330570

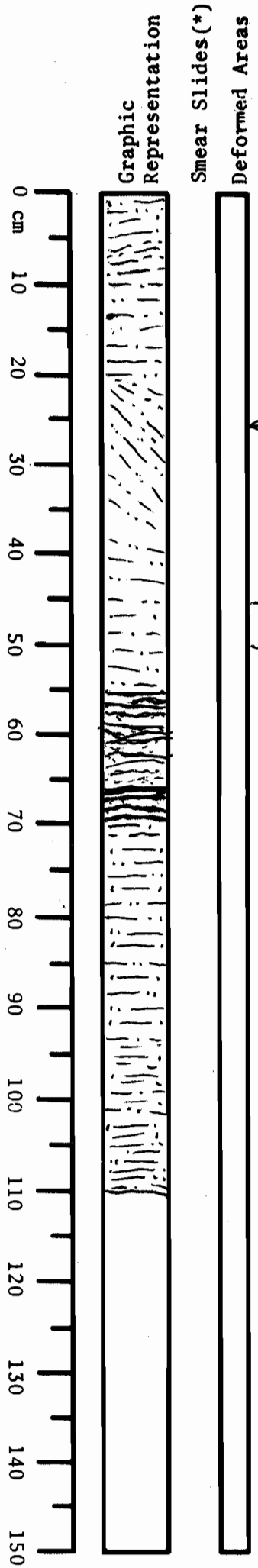
12/10/75

VISUAL CORE DESCRIPTION

1000' - 1015'
309.8 m - 309.4 m

LEG	SITE	HOLE	CORE	SEC
6	001		87	1

OBSERVER
EGAW



SANDY CLAYEY SILT, LT. GRAY (10YR 7/1), INDURATED, BEDDED

15cc
30cc
PALEO

POROSITY - PERM. SAMPLE
46-49cm WHOLE CORE

ZONE OF ALTERNATING BLACK CLAY AND GRAY LAYERS

SAME AS TOP OF SECTION EXCEPT NOT INDURATED, MICACEOUS

FAINT LAYERING

12/10/75

330570

LEG	SITE	HOLE	CORE	SEC
6	0 0 1		8 7	2

OBSERVER: JCH

VISUAL CORE DESCRIPTION

1000'-1015'
304.8m-309.4m

Graphic Representation | Smear Slides(*) | Deformed Areas

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

SAND, FINE TO MEDIUM, SILTY, MICACEOUS
LT. GRAY 5YR 7/1, SOFT

1500

LAMINATED GRAY CLAYEY SAND + LIGNITIC BEDS
INDURATED ZONE HIGHLY MICACEOUS
PYRITE NODULE
PLASTIC BAG SAMPLE (MINERALOGY)

CLAY, SLIGHTLY SILTY
BLACK MASSIVE

PALYN

3000
1500

FINELY
LAMINATED GRAY + BLACK SILTY CLAY

ZONE OF FINE SAND, GRAY 5YR 6/1

FINE SAND, GRAY AT BASE

330570

12/10/75

VISUAL CORE DESCRIPTION

1000' - 1015'
304.8m - 309.4m

~~LEG~~	SITE	HOLE	CORE	SEC
	600	1	87	3

OBSERVER
JSH

FINELY LAMINATED DARK GRAY (10YR 3/1) CLAY AND LIGHT GRAY (10YR 7/1) FINE SAND + SILT LAMINAE <1 mm to 3 mm

FAINTLY LAMINATED (LESS COLOR DIFFERENCE) DARK GRAY (10YR 4/1) SILTY CLAY

GRADING TO NEARLY MASSIVE VERY DARK GRAY (10YR 3/1) SILTY CLAY

BLACK (10YR 2/1) LAYER AT BASE, SECTION BREAK AT THIN LT. GRAY (10YR 6/1) SILT STRINGER WITH LIGNITE SCRAPS

(NO SAMPLES TAKEN)

12/10/75

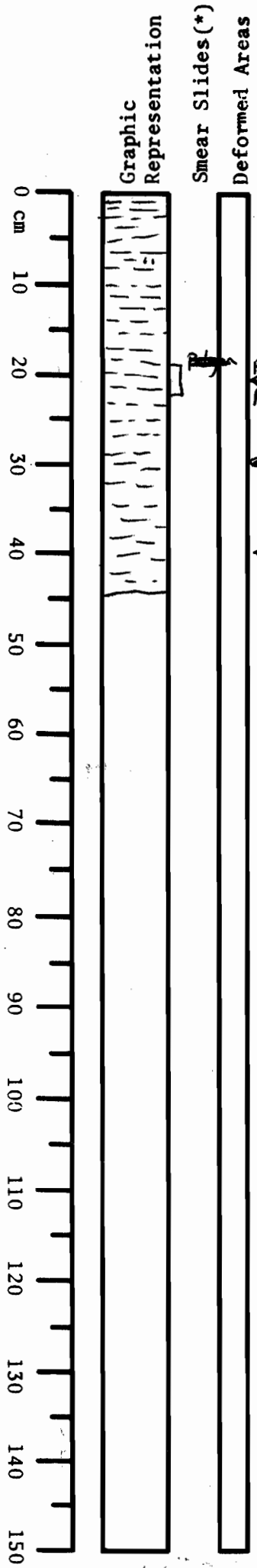
330570

LEG	SITE	HOLE	CORE	SEC
6	0 0 1		8 7	-4

OBSERVER

VISUAL CORE DESCRIPTION

1000 - 1015 ft
(304.8 - 309.4 m)



