ments & coral??, fine sizes.
thin, nearly complete shells @ 0.2', 3.4', 6.3'

5Y 4/1 dark gray

8.8
SILT, sandy, grading downward to
SAND, vf-f, very silty.

9.4
SAND, vf-f, very silty, dark grains (nl-2%)
phosphate (bone?) and/or glauconite, f-med.

10.5'

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

179

Start Depth

1110

Stop Depth

1120

Recovery %

104.5

Run Start Time

0831

Run Stop Time

0914

Drilling Notes:

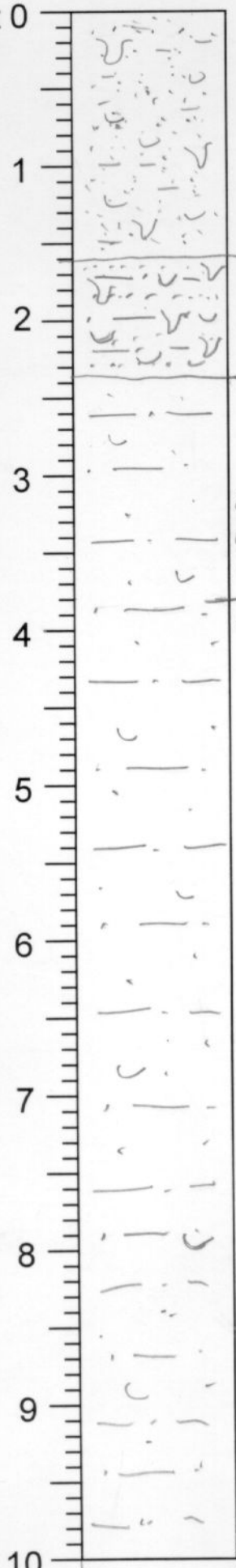
Easy drilling
as above

Date

6/13/00

Described by

RNB+SP



SAND fine, grain-supported, subrounded, qtz fairly well-sorted; thin shell fragments Rare; dark grains (probably glauconite) ~ 1% 2%; very silty; bifurcated. 5 1/4'

1.6 SAND as above + SILT (laminated) and burrowed - (burrows sand-filled from above, horizontal) lower shoreface? 60%

2.45 SILT, sandy (x-uf), shelly (small fragments scattered, UR); scattered large forams observed (Lenticulina); dk grayish brown laminated throughout; bottom 2ft somewhat clayey

3.3 5 1/4' - olive gray

lower shoreface to offshore? 60%

10.45'

Core Description

**Qj32-27
(174AX BB)**

Core #

180

Start Depth

1120

Stop Depth

1130

Recovery %

103

Run Start Time

0945

Run Stop Time

1043

Drilling Notes:

Even drilling

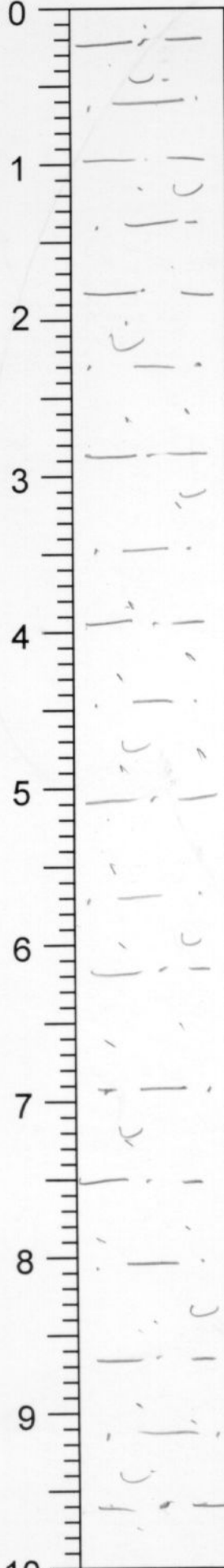
Date

6/13/00

Described by

RNB+SP

Feet 0



SILT - as above &
sandy (v.f.); laminated
throughout; ^{small} shell fragments
scattered, VR-R

lower shoreface
to
offshore? EPRCC

10.3

Core Description

**Qj32-27
(174AX BB)**

Core #

181

Start Depth

1130

Stop Depth

1140

Recovery %

105.5

Run Start Time

1123

Run Stop Time

1213

Drilling Notes:

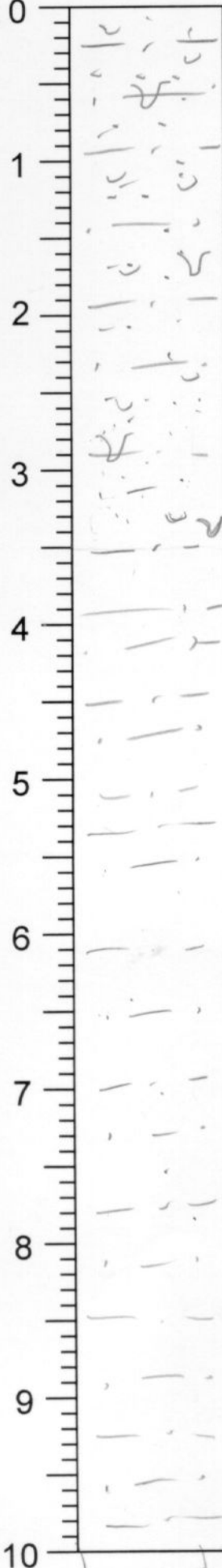
Date

6/13/00

Described by

RNB:SP

Feet 0



SILT as above; sandy, vf,
 sandier in upper 3.5 ft; Shell R,
 Scattered upper 3.5 ft (thin
 shells, small, fragment) - Shell -
 vk below 3.5: laminated
 throughout; faint burrows
 in upper ~ 3.5 ft; shell fragment
 horizontal = parallel to lamination (also in
 sandier above cores)

3.5
 less sandy

lower lower
 shoreface?
 (higher)
 to
 maybe as
 distal as
 offshore?
 (lower)
 JMW

more
 clayey - bottom .5'
 10.55
 sample, RNB " 1140.40 - .55"

Core Description

**Qj32-27
(174AX BB)**

Core #

182

Start Depth

1140

Stop Depth

1150

Recovery %

106

Run Start Time

1326

Run Stop Time

1410

Drilling Notes:

Drilling same
even drilling

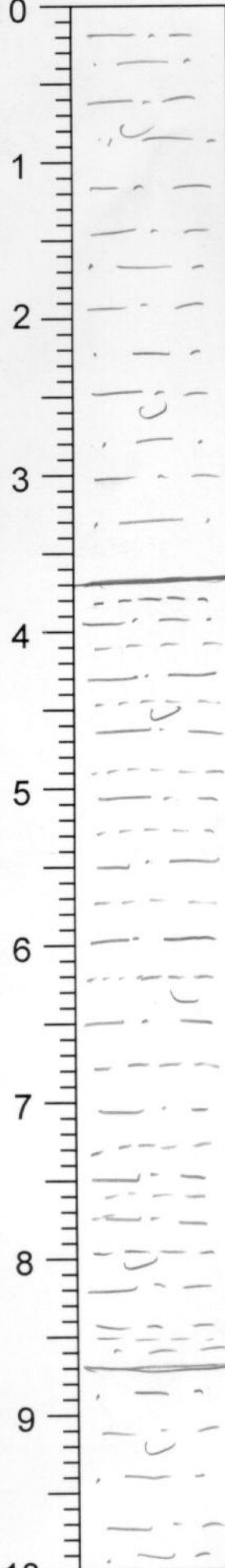
Date

6/13/00

Described by

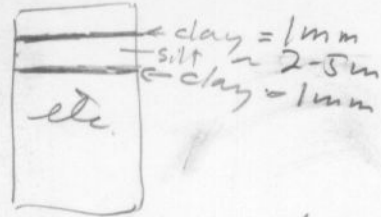
ANB+SP

Feet 0



SILT - clayey, sparse sand; small
thin shell fragments, very rare,
very scattered; a few forams;
laminated throughout
Clay laminae thicken at about 3.7 ft
to about 8.17

lower lower
shoreface
to
offshore?
ANB



The increase in clay thickness
may signal a more distal
environment than the
above

Clay laminae 5 1/2 dark olive
gray
Silt laminae 5 1/2 olive gray

thicker
clay laminae
apparent megascopically

offshore (or lowermost shoreface?)
ANB

10.6

Core Description

**Qj32-27
(174AX BB)**

Core #

183

Start Depth

1150

Stop Depth

1153.5

Recovery %

73

Run Start Time

1435

Run Stop Time

1514

Drilling Notes:

Shoe refusal
at 1153.5

2155 / 315
315 / 2155

Date

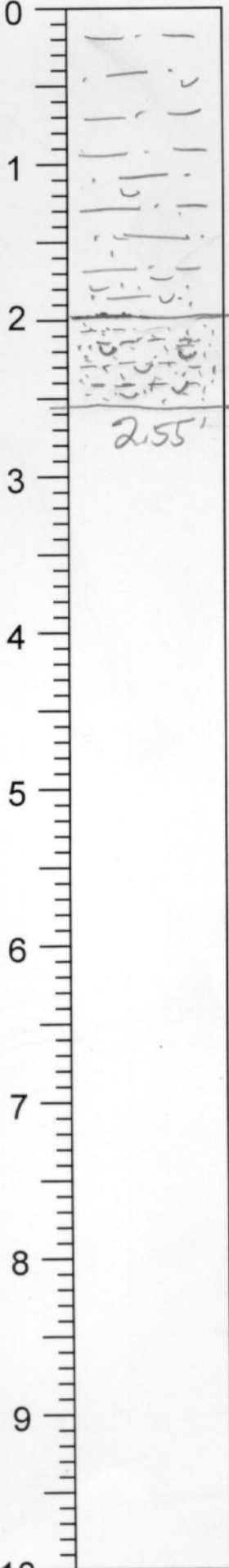
6/13/0

Described by

ANB + PS

Pete Sugarman

Feet 0



SILT, laminated; scattered shell fragments VVR; shells increase to VR/R? below 1.75'
5Y 4/2 olive gray

lower (lower shoreface to offshore) *PMJ*

1.97 - gradational, no sharp contact
at 2.2 subround to sub angular
SAND, m-cse (a few qtz grains), glauconitic (~5%), shelly (mostly fragments) rare; silty; discontinuous "pods" of laminated silt - burrowed??