PALYN
PALEO

← 15cc
30 cc ✓

← SQZR
SALINITY 4.7 ‰

dk olive gray (5Y 3/2) micaceous
sl silty clay, distinct discont laminations
thin silty partings, feldspathic (?)
carbonaceous frags. plastic, to
crumbly.

330570

12/10/75

VISUAL CORE DESCRIPTION

1015 – 1030 ft

LEG	SITE	HOLE	CORE	SEC
6	0 0 1		8 8	- 1

OBSERVER
JS - PV

Graphic Representation | Smear Slides(*) | Deformed Areas

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

hydro carbon sample 15 cc / 30 cc

Paleo Palyn Samples

sl silty c

dk olive gray 5Y 3/2 to black 5Y 2.5/2 clay with a hackly fracture, plastic, massive, scatter pyrite paper thin silty partings of carbonaceous debris and mica

~~hydro carbon sample~~

non calc siltstone gray 5Y 5/1 well indurated sl sandy, massive, subconcoidal fracture, dense, micaceous

THIN-SEC. SAMPLE 100-104 cm

12/10/75

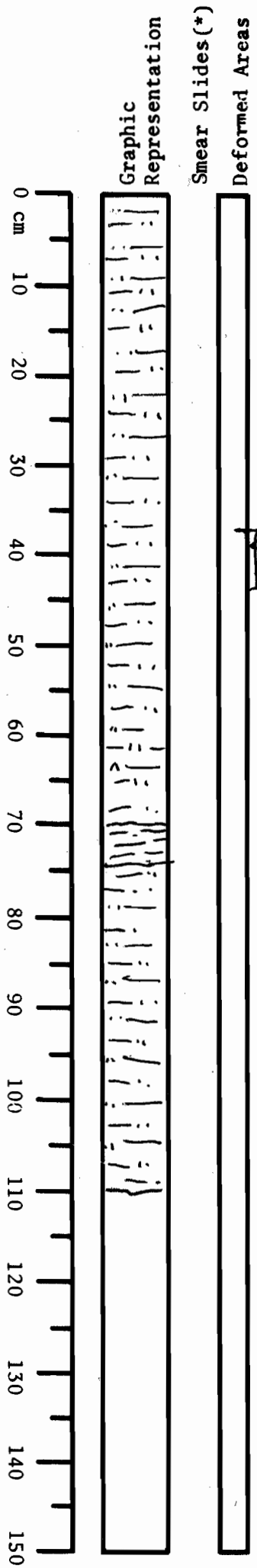
330570

LEG	SITE	HOLE	CORE	SEC
6	001		8	8-2

OBSERVER
JS-PV

VISUAL CORE DESCRIPTION

1015 – 1030 ft



30cc palyn
30cc palco #

black (5Y 3/2
discont laminated (flaser laminated) dk gray
+ gray silt, sandy + clay micaceous
plastic, + fine gr sandy intercalations
massive silty clay, black (5Y 2.5/1)

discont flaser laminated silty, sand silt
dk gray (5Y4/1) fine qtz sandy intercalations

330570

Dec 10, 1975

VISUAL CORE DESCRIPTION

LEG	SITE	HOLE	CORE	SEC
6	001		88	-3

OBSERVER
JPV

1015-1030 ft

BK carbonaceous part 1 cm

Graphic Representation | Smear Slides (*) | Deformed Areas

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

30cc Paleo
30cc Palyor

HYDRO-CARBON SAMPLE

gray (5Y 6/1) sl ~~sl~~ silty massive crumbly, clay break with roughhackly fracture, non calc, extremely thin webs of carbon thru clay

Very dark grayish brown (10YR 3/2) micaceous silt clayey; sl sandy ~~sa~~ speckled appearance in low 15 cm due to carbonaceous bits + lt yellowish gray mini spherules 1/m mm in size

← SQZR
SALINITY 4.65 ‰

330570

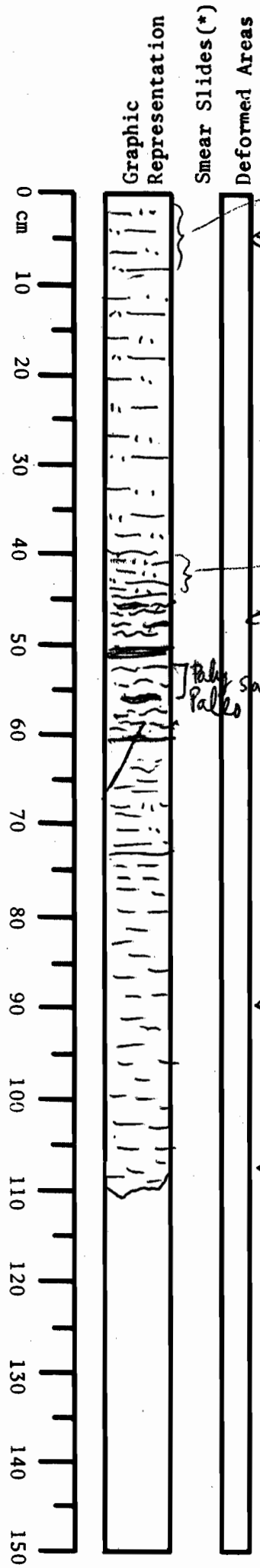
Dec 10, 1975

LEG	SITE	HOLE	CORE	SEC
6	001		88	-4

VISUAL CORE DESCRIPTION

1015 - 1030 ft

OBSERVER
[illegible]-PV



yellowish gray spherules

← 30cc
30cc

lt brownish gray 10 YR 6/2 sandy to clayey silt with mini-sperules in upper 10-15 cm sl. micaceous, scattered carbon specks

clayey silt, sl sandy, micaceous massive, grayish brown 10Y 5/2 indistinct contact lebove, s

← warped sandy and clayey carbonaceous layers clayey silty; abundant mica; layers ½ cm or less thick, plastic to crumbly.

sl silty clay, ~~[illegible]~~ crumbly, dk grayish brown (2.5Y 4/2) speckled with angular clay galls + fractures by a small fault (1-2cm)

massive dk gray (10 YR 4/1) sl silty clay crumbly, structureless

← 30cc
30cc

← SQZR - SALINITY 7.5 ‰

330570

Dec 11, 1975

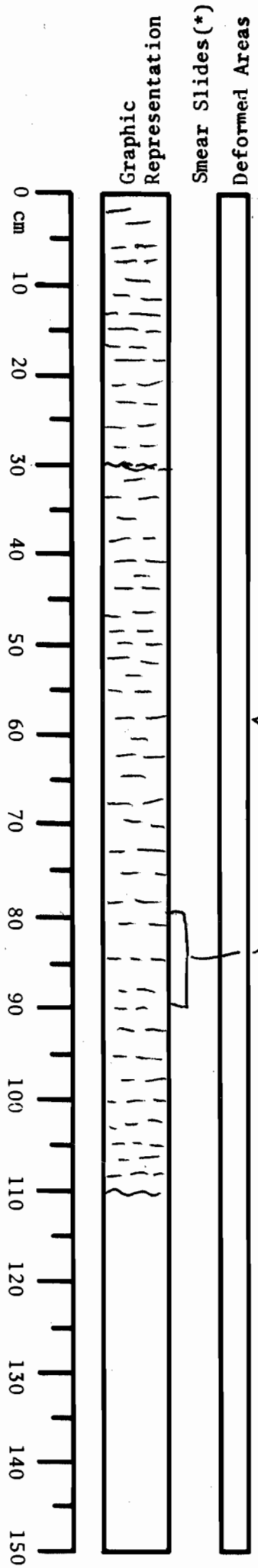
VISUAL CORE DESCRIPTION

1030 – 1046 ft

LEG	SITE	HOLE	CORE	SEC
			89	-1

OBSERVER
PV-JS

Graphic Representation | Smear Slides(*) | Deformed Areas



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

Massive lt brownish gray, 2.5Y6/2 sl. silty clay
sub-concoidal fractures, carbon specks

pale yellowish pink thin stringer of carbonaceous seams + clay.

30 cc
30 cc

hydro carbon sampler
80–90 cm.

330570

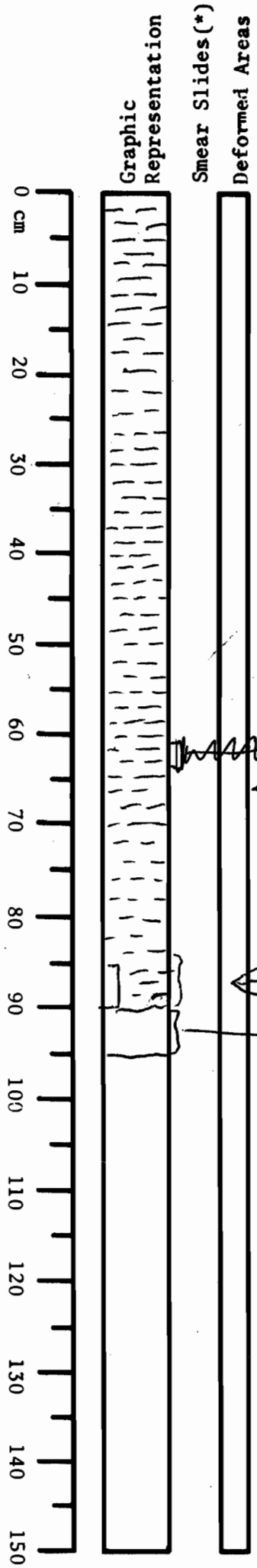
Dec 11, 1975

VISUAL CORE DESCRIPTION

1030 - 1046 ft

LEG	SITE	HOLE	CORE	SEC
6	0001		89	2

OBSERVER
DV-JS



(5Y 5/1)
gray sl. streaky (indistinct laminations)
sl silty clay, carbon specks, a few silty partings.