[is sand burrowed up from below?]

lower shoreface ?? *PMJ*

Core Description

Qj32-27
(174AX BB)

Core #

184

Start Depth

1153.5'

Stop Depth

1160

Recovery %

44

Run Start Time

1535

Run Stop Time

1624

Drilling Notes:

Hard at top, acted
like a clayey sand
below this; lost most
of core at bottom
half of run

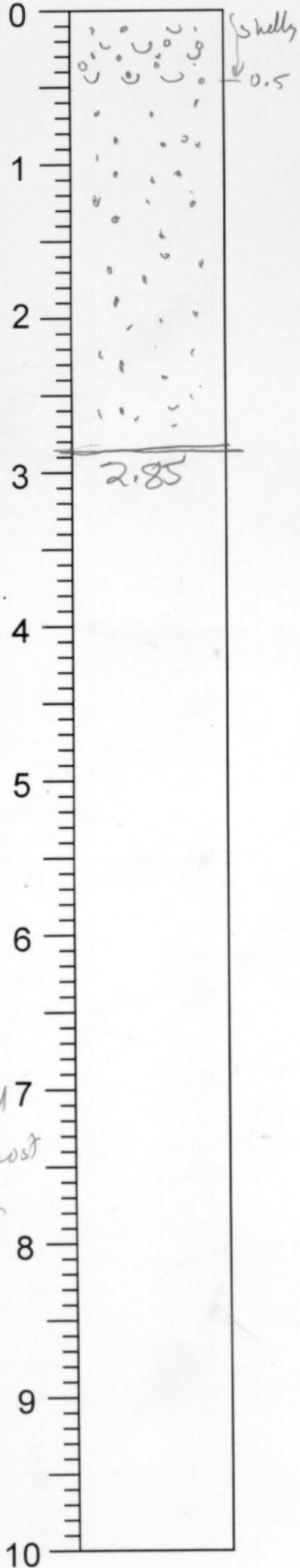
Date

6/13/00

Described by

RVB+PS

Feet 0



SAND, qtz, med-coarse, subrounded,
w/ some granules, grains supported,
sparsely silty, relatively clean, glauconite 1-5%
0-0.5 - coarse (up to 10mm)
shell fragments + some
nearly whole shells - barnacles,
some mollusks; little or no
shell below this.
Glauconite gradually decreases
downward.
SY 3/1 - very dark gray

upper shoreface? *RVB*

10

Core Description

Qj32-27
(174AX BB)

Core #

185

Start Depth

1160

Stop Depth

1165

Recovery %

3

Run Start Time

Run Stop Time

0925

Drilling Notes:

"Mini Me"
Probably lost the
bottom 4.85' when the
core catcher turned
inside out

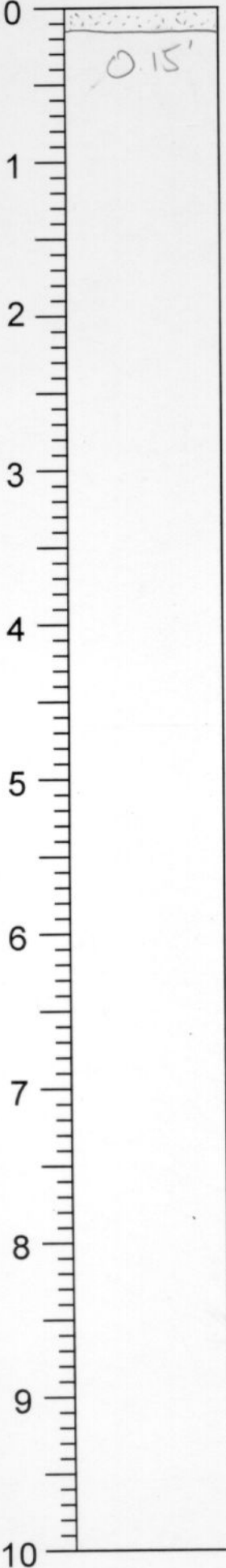
Date

6/14/00

Described by

PPNCL

Feet 0



SAND; med. crs; mod srtg; sbmdd;
in silty (& clayey?) matrix;
color (olive) black 5Y2.5/2

Core Description

**Qj32-27
(174AX BB)**

Core #

186

Start Depth

1165

Stop Depth

1170

Recovery %

93

Run Start Time

1056

Run Stop Time

1130

Drilling Notes:

Date

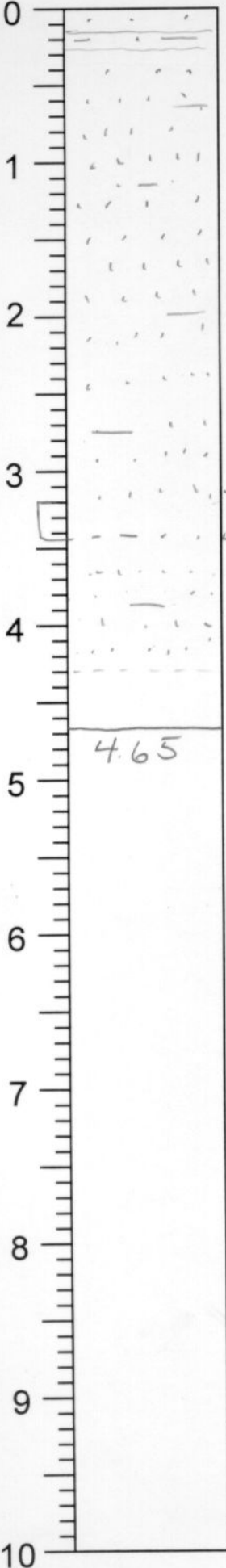
6/14/00

Described by

PPMCL

KGM JCH

Feet 0



SAND; crs (med); mod srt'd; sbrnd-sbang;
 silty; 56Y 4/1 - 5/1 dark greenish gray
 generally massively bedded
 due to bioturbation. (pock marks)
 slightly silty 0.15-0.25
 quartz sand, << 1% dark min. (? glauc)
 probably too silty for aquifer sands

1/2 round water sample

(lower shoreface?
 zone of sand & silt mixed
 by bioturb'n?)

10

**Qj32-27
(174AX BB)**

Core #

187

Start Depth

1170

Stop Depth

1175

Recovery %

45

Run Start Time

1240

Run Stop Time

1335

Drilling Notes:

significant mud
invasion of sands

Date

6/14/00

Described by

PENCE/AH

Feet 0



Core Description

{1wr Shoreface?
clayey sand/
silt?}

SAND; med-crs (some f); mod-poor svtg; sbrnd sbrng;
brownish silty (clayey?) matrix makes slightly more
cohesive (+ less invaded) than below
dark olive gray 5Y 3/2; no bedding or lam evident
(fairly distinct contact)

SAND; f-crs; poor svtg; ang-sbrng-sbrnd;
clean, except for v. fine/silt sized green grains that
smear (glau? chlorite?); interspersed
zones of brown, clayey material similar to lith
above, more toward top - likely burrowing;
subhoriz, mostly, $\phi \sim 10$ mm e less dia.

GLY 1 5G 5/1 to 4/1, greenish gray
to dark greenish gray (lighter than above -
seems to darken w/ time exposed)

fairly dry

(upper to upper lower shoreface?)

Core Description

**Qj32-27
(174AX BB)**

Core #

188

Start Depth

1175

Stop Depth

1180

Recovery %

90

Run Start Time

1415

Run Stop Time

1510

Drilling Notes:

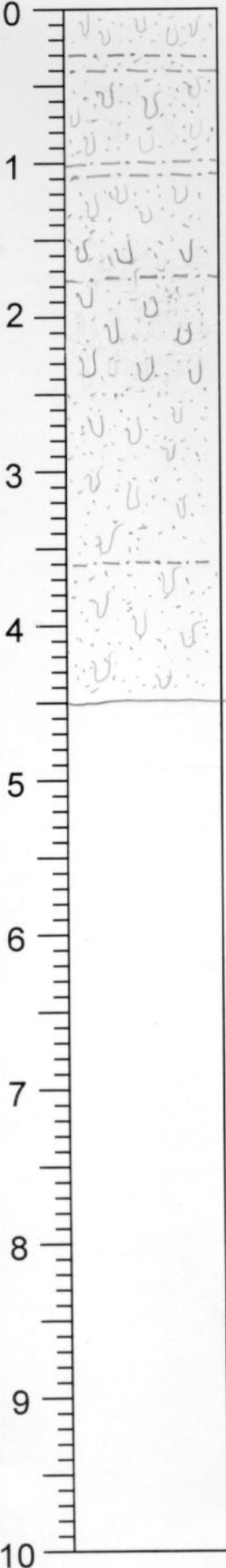
Date

6/14/00

Described by

PPMCL/JH

Feet 0



SAND; f-crs; poor srtg; ang-sbrnd;
 clean except for vyl sand/silt-size green grains
 & interspersed brown zones; some brown
 zones are silty sand beds, some are muddy sand
 filled burrows, upto 10cm dia; bioturbations
 in extensive; sand is fairly dry; silty sands
 & burrows a slightly sticky
 clean sands are greenish gray
 (GLEYS 15G5/1) and silty sands
 zones & burrows are dark olivegray
 (5Y3/2)
 (upper to upper lower shoreface?)

10

Core Description

**Qj32-27
(174AX BB)**

Core #

189

Start Depth

1180

Stop Depth

1190

Recovery %

75

Run Start Time

1537

Run Stop Time

1640

Drilling Notes:

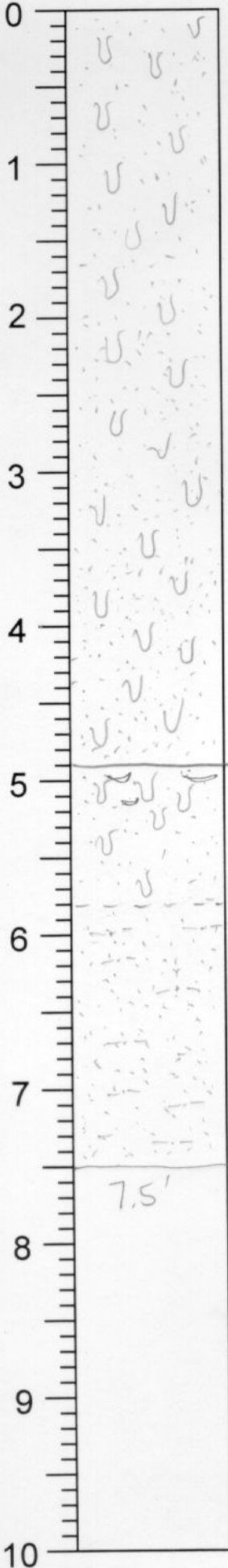
Date

6/14/00

Described by

PPMCL/JH

Feet 0



SAND; greenish gray w/ brown-lined burrows
f-med (some crs, but less than above); poor
srtg; sbang-sbrnd; ^{clean;} up to 25% volume is
burrows; burrows lined w/ silty sand,
brown & sticky; 5-15 mm^{dia}, mostly
horiz to subhoriz; filled w/ cleaner
sand (between siltier walls)
basal 0.2' is muddier, stickier
greenish gray (6G5/1 5G5/1) for
sands; silty burrow linings are
dark olive gray (5Y3/2)
mostly gtz; fairly loose but not
very wet
(upper to upper lower shoreface?)

SAND: brown, w/ greenish-gray burrows @ top
f-med; ^(w/rt) poor srtg; sbang-sbrnd;
very silty, makes sticky; brown color is
dark olive gray (5Y3/2) in upper 0.9';
have burrowing w/ fill of lighter-colored
silt/sand the same color as above
(greenish gray 6G5/1 5G5/1), w/
burrowing decreasing downward
A few weather shells @ top
(lower shoreface w/
burrowing mixing sand & silt beds?)