← SQZR - SALINITY 5.6 ‰

← 30cc very DK gray 5Y 3/1 silty clay, plastic, to fissile
30cc

hard non ~~C~~calcareous silty claystone, well indurated gray (5Y 5/1) faint indistinct ~~bedding~~ lamination, at base it becomes less well indurated and darkens in color. Concoidal fracture

330570

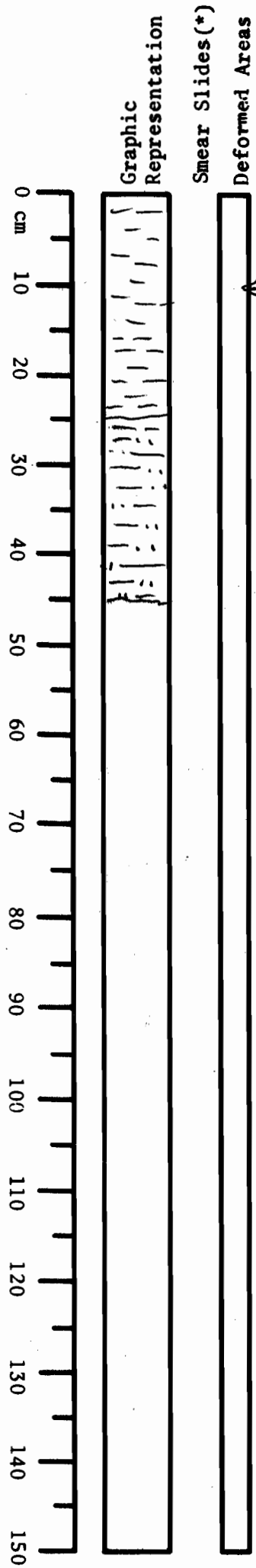
Dec 11, 1975

VISUAL CORE DESCRIPTION

1030 - 1046 ft

LEG	SITE	HOLE	CORE	SEC
6	001		89	-3

OBSERVER
Y -PV



← 30cc
30cc

SI silty clay, faintly laminated, dk gray 5Y 4/1
carbonaceous streaks, crumbly
gradational to well indurated
sandy siltstone 5Y 6/1 gray
qtzose, non calc, faintly laminated,
micaceous,

thin section sample

330570

Dec 11, 1975

VISUAL CORE DESCRIPTION

1046 - 1057 ft

LEG	SITE	HOLE	CORE	SEC
	6001		10-	1

OBSERVER: PV-JS

Graphic Representation | Smear Slides(*) | Deformed Areas

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

30cc
30cc

sl sandy clayey silt, laminated plastic poorly indurated, carbonaceous + micaceous rich laminate, very dark gray 5Y 3/1

silty clay, crumbly, micaceous, massive dk gray 5Y 4/1

SQZR - SALINITY 9.3‰

BK (5Y 2.5/1) carbonaceous(?) clay with thin silt (lt gray) partings, plastic faintly laminated, no odor.

Paly
Paly

330570

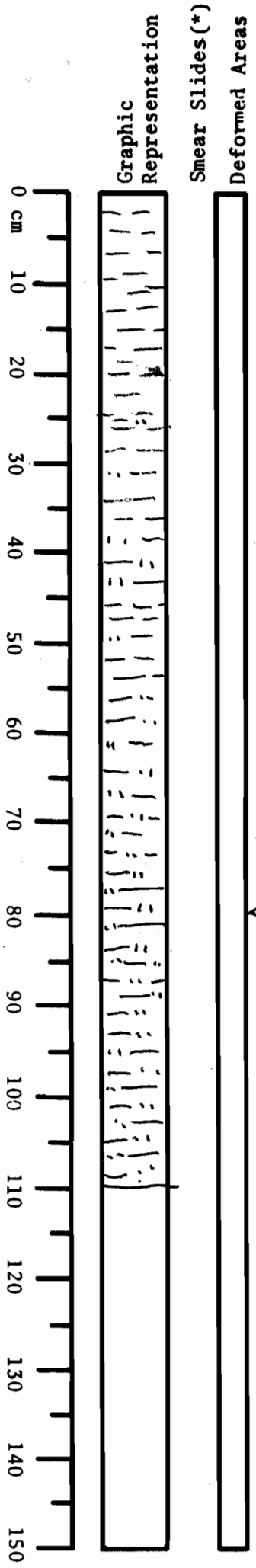
Dec 11, 1975

VISUAL CORE DESCRIPTION

LEG	SITE	HOLE	CORE	SEC
6	001		90	-2

OBSERVER
JS - PV

1046 – 1057 ft



BK (5Y 2.5/1) sl. silty clay crumbly massive, grading between 20 + 55 cm to clay, sand silt, lt olive gray 5Y 6/2 micaceous fractured crumbly, scattered qtz sand grains, mica, scattered clay galls and carbonaceous discolorations 90-100cm Sandiest at base of core.

<30cc
30cc

330570

Dec 11, 1975

VISUAL CORE DESCRIPTION

1046-1057

LEG	SITE	HOLE	CORE	SEC
6	001		90	-3

OBSERVER
[illegible]-PY

Graphic Representation | Smear Slides(*) | Deformed Areas

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

like lower part of 90-2, ie gray 5Y 6/1 clayey sandy silt massive to faintly laminated, fairly sharp lower boundary at 65 cm

← 30cc
30cc

laminate very dk gray (5Y 3/1) sl. silty clay with paper thin discont sandy silt laminations 1/4 - 1/2 cm apart., plastic

] palynology & paleo samples

330570

Dec 11, 1975

VISUAL CORE DESCRIPTION

1046 - 57

LEG	SITE	HOLE	CORE	SEC
6	001		90	- 4

OBSERVER
PV

Graphic Representation | Smear Slides(*) | Deformed Areas

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

non calcareous massive well indurated gray (5Y 5/1) silty clay siltstone micaceous, 0-10 cm, gradational contact to

very dark gray (5Y 3/1) crumbly, indistinctly laminated sl. silty clay, trace sand.

massive well indurated, sandy siltstone (43-47 cm) qtzose. dk gray (5Y 4/1)

30cc
30cc

very dk gray (5Y 3/1) silty clay, indistinctly laminated, crumbly, fractured

330570

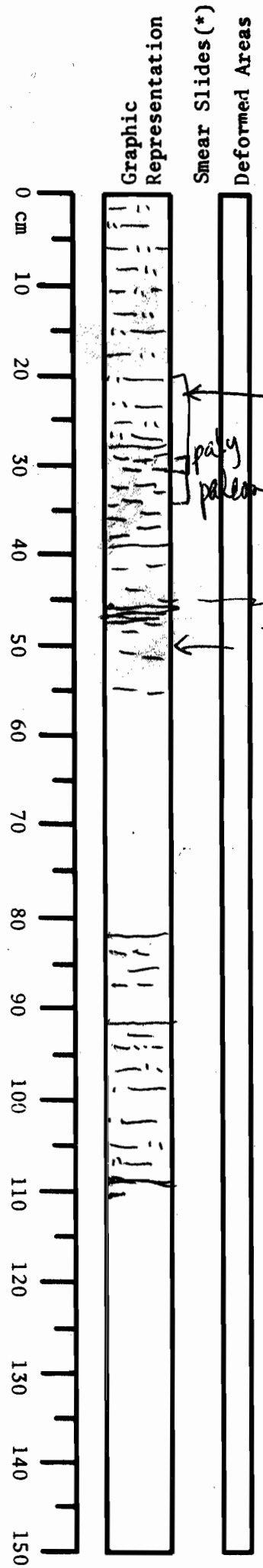
Dec 11, 1975

VISUAL CORE DESCRIPTION

1046-57

LEG	SITE	HOLE	CORE	SEC
	6001		90	-5

OBSERVER: JP-PV



clayey silt, distinctly laminated, discont crumbly to plastic dk olive gray (5Y 3/2) silty partings; flaser bedding

carbonaceous clay blk, slickensided, massive gradational contact above; sharp contact below, crumbly

Sl. silty clay, gray 5Y 5/1 to 5Y 4/1 dk gray crumbly, massive, micaceous

black sl. silty clay, hackly fractured, gradational contacts above and below

dk 5Y 5/1 gray clay silt, indistinct to distinct discont laminations crumbly, then clayey parting dark gray

12/11/75

330570

VISUAL CORE DESCRIPTION

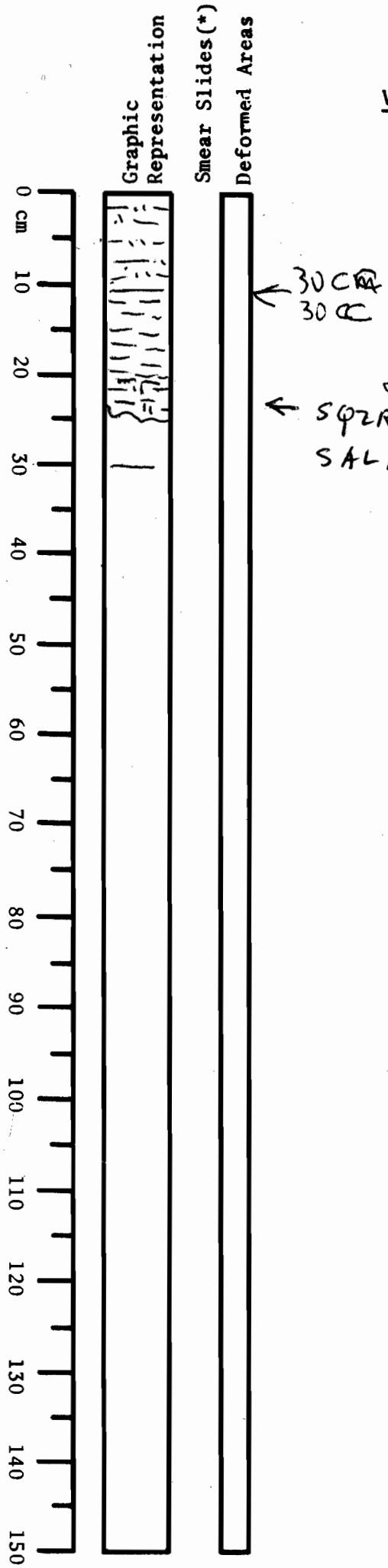
1046-1057'