Core Description

**Qj32-27
(174AX BB)**

Core #

190

Start Depth

1190

Stop Depth

1200

Recovery %

0

Run Start Time

0839

Run Stop Time

0920

Drilling Notes:

Date

6/15/00

Described by

APMOL

Feet 0

1
2
3
4
5
6
7
8
9
10

No recovery

Core Description

"1196.7" → Feet 0

**Qj32-27
(174AX BB)**

Core #

191

Start Depth

1200

Stop Depth

1201

Recovery %

430

Run Start Time

1015

Run Stop Time

1100

Drilling Notes:

drilled 1' w/ shorter

shoe than last run -

something stopped run -

turns out that we filled

barrel w/ material

from Run 190 some

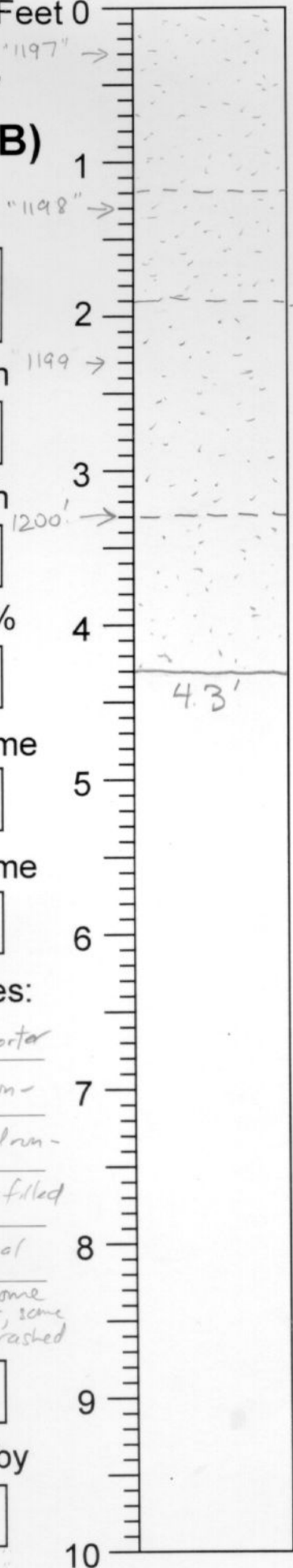
holding together, some

Date trashed

6/15/00

Described by

FRML



SAND; silty brownish sand; mg (w/f - crs);
poor srtg; shnd/sbang; fine weathered shell
material (thin, chalky); sand mostly gtz
dark olive gray (543/2)

chunk 1 - fairly solid, some mud invasion

chunk 2 - mushy, mud invaded

SAND; as above, softer, more mud invaded (damage)

chunk 2 - mushy, mud invaded

chunk 3

SAND; as above, but firmer towards bottom

↑

from prev run interval - mushy top, firm base, continuous w/ below

→ actual point of 1200' depth, probably XX

from present run interval - fairly solid, drier

SAND; mostly mg gtz (some fg, little crs);
silty; fairly dry; some slightly wetter, stickier
zones give mottled appearance (drill mud
invasion? burrows?); fairly firm.

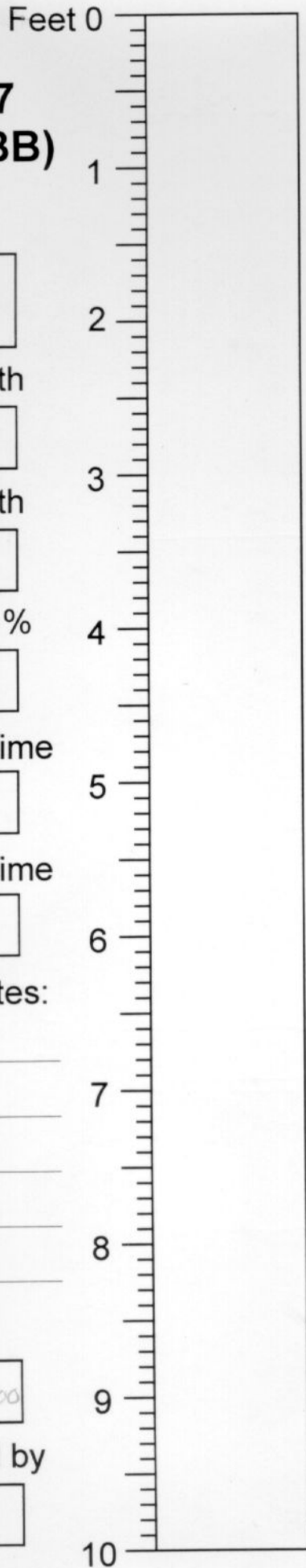
dry material is dark (olive) gray (544/1)
wetter material is dark olive gray (543/2)

4.3'

10

Core Description

**Qj32-27
(174AX BB)**



No recovery

Core #

192

Start Depth

1201

Stop Depth

1210

Recovery %

0

Run Start Time

Run Stop Time

Drilling Notes:

Date

6/15/2000

Described by

10

Core Description

**Qj32-27
(174AX BB)**

Core #

193

Start Depth

1210

Stop Depth

1220

Recovery %

79

Run Start Time

13:15

Run Stop Time

14:00

Drilling Notes:

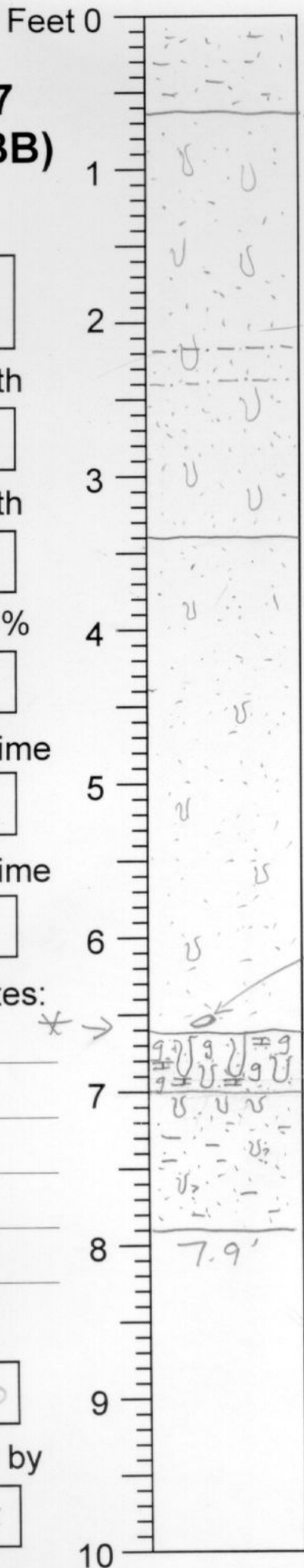
* →

Date

6/15/00

Described by

PPM/L/BSC



SAND; very silty (clayey?) brown sand; mg, mod sortg, sbnd-sbng, soft, musty - possibly material from the last core run; vly small thin shell frags

SAND; mottled w/zones of silty, brownish mg, mod sortg, gtz sand w/ sbnd sbng grains. whitish-gray zones are very silty, f-m grain sand (almost silt supported in places); much of mottling app. burrowing (may be 1-2 siltier laminae); some chalky weathered shell material
brownish color is dark olive gray (SY 3/2)
greyish color is around light gray
GREY 1 N 6/ to gray GREY 1 N 7/

SAND; brownish, silty, f-m sand, gtz, mod sortg, very silty, sticky, rolls like some clay; more common clay material; alternating with same sand but less sticky, drier, esp. in lower part, up to 10 mm thick, ~25% of section; burrowed
dark olive gray (SY 3/2)

Plant material ~ 1ft above indicated zone

5x 25 mm rip up clast of underlying, hardground

silt slightly lighter/grayer
* CONTACT - hardground - SB? FS
SAND; hard calcite cemented silty sand, mostly gtz ~10% glauc; interspersed with probable burrows filled with lighter, silty gtz sand and some zones of very light gray clay/silt
hard cemented material may be a bit broken by burrowing (or drilling if on surf. only)

SAND; very muddy/silty; mostly fg, gtz, mod sortg (some med), trace glauc, upper 0.1' is bioturb'd mixing w/ bed above; fairly homogenous, some slightly clayier zones may represent burrows; dispersed chalky thin shell debris

Core Description

**Qj32-27
(174AX BB)**

Core #

194

Start Depth

1220

Stop Depth

1230

Recovery %

104.36

Run Start Time

1455

Run Stop Time

1537

Drilling Notes:

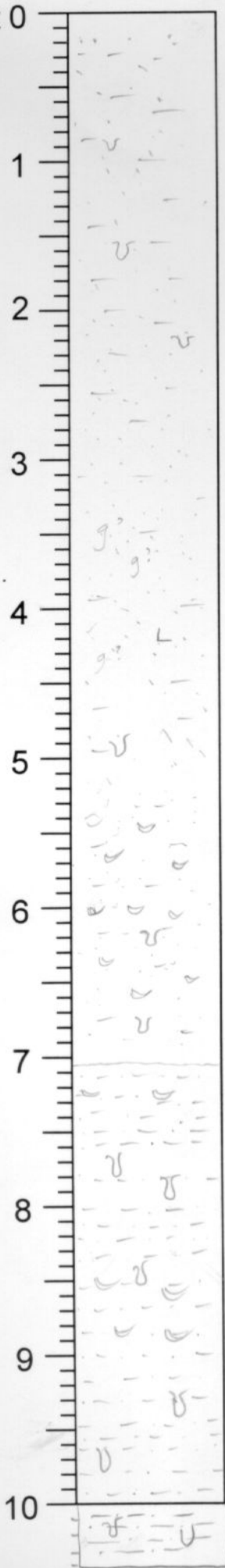
Date

6/15/00

Described by

BSC / PPM/L

Feet 0



SAND
very clayey, silty sand
medium - coarse quartz sand
moderate sorting
major silt/clay fraction, almost clay supported
in places

Some burrows (0.4, 0.6, 1.3, 3.4) clay-filled
no sand or silt in burrows

Few shells
Homogenous, bioturbated
Color: 5Y 3/2 - 5Y 4/2 olive gray - dark olive gray
grades downward to

SAND
very silty, minor clay
fine to medium quartz sand
trace (<1%) glauconite? in very fine fraction
homogenous, bioturbated

scattered lignite from 4.1' to base of core
large chunk at 4.25

shelly - 5m - 20mm long shells
concentrated between 5.3 - 6.65'

Rapid transition to

SILT
sand disappears between 6.9 - 7.1 ft
shell fragments at 7.2 - core broke during drilling
at this level
maybe a trace of glauconite

shelly throughout, concentrated between 8.45 - 9'
Color: 5Y 4/2 olive gray

a fleck or two of plant debris
frequent burrows, at least 2 w/ silty sand fill
mostly obscures faint thin lamination

10.45'

Core Description

**Qj32-27
(174AX BB)**

Core #

195

Start Depth

1230

Stop Depth

1237.5

Recovery %

101

Run Start Time

1608

Run Stop Time

1654

Drilling Notes:

hit rock @ 7.5'
into run -
had to stop there
(core up end of shoe)

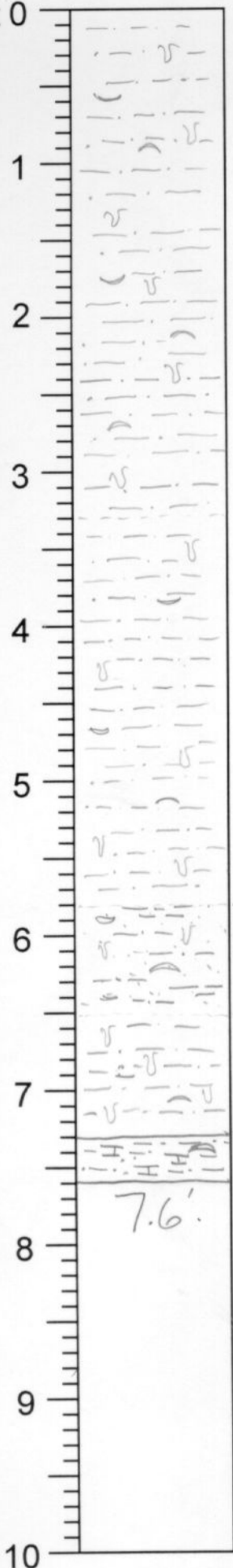
Date

6/15/00

Described by

PMCL

Feet 0



SILT; thinly laminated w/ some thin interlen
vf-f sand; shelly w/ scattered thin-walled
($< 1\text{mm}$) shells throughout; mostly horizontal;
abd burrows, some lined & sand-filled up to
10mm dia; others silt-filled, some smaller
($< 5\text{mm}$)

sandier zone w/in silt facies; silty & clayey w/
f-vf (& some m) sand, mostly gtz, most sbrnd-sbng,