LEG	SITE	HOLE	CORE	SEC
			90	6

OBSERVER: [illegible]

Graphic Representation | Smear Slides(*) | Deformed Areas

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



laminated clayey silt, gray (5Y 5/1)
Crumbly, thin clayey layers, darker gray, sharp contact below.

← 30 CC
30 CC

olive gray (5Y 4/2) clay faintly lam to massive to plastic; silty at base

← SQZR

SALINITY 11.3‰

330570

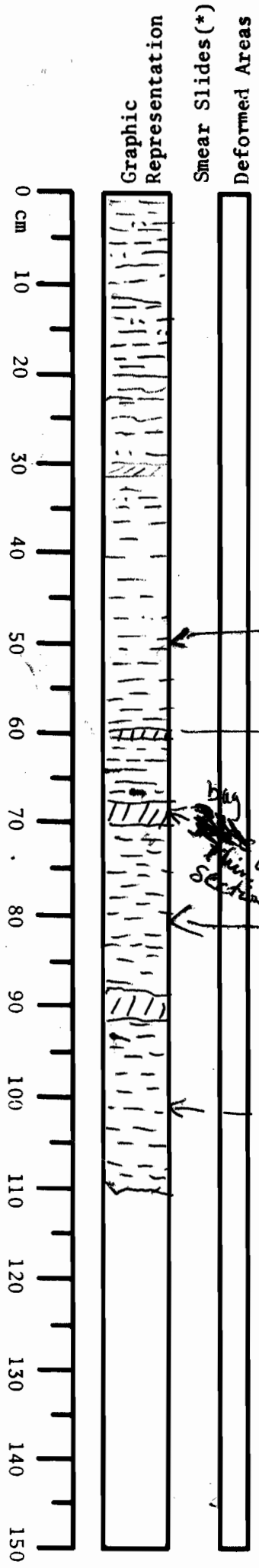
12-11-75

VISUAL CORE DESCRIPTION

~~1076~~ 1057 - 1076 ft

LEG	SITE	HOLE	CORE	SEC
5	0091		91	-1

OBSERVER
JS + PV



silty clay, distinctly laminated crumbly to plastic, carbonaceous partings; massive silty clay 11 cm to 19 cm; the remainder well laminated small x-beds (1 cm thick at 32 cm dK gray (5 Y 4/1)

30cc ✓
30cc

clayey sideritic zone, brown 10YR 5/3
laminated clay plastic,
massive sideritic (?) zone, hard concoidal fracture brown 10YR 5/3
massive sl. dK gray (10YR 4/1) clay massive, hackly fracture, light brown 10YR 6/3 clayey zone at 82 cm
massive pale brown sideritic (?) zone, hard, concoidal fracture
massive, fissile, sl. silty clay, faint laminat

30cc

330570

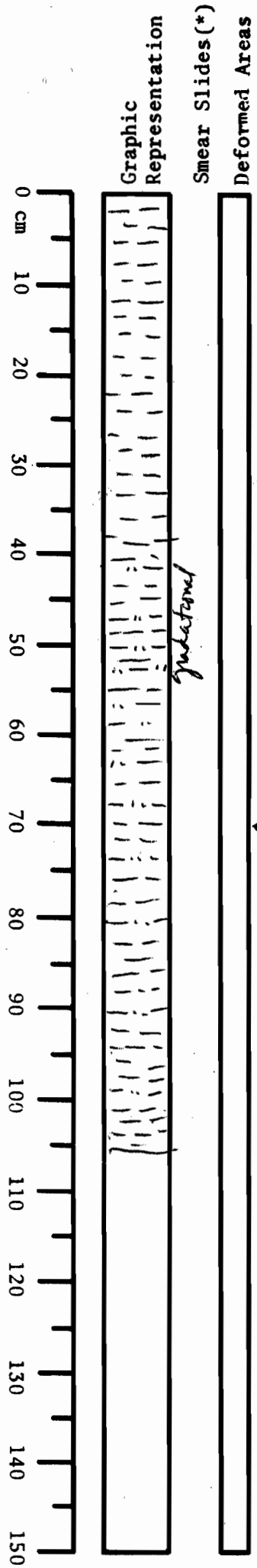
12/11/75

VISUAL CORE DESCRIPTION

1057-1076 ft

LEG	SITE	HOLE	CORE	SEC
6	001		91	-2

OBSERVER: M-PV



sl. silty claystone, crumbly to plastic very dk gray 5Y 3/1 massive except for a laminated zone from 2-7 cm; gradation change from interval 45-60 cm to a silty claystone, micaceous, thin wispy discontinuous silty intercalations, faint plastic, hackly fracture. lower part is very dk gray (10YR 3/1).

← 30cc
30cc

330570

Dec 11, 1975

VISUAL CORE DESCRIPTION

1057-76'

LEG	SITE	HOLE	CORE	SEC
6	001		91	-3

OBSERVER: [illegible]-PV

Graphic Representation | Smear Slides(*) | Deformed Areas

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

palyn paleon samples

silty clay at top grading to clay silt below top few cm

← 30cc ✓
30cc

discontin laminated, clayey, sand silt, dk gray 10YR 4/1, from top to 75 cm crumbly, abundant mica,

massive sl. silty clay very dk gray (10YR 3/1)

330570

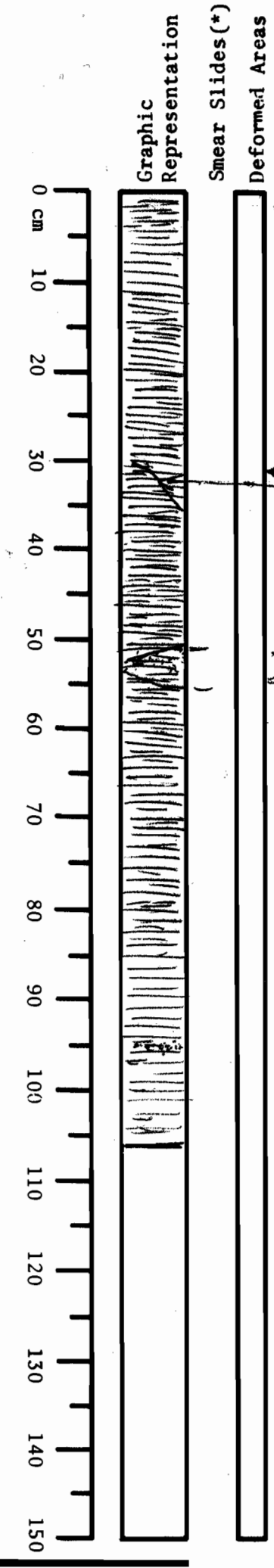
12/11/75

VISUAL CORE DESCRIPTION

1057-76'

LEG	SITE	HOLE	CORE	SEC
6	001		91	4

OBSERVER
JCH



CLAY, BLACK, 5YR 2.5/1 STIFF

VERY FAINT BEDDING, ALMOST MASSIVE

30 cc
15 cc
slickensides

BROWN ZONE 7.5YR 5/2

CRACKING ALONG BEDDING PLANES

SANDY LAYER

12/12/75

330570

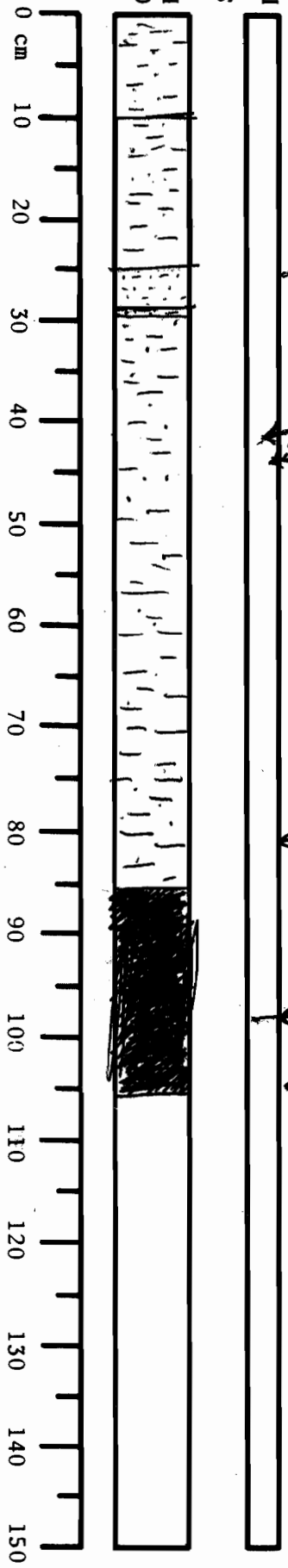
LEG	SITE	HOLE	CORE	SEC
			9	5

OBSERVER
JCH

VISUAL CORE DESCRIPTION

1059'-1076'

Graphic Representation | Smear Slides(*) | Deformed Areas



clay, silty, black 10yr 2/1

silt sized mica flakes (10-25 cm)