* CONTACT

SILT; hard, calcite cemented, & broken into
small pieces by drilling; rare sand in it
mixed in is a light gray very sticky/runny
silty clay (w/ forams, b. hand lens) - relationship
uncertain due to broken nature.
Some shell material in cemented silt
-> smelled like H_2S
[bottom unit from core catcher]

10

Core Description

**Qj32-27
(174AX BB)**

Core #

196

Start Depth

1237.5

Stop Depth

1240

Recovery %

100

Run Start Time

0930

Run Stop Time

1020

Drilling Notes:

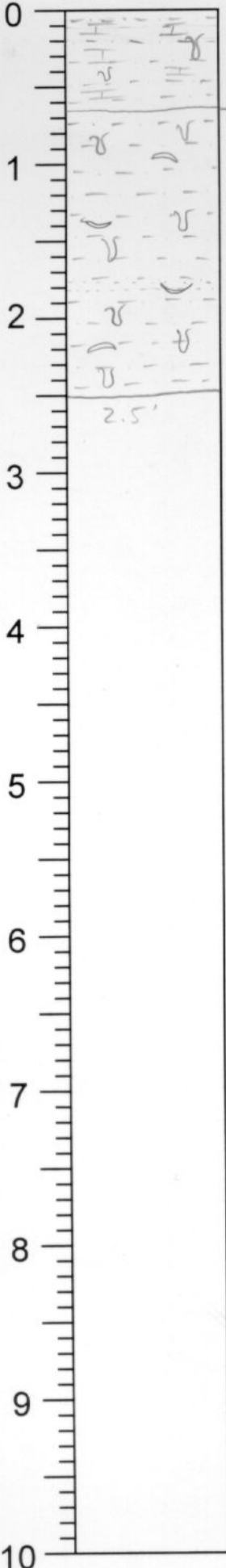
Date

6/16/00

Described by

BSC + PPM/L

Feet 0



SILT
 Indurated (calcite cemented)
 slightly sandy, vt 25% - 40%
 some organic (?) debris
 shells, as large as 10 mm
 Core is fractured in two places with calcite
 infilling the fractures
 Color: SP 7/1 - 2 2/3 light gray - white
 Significant Diatoms: disc-shaped frustules
 as much as 10%
 somewhat bioturbated

SILT
 slightly sandy, vt, ga (<15%)
 slightly clayey
 frequent shells, thin bivalves, as well as 50 mm
 somewhat bioturbated
 laminae evident in places
 Thin (0.5ft) layer of siltier (?) material at 1.75 ft
 Some organic debris
 Color: SP 4 1/2 - 3 1/2 olive gray - dark olive gray
 softer but stiff, fairly dry

Qj32-27
(174AX BB)

Core #

197

Start Depth

1240

Stop Depth

1250

Recovery %

102

Run Start Time

1045

Run Stop Time

1145

Drilling Notes:

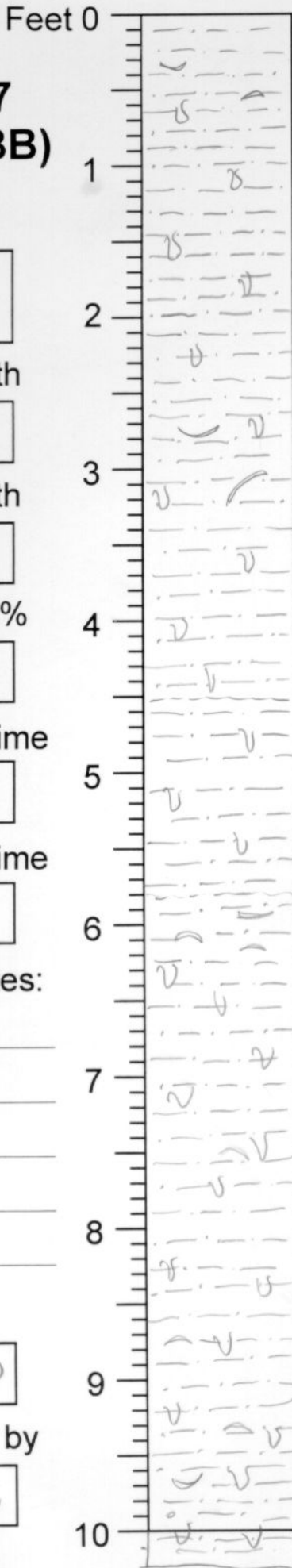
Date

6/16/00

Described by

FDU & BC

Core Description



SILT; thinly laminated, soft but stiff, abundant burrows, somewhat clayey, somewhat sandy (vf-f, ~5%); contains thin shells, scattered, 30-40mm dia, subhoriz to subvert; rare vly small plant frags; 2-3% vf-silt size dark grains (glauco??); most burrows sub-horiz

dark olive gray 5Y 3/2

disturbed section - twisted in coring

10.2'

Core Description

Qj32-27
(174AX BB)

Core #

198

Start Depth

1250

Stop Depth

1260

Recovery %

97

Run Start Time

1155

Run Stop Time

1255

Drilling Notes:

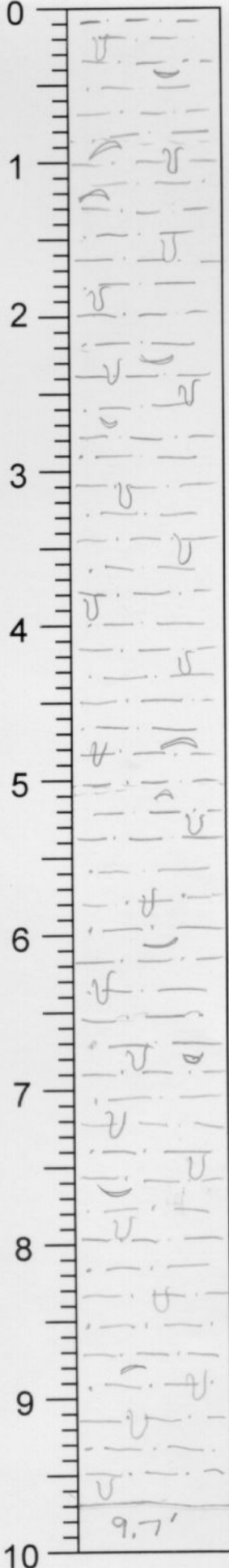
Date

6/16/00

Described by

FP/ML/BC

Feet 0



SILT; as above; sandy (vf, upto ~40% vol but silt supported), clayey (in places thin lam, also in burrows, and matrix slightly clayey); burrowed, some clay filled, some vf sand; shells common, thin walled, bivalves, upto 30-40 mm dia; vf-silt dark grains (glauc??) to 2-3%; very stiff, but still easily cut/broken

Core Description

Qj32-27
(174AX BB)

Core #

199

Start Depth

1260

Stop Depth

1270

Recovery %

103

Run Start Time

0130

Run Stop Time

0220

Drilling Notes:

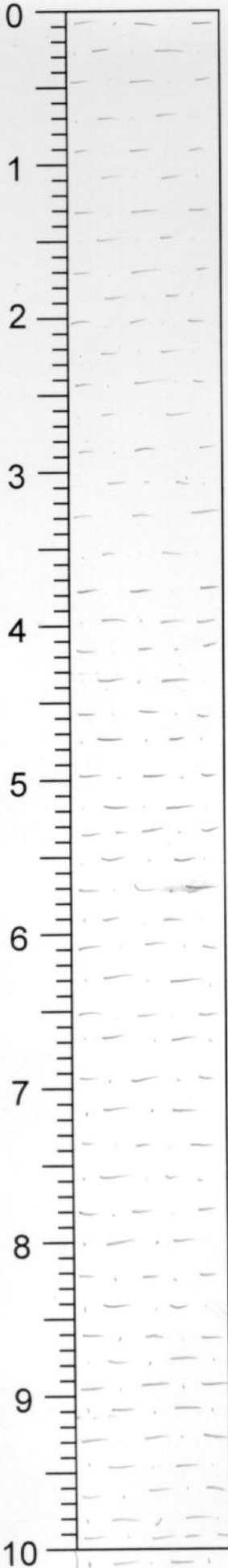
Mud pressure was
high while drilling,
core appears to be
infiltrated with mud
through most of section

Date

6/16/00

Described by

Feet 0



SILT - same as above

sandy - v.f., as much as 40%

upper 3 ft and bottom 1 ft (where core is sheared due to drilling) may be sandier and in some places may be sand supported

some shells

from bivalves, as long as 15 mm

some layers of shell hash, some discrete shells dark gray, silt - v.f. sand (glauconite?)

1-3%, maybe not as much as above

Thick rind on outside of core from 0-3' and 9.3-10.3' - appears the outside of the core was sheared and rotated during drilling

Core Description

**Qj32-27
(174AX BB)**

Core #

200

Start Depth

1270

Stop Depth

1280

Recovery %

94

Run Start Time

2:45

Run Stop Time

3:45

Drilling Notes:

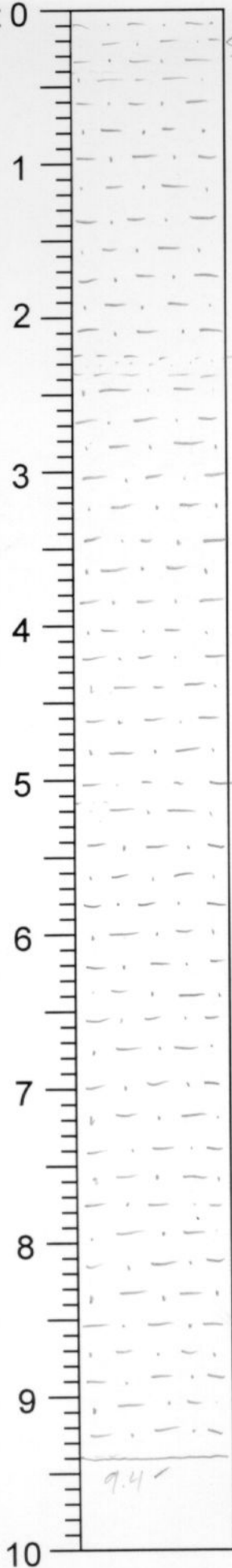
Date

6/16/2000

Described by

BBG/PPM

Feet 0



SILT samens above
sandy, vt g_z, 25-40%
dark grains (glauco), silt - vt sand, 3-5%
shelly throughout, shells may increase downsec
shell hash at 4.4, 7.3, 8.3
thin bivalves
Color SY 3/2 dark olive gray

sandier interbed
vt g_z, 1-2% vt glauc
silty sand (sand supported)

10

Core Description

Feet 0

**Qj32-27
(174AX BB)**

Core #

201

Start Depth

1280

Stop Depth

1290

Recovery %

105

Run Start Time

~1610

Run Stop Time

~1705

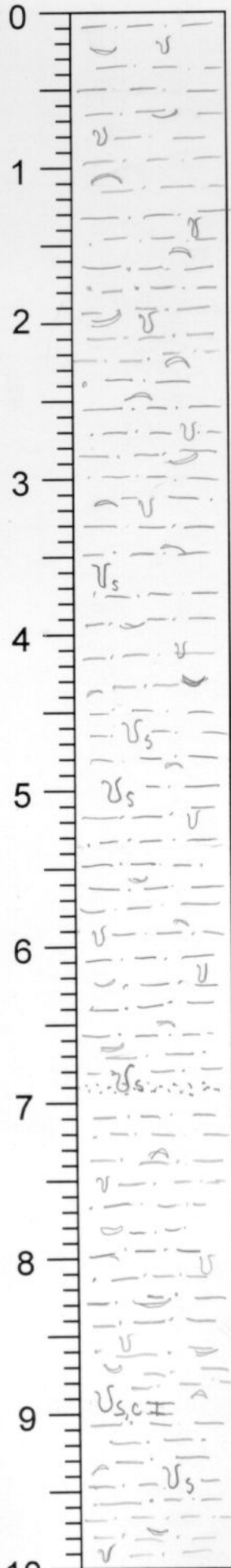
Drilling Notes:

Date

6/16/00

Described by

PPM/BSC



SILT, stiff but cuttable, fairly dry; sandy (~40% v_f sd), slightly clayey in places; thinly laminated, some laminae sandier & some clayier; abd burrows, w/ bioturb disrupting lamination some filled w/ clean sand, some w/ silt or clay; shelly throughout, w/ most appearing to be thin-shelled bivalves; vr plant fragments (woody) (sds w/ a few sand stringers)

U_s = sand-filled burrow 5-10mm dia, v_f sand, fairly clean

thin (~5mm thick) v_f sand

Sand filled burrow where sand is slightly cemented

~10.5'

Core Description

Qj32-27
(174AX BB)

Core #

202

Start Depth

1290

Stop Depth

1300

Recovery %

104

Run Start Time

0833

Run Stop Time

1025

Drilling Notes:

no recovery after
initial run; Gene
reinserted inner
barrel, drilled a few
more inches, & brought
it up

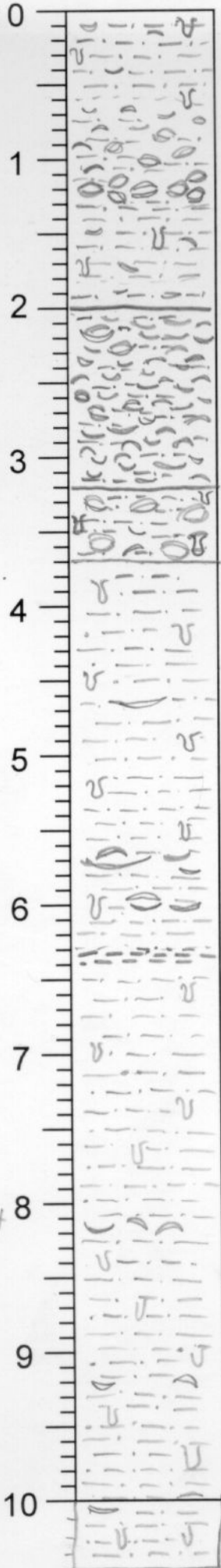
Date

6/17/00

Described by

PPJCL/BSC/JU

Feet 0



SILT; slightly to very sandy (vf); (10-40%)
some faint lamination; c. burrows;
2-3% dark grains (glauco?); shells
thin, 5-10 mm dia
dark olive gray SY 3/2

SILT; ^{vy} clayey, with vy abd shells; shells
comprise 50% intvl vol, & in some zones
>75%; shells thin, 2-10 mm dia,
soft & easily crumbled but many w/ good
pearly luster; sand not signif; a few
yellow-brown grains from ~1 mm - 3 mm
dia, somewhat porous - recryst. old shells?
in place or contam? Shells much more
abd than above but fewer are clearly articulated

SILT; as for top interval

SILT; ranging from clayey to sandy,
in places up to 50% vf sd, in places none;
fairly thinly laminated, lams disrupted
by abd bioturbation; scattered shells,
all thin shelled, range from ~2 mm dia
to ~50 mm; 2-3% darks

dark olive gray SY 3/2

-10.4'

Core Description

Qj32-27
(174AX BB)

Core #

203

Start Depth

1300

Stop Depth

1310

Recovery %

105.5

Run Start Time

11:10

Run Stop Time

12:05

Drilling Notes:

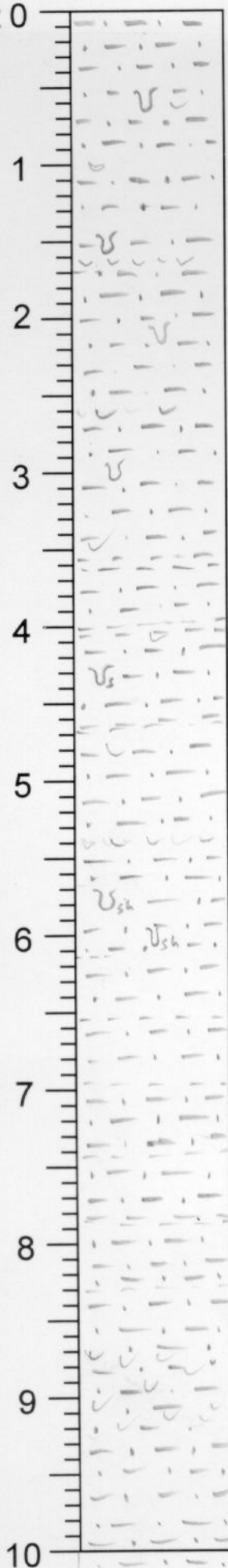
Date

6/17/00

Described by

BSC
RML

Feet 0



SILT

sl. sandy (225%)
very little clay
except for silty clay laminations
laminations are 1-2mm thick

Color: SY 3/2 dark olive gray -
but - lighter than above

1-2% dark (glauco?) grains
more laminated than above, although some
burrows are still present
scattered shells from 0-6.2, few shells
from 6.2-6.0
some plant debris in places

U_s - burrow filled with silty sand

U_{sh} - burrow filled with shell hash

Shell hash - shells are mostly fragments with
few articulated, 1-3 mm size, pearly
lustre preserved, some thicker (21mm) fragments
~50% shell material in this interval

10

10.55

Core Description

**Qj32-27
(174AX BB)**

Core #

204

Start Depth

1310

Stop Depth

1320

Recovery %

89

Run Start Time

~1250

Run Stop Time

~13:45

Drilling Notes:

felt hard zones

while drilling

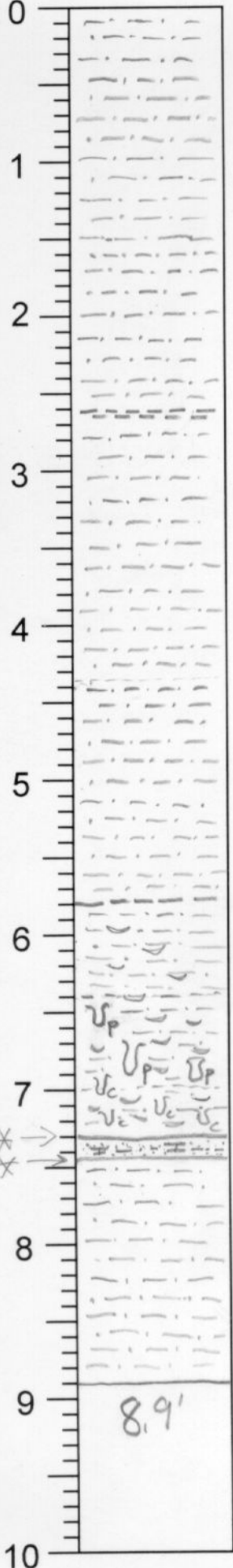
Date

6/17/00

Described by

PPMCL & BSC

Feet 0



SILT; sandy (vf), slightly clayey, well bioturbated; faint thin laminae. Scattered thin shells/shell debris; a few clayier zones; stiff but cut-able
dark olivegray 5Y 3/2

SILT; as above, but w/ abund shells and these important features:

- from 6.4-7.0 ft, large dark brown (black when fresh) phosphate-filled burrows (diag-subvert) up to ~10 mm dia & see ~40 mm length exposed (Up); also slightly smaller lighter gray green vf-f sd calcite-cemented burrows (Uc) in bottom of the phosphate zone (~6.8') to bottom of interval (more horizontal)

SANDSTONE, vf-f, silty, w/ 3-5% darts (silt-vf sd - glauc?); hard, calcite cemented; same light gray-green lith as the burrow fill immed. above.

CONTACT - sand on silt

SILT; as for top, but harder (in some places crumbled from the coring); some small brown streaks/platelets (plant debris?); freezes w/ acid, some some calc. cement makes hard

more likely phosphate shells

**Qj32-27
(174AX BB)**

Core #

205

Start Depth

1320

Stop Depth

1320.3

Recovery %

100

Run Start Time

1405

Run Stop Time

1430

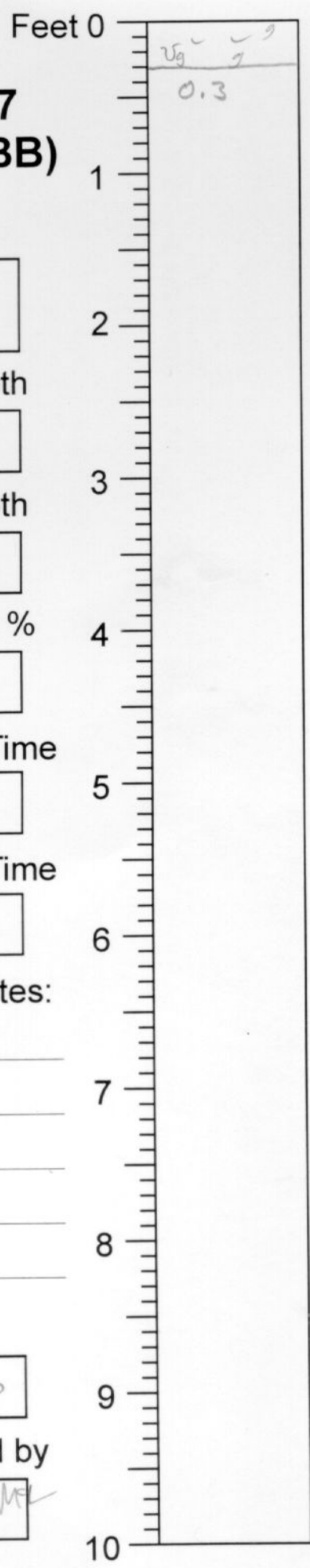
Drilling Notes:

Date

6/17/00

Described by

BSC + PPM



Core Description

SILT; sandy, of 40-50%
 3-5% dark grains (glauco)
 silt - cal size, somewhat coarser
 grains than above
 shell layer (0.2), 10 mm long thin bivalves
 Burrows infilled with glauconitic sand (vg)
 10% glauc.
 hard, semilithified
 (as in above interval)

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

206

Start Depth

1320.3

Stop Depth

1330

Recovery %

58

Run Start Time

1445

Run Stop Time

1605

Drilling Notes:

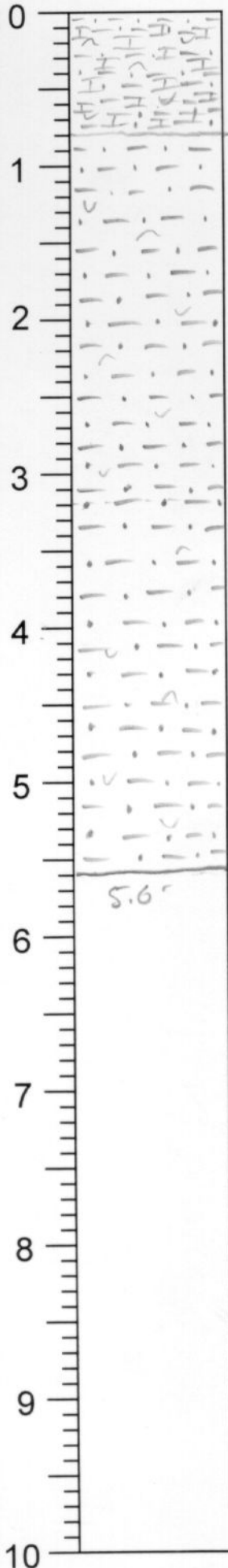
Rock

Date

6/17/00

Described by

BSC/APM/L



SILTSTONE; calcite cemented sandy silts
shelly
fractures? former bivalves? infilled with calcite
dark grains (2-3%) glauco? silt-fsarl size

SILT; hard to very hard in places
30-40% vt sand
~5% dark grains, silt size, glauco?
thinly laminated, moderate bioturbation
few fragments of phosphatized shells
scattered shells + shell fragments
Burrows infilled with slightly sandy material

5.6'

10

Core Description

**Qj32-27
(174AX BB)**

Core #

207

Start Depth

1330

Stop Depth

1340

Recovery %

100.5

Run Start Time

0845

Run Stop Time

0930

Drilling Notes:

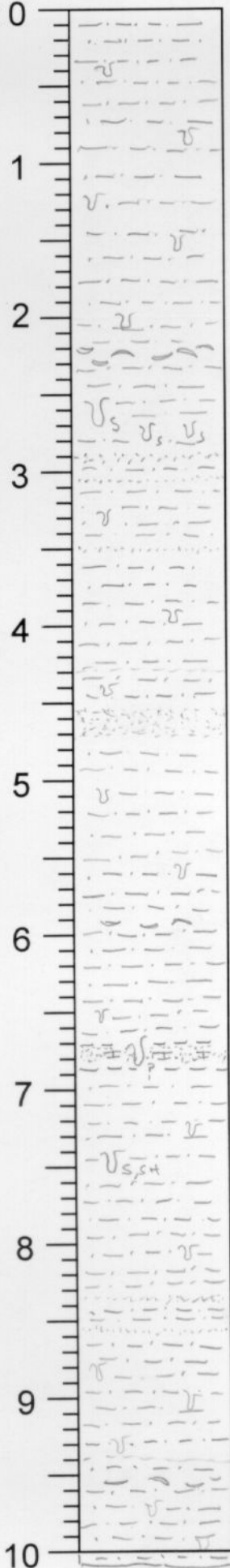
Date

6/18/00

Described by

PPM/L/BSC

Feet 0



SILT; mostly clayey, slightly sandy (~10% vf)
Silt; some interlaminated vf sd up to 25 mm; mostly 2-10 mm; abundant burrows, some vf sand filled, the sand us. incl. vf shell frags. scattered shells throughout w/ a few richer zones; a few thin clay laminae; one partially cemented zone, Calcite cemented (lamina? burrow?) vf sd

] shells rich

sand-filled burrow
thin sand
vy thin sand lam

vy thin sand lam

] sandy zone (several < 25 mm thick vy thin beds

← thin clay lam
partly cemented sand (burrow?), lighter w/ thin sand above
← thin clay lam

shell & sand filled burrow

vy thin sd
v thin sd

10

10.05'

Core Description

**Qj32-27
(174AX BB)**

Core #

208

Start Depth

1340

Stop Depth

1350

Recovery %

102.5

Run Start Time

0955

Run Stop Time

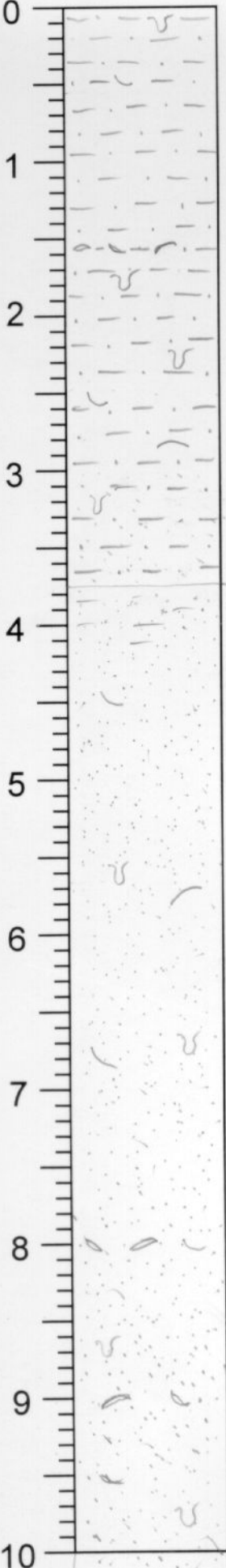
10:45

Drilling Notes:

Date

Described by

Feet 0



SILT, with vf sand laminae (~25%)
 silt contains 30-40% sand, gets sandier downcore
 sand laminae are very silty
 Color: 5Y 3/2 dark olive gray
 Bulky silt filled and sand-filled burrows
 5-10% silty grains (shell frags?) in vf sand Andon
 scattered shells
 3-5% dark grains (glauv?) in vf sand
 heavily bioturbated

gradual transition (1-2ft) to
 SAND; vf, very silty
 silty burrows
 3-5% dark grains (glauv?)
 dk brown flecks (phosphatized shell frags?)
 sand filled burrows can contain 5-10% glauv
 articulated shells common
 heavily bioturbated

10.25'

Core Description

Feet 0

Qj32-27
(174AX BB)

Core #

209

Start Depth

1350

Stop Depth

1360

Recovery %

104.5

Run Start Time

11:05

Run Stop Time

12:10

Drilling Notes:

Date

Described by



SAND; v.f., very silty
scattered shells
vt shell fragments in sand tracts
thin silt lens, sl. sandy
Burrowed, sand and silt filled burrows
inverted, in places undisturbed by burrows
5-10% glau

stacked lens, no burrows,
lens are < 1mm, stacked into ~5mm sets, full bed is ~25mm

shell hash

10.4c
Oxidized shell hash?? 10.2-10.25 - brown material at top overlaying green material, slow flow under tide

Core Description

**Qj32-27
(174AX BB)**

Core #

210

Start Depth

1360

Stop Depth

1370

Recovery %

101

Run Start Time

1310

Run Stop Time

1410

Drilling Notes:

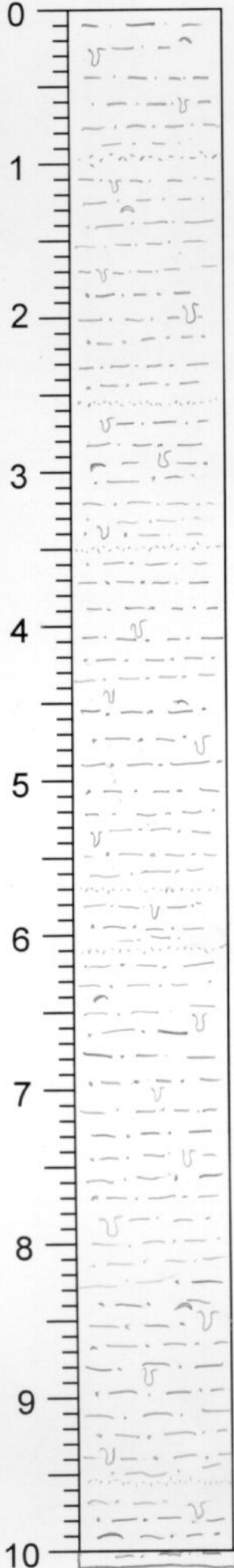
Date

6/18/00

Described by

PNM/BSS

Feet 0



SILT, sandy, and SAND, v^f silty; interlaminated layers of sandy silt w/ upto ~50% v^f sand w/ up to 5-10% dark grains; and, layers of very silty to slightly silty v^f sand w/ 5-10% dark grains; laminae < 1mm to ~2mm thick, in places clearly laminated, in others disrupted by abundant burrowing; a few zones of mostly sand; scattered shell fragments, thin-shelled bivalves, and v^f-size frags in sand-filled burrows; silts are slightly clayey in places. Similar to above cores.

dark olive gray 5Y 3/2

Core Description

**Qj32-27
(174AX BB)**

Core #

211

Start Depth

1370

Stop Depth

1380

Recovery %

105

Run Start Time

1420

Run Stop Time

1535

Drilling Notes:

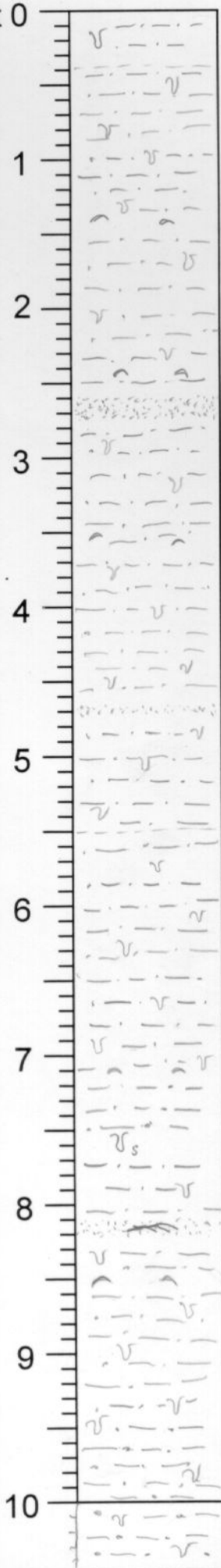
Date

6/18/00

Described by

RPM/H/BSC

Feet 0



SILT, sandy (vf), & SAND, silty, interlaminated.
 Silt is up to 50% vf sd, may be vly slightly clayey; sand is very silty to slightly silty, cleaner zones are very soft & contain up to ~10% shell frags, cross-lam in places; laminae <1mm to 2mm thick, in places laminated sand forms thin beds to 10-25 mm thickness; scattered shells & shell frags of vly thin bivalves, disarticulated; moderate bioturbn w/ some zones little burrowed & some heavily, some sand filled, some clayey silt filled, vf sd is 5-10% darks (glanc?)

dark olive gray 543/2

small cross-lam

10.5'

Core Description

**Qj32-27
(174AX BB)**

Core #

212

Start Depth

1380

Stop Depth

1390

Recovery %

104

Run Start Time

1550

Run Stop Time

1650

Drilling Notes:

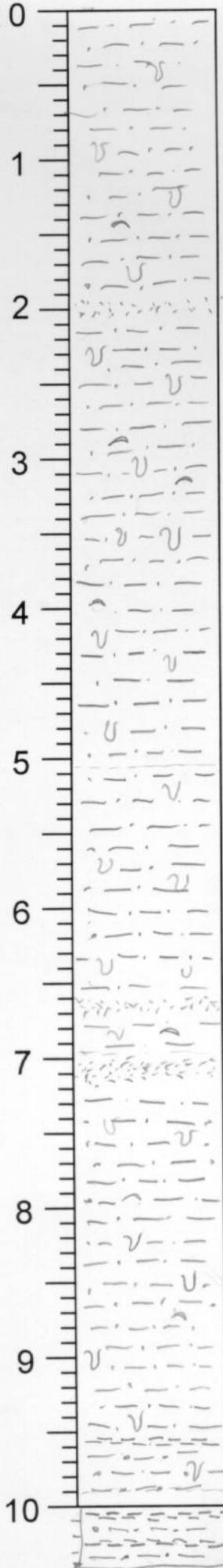
Date

6/18/00

Described by

TPMCL/BSC

Feet 0



SILT: sandy (vf) and lesser interlaminated silty SAND; sim to core 211 but less sand; silt is up to ~40% vf sd, slightly clayey often; sand is very silty to cleaner & slightly silty, all vf, cleaner zones vly soft w/ fine shell debris; laminae 1mm-2mm, w/ sand lams stacking into beds up to 20-30mm thick; occasional shells, less than in above core; moderate bioturbation w/ clayey silt & sand-filled burrows sand ind. common darks (up to 10%) several thin clay laminae near bottom

dark olive gray 5Y 3/2

Core Description

Qj32-27
(174AX BB)

Core #

213

Start Depth

1390

Stop Depth

1400

Recovery %

105.5

Run Start Time

835

Run Stop Time

930

Drilling Notes:

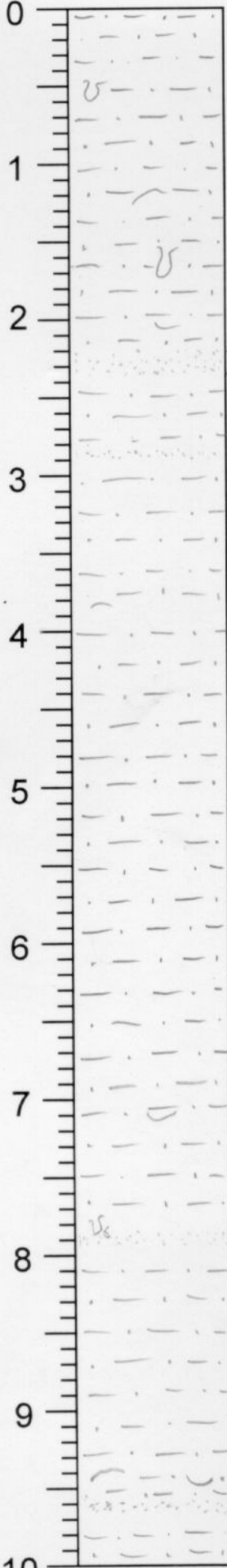
Date

6/19/00

Described by

BSC/BN/TMK

Feet 0



SILT; very slightly sandy, vt. (20%)
3-5% dark silt/vf sand grains glauc?
~10% shell frags in sand
laminated, in places lams are undisturbed, in
places burrowed
lams are ~1mm, don't package into sets
some ex-lams
few clay lams in upper 1.5'
possibly some mica
burrows can be infilled with silty sand (10% glauc)
laminated sand or silt
scattered shells and shell frags.
Color: 5Y 3/2

U - sand filled burrow

10.55'

Core Description

Qj32-27
(174AX BB)

Core #

214

Start Depth

1400

Stop Depth

1410

Recovery %

104.5

Run Start Time

945

Run Stop Time

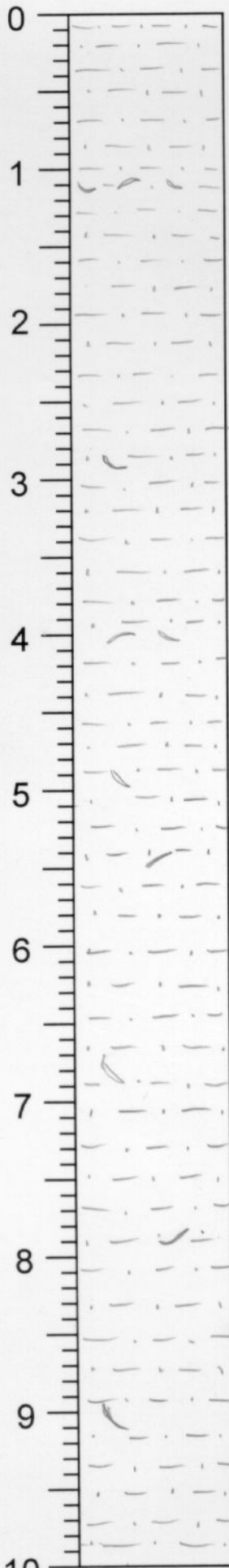
1045

Drilling Notes:

Date

Described by

Feet 0



SILT - very bluish, sandy to slightly clayey
Very slightly sandy (<10%), w/ sand is mostly glauca.

minor mica
some shell frags in sed fracture
Scattered shells throughout (more than last core)
laminated, but burrowed throughout
a few clay lens below 4.1
glauca seems to increase down section

← 10.45 -

Core Description

**Qj32-27
(174AX BB)**

Core #

215

Start Depth

1410

Stop Depth

1420

Recovery %

99

Run Start Time

10:55

Run Stop Time

12:15

Drilling Notes:

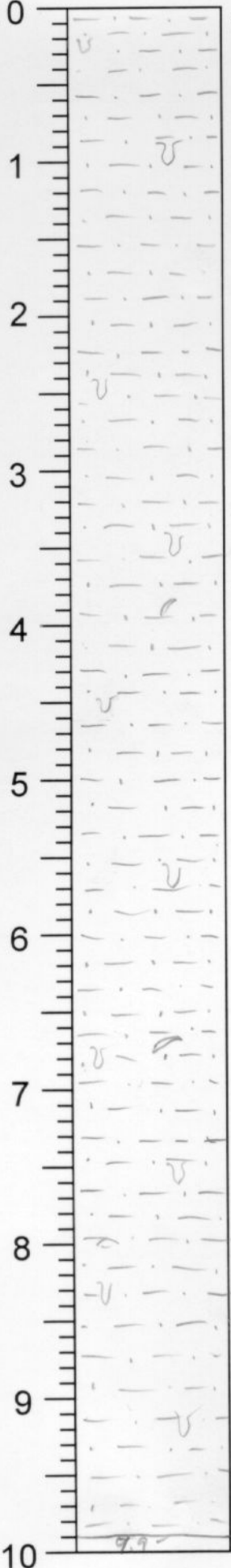
Date

6/19/00

Described by

BSC/dm

Feet 0



SILT: w/ common silty clay lens
 5-10% glauca fine sand
 clay lens are 1-2mm thick, occur ever
 0.5-1.5 ft.
 also silty of sand lens in certain intervals
 (2.8-2.9, 3.2-3.3, 4.8-4.9, 8.9)
 In general, this is harder than above
 Common burrows, infilled with more
 glauca material (up to 20%)
 Few shells and shell frags

10

Core Description

Qj32-27
(174AX BB)

Core #

216

Start Depth

1420

Stop Depth

1429

Recovery %

92

Run Start Time

1300

Run Stop Time

1415

Drilling Notes:

Quit advancing
at 9', cut
run short

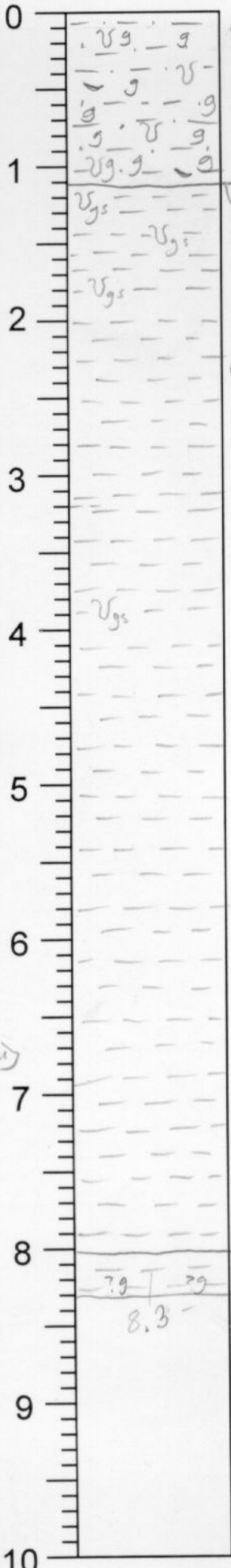
Date

6/19/00

Described by

BSC/DM

Feet 0



SLT. clayey w/ ~40% fine glauc. sand
COLOR: clay color is 5Y 4/2 (olive gray)
rare mica
heavily bioturbated
grades from 10-20% glauc at top to
40-5% at base
also grades less clay (more silty down section)

CONTACT:
non planar (burrowed? eroded?)
bioturbated, burrows extend ~0.8ft below
contact (Vgs)

CLAY:
Color 5Y 4/3-5/2 olive
seems to get darker down section
laminated?, few scattered burrows some
filled with glaucinitic material
Some intervals of darker clay
carbonate rich, but no visible shells

Very bottom is much drier clay
? Glaucinitic clay, but may be a mixture with
drilling mud

Core Description

Qj32-27
(174AX BB)

Core #

217

Start Depth

1429

Stop Depth

1437

Recovery %

98

Run Start Time

1430

Run Stop Time

1600

Drilling Notes:

High pressure
throughout run,
blow pump to
end run

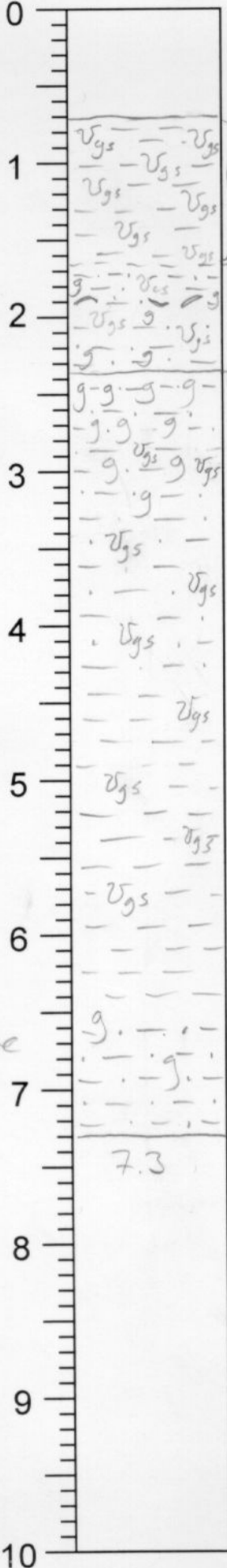
Date

6/19/00

Described by

BSC/DM

Feet 0



Core Hash - some real core mixed with lots of mud

Burrowed Contact zone

Clayey glauco sands burrowed downward into claystone
Unifined, not calcite cemented
Small burrows, 1mm across, as long as 10mm, within claystone

Glauco sad-filled burrows completely break apart claystone, where discrete burrows are visible
(at base of zone) burrows are 5-10mm high and fully penetrate the core.

Colors: Claystone: 10Y 5/1, greenish to gray
Glauco Sad N 2.5, black

Glauconitic siltstone (glauco ~10%, fine sad)
Color Glauco. siltstone: 5Y 3/2, dark olive gray

Shell frags
Glauco sad-filled burrows may be burrowed up or down

Claystone burrows 5mm - 10mm

SILTSTONE; clayey / CLAYSTONE, silty
Top of unit is silt with 10-15% glauco. sad, fine

Glauconite grades out at 3.4, burrows filled w/ glauco sad to 5.8'

Clay from ~4.4 to 6.4'
Silt below ~6.4'

Shells throughout, concentration at 3.1-3.4, 5.1-5.5

3.1-3.4: thick shells, as much as 1mm thick, 15mm long, mostly whole shells
5.1-5.5: thin shells < 1mm, ~20mm long, mostly frags.

Below 6.4, glauco increases in silt / rd sad (1-3%)

10

Core Description

Feet 0

**Qj32-27
(174AX BB)**

Core #

218

Start Depth

1437

Stop Depth

1440

Recovery %

0

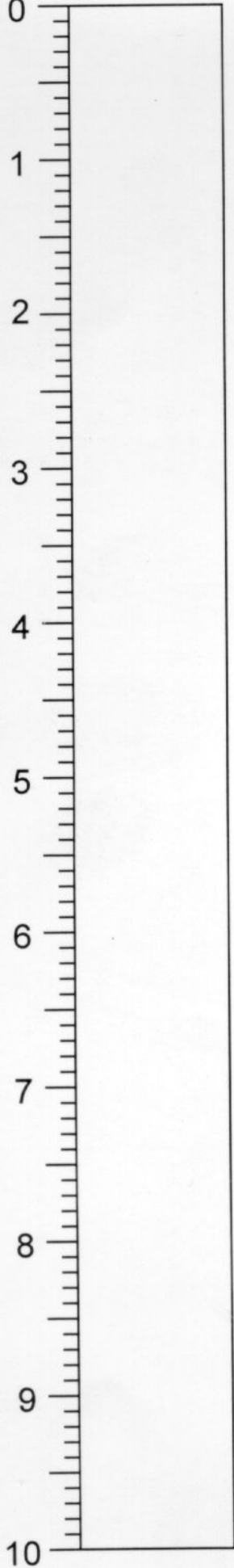
Run Start Time

Run Stop Time

Drilling Notes:

Date

Described by



Core Description

Qj32-27
(174AX BB)

Core #

219

Start Depth

1440

Stop Depth

1445

Recovery %

72

Run Start Time

9:40

Run Stop Time

10:40

Drilling Notes:

Core 218 was drilled
before this w/ 0%
recovery. Core fell through
core catcher

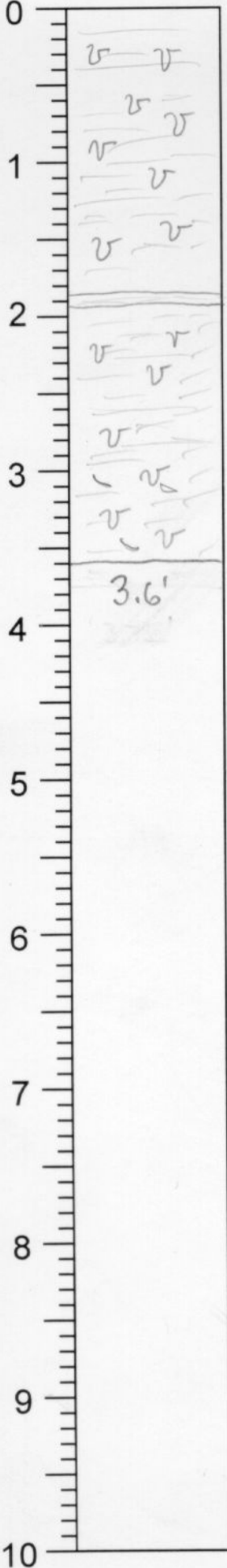
Date

6/20/00

Described by

Don Mankowski
Tom McKenna

Feet 0



CLAY, hard, no sand, highly burrowed, size of
burrows. 2x10mm, rare v. fine shell hash throughout
but more common in upper 0.6';
Silt comprises <10%
rare mica and glauconite (v. fine sand) at base
of unit
dark olive gray SY 3/2

CLAY, from 1.93 - 1.93,
color SY 3/2 dark olive gray

CLAY, hard, slightly silty, highly burrowed, v. small
(≤1mm) shell frags throughout, large shells (4x18mm)
become more common below 2.9'
color SY 3/2 dark olive gray

3.6'

10

Core Description

**Qj32-27
(174AX BB)**

Core #

220

Start Depth

1445

Stop Depth

1450

Recovery %

130

Run Start Time

1115

Run Stop Time

1200

Drilling Notes:

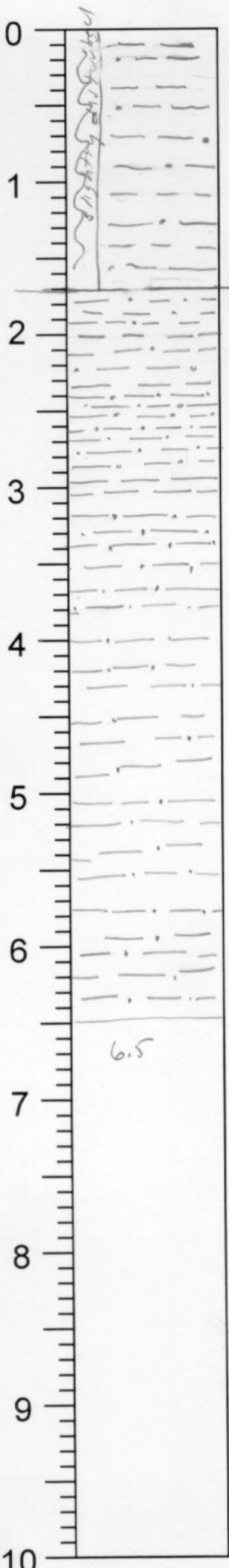
Date

6/20/00

Described by

DHM
KGM

Feet 0



CLAY, silty/SILT, clayey, core broken up due to high

This level is probably 1445' v. fine shell frags <1m throughout, trace v. fine qtz sand, rare v. fine glauconite

1.7-2.35 silty CLAY

2.35-2.9 clayey SILT, slightly higher concentration shells

2.9-3.1 silty CLAY

3.1-6.5 clayey SILT to subordinate silty CLAY

silty clays differentiated from clayey silts by v. fine laminae in the clayey silts

5Y 3/2 dark olive gray

Partings are a probable drilling artifact of overpressured zone (800 psi)

6.5

7

8

9

10

Core Description

**Qj32-27
(174AX BB)**

Core #

221

Start Depth

1450

Stop Depth

1454

Recovery %

86

Run Start Time

1240

Run Stop Time

1340

Drilling Notes:

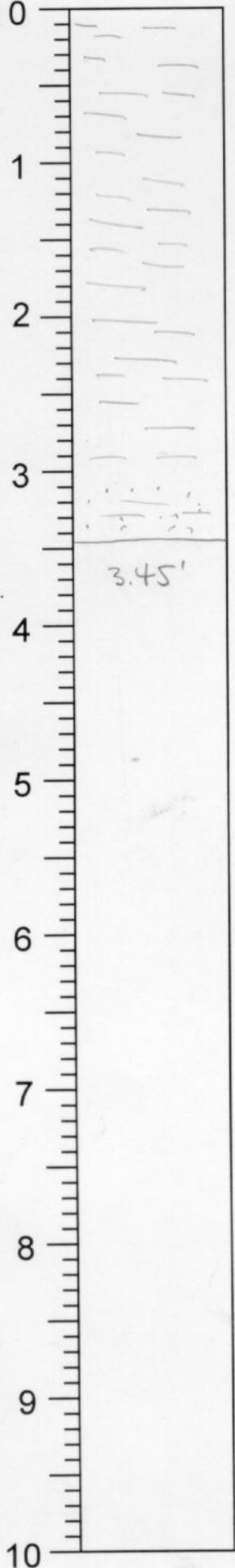
Date

6/20/00

Described by

DHM
KGM

Feet 0



CLAY, glauconite grading down to SAND,
glauconite, clayey. Glauconite content increases downward
top is ≈ 1% glauconite
1.2 is ≈ 5% glauconite
2.6 is 7% glauconite
2.7 is 10% glauconite
3.2 is 80% glauconite
glauconite is medium sand, admixture of brown and
green particularly at the base.
trace quartz sand
highly laminated throughout
disseminated shell fragments throughout
color 5Y 4/2 olive gray

Core Description

**Qj32-27
(174AX BB)**

Core #

222

Start Depth

1454

Stop Depth

1460

Recovery %

103

Run Start Time

14:20

Run Stop Time

14:55

Drilling Notes:

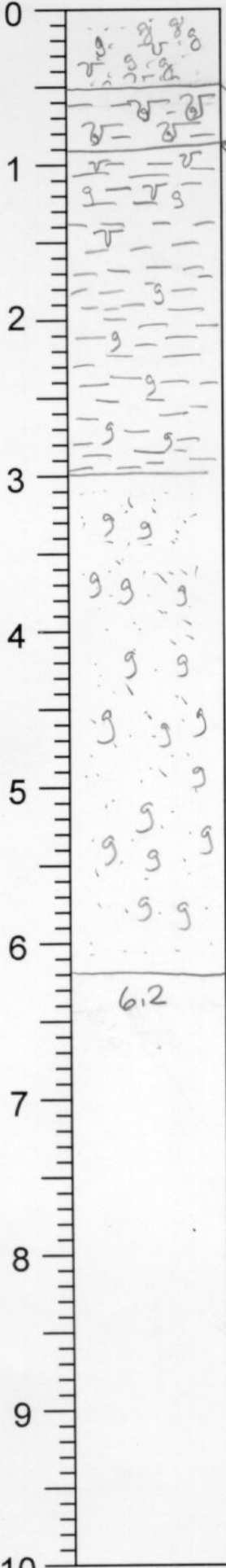
Date

6/20

Described by

Kgm
DHM

Feet 0



SAND, clayey glauconite, heavily burrowed, fine grained, trace quartz sand, common brown

weathered glauconite
0.5 SEQUENCE BOUNDARY
contact zone glauconite SAND burrowed into
CLAY 2.5T 3/2 very dark grayish brown

CLAY, glauconitic
Common burrows down to 1.5 filled with glauconite
shell fragments (<1mm) throughout
trace mica?
2.5T 3/2 very dark grayish brown.

SAND, glauconitic, clayey
microfossils and weathered brown glauconite, in addition
to dominant green glauconite
trace quartz

5T 25/1 black

6.2

10

Core Description

Qj32-27
(174AX BB)

Core #

223

Start Depth

1460

Stop Depth

1470

Recovery %

Run Start Time

15:45

Run Stop Time

17:00

Drilling Notes:

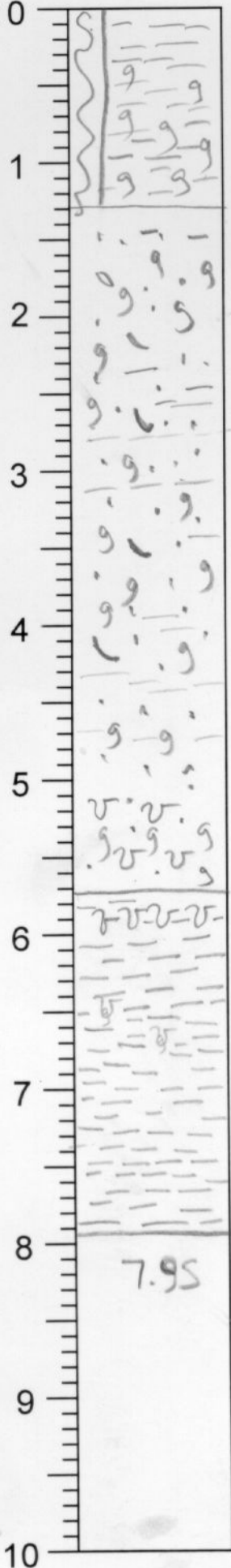
slow in
lower part

Date

6/20/00

Described by

Feet 0



Mixed material, could be drill wash due to high pressure drilling and core barrel extrusion
CLAY, glauconite

SAND, clayey to glauconitic CLAY, fine to medium grained
shelly down to 4.4', Microfossils apparent
no weathered brown glauconite noted, all glauconite is black and green.
clay below is burrowed up to 5.1'
color 2.5T 2.5/1 black

SEQUENCE BOUNDARY
CLAY, foraminiferal clay, top highly burrowed down to 6', sporadic burrows down to 6.9'
burrow fill is glauconitic sand,
clay is laminated, v. slightly micaceous, slightly glauconitic
resembles Abscon Inlet Fm of New Jersey (Eocene)
color 5Y 3/2 dark olive gray