25-27 dk gray 10yr 4/1 silt

29 gray silt layer 10yr 4/1

29-85 faintly bedded silt, sand and clay, black 10yr 2/1 with thin >1mm gray 10yr 4/1, with silt laminae,

42-45 sample - 15 & 30cc. ✓

← Salinity SQZR 11.3‰

85-106cm, black 10yr 2/1 lignitic coal - impure - bedded with some very dark brown zones 5yr 3/2

← 97 CM (sample) 30 30cc; also ~~[illegible]~~, 2 bags Palyn, 1 bag paleo
2 jar hydrocarbon

← SQZR - Salinity 10.7‰

330570

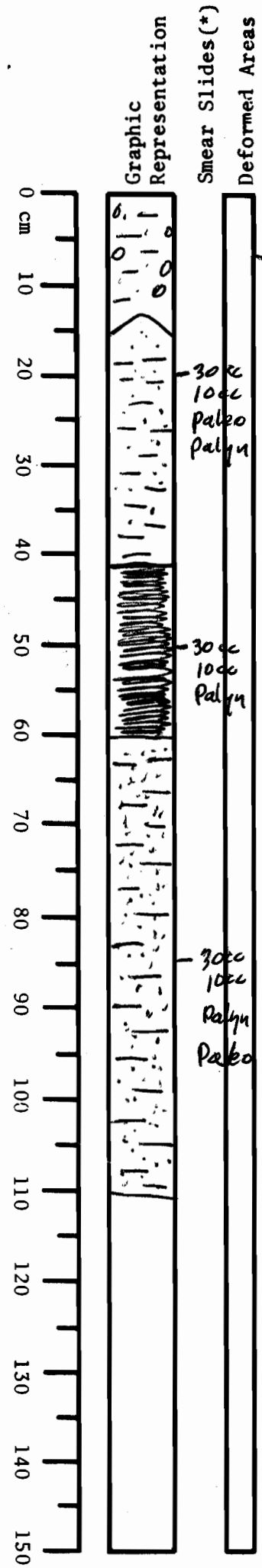
1/18/76

VISUAL CORE DESCRIPTION

1076-1094'

LEG	SITE	HOLE	CORE	SEC
6	001		92	1

OBSERVER: POAG



CAVINGS, LIGNITE, DARK GRAY CLAY

CAVINGS – Red clay and gray clay w/ numerous pebbles (cherty)

CLAY & SILT – dark greenish black, lignitic clay with green micaceous silt laminae, occasional pyrite nodule (2cm diam)
CLAY = Black 5Y-2.5/1
SILT = Black 5Y-2.5/1

COAL – Lignitic, with many plant fragments visible

BLACK 7.5YR-2/1

CLAY & SILT – dark greenish gray clay with fine laminations of light gray silt.
CLAY = dark olive gray – 5Y-3/2
SILT = light olive gray – 5Y-6/2

330570

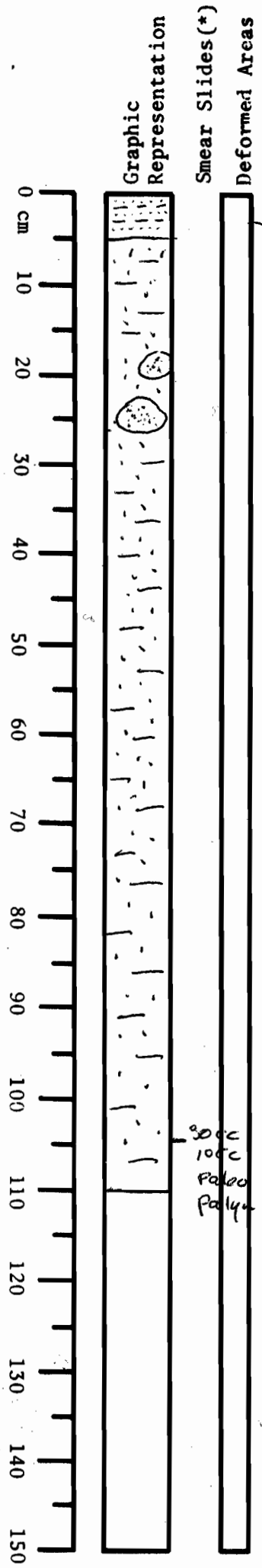
1/18/76

VISUAL CORE DESCRIPTION

1076-1094'

LEG	SITE	HOLE	CORE	SEC
6	001		92	2

OBSERVER: POAG



DARK GRAY CLAY, SANDSTONE

SILT & CLAY- laminated, slightly glauconitic

CLAY = very dark grayish brown 2.5Y-3/2
silt = dark grayish brown 2.5Y-4/2

CLAY & SILT- dark greenish brown, laminated, micaceous, glauconitic, numerous vertical filled tubes (burrows) filled with green glauconitic silt. Upper part with indurated cobbles of siltstone. Occasional pebble farther down.
light tan fragments in lower portion (calcitic?)

Colors as above except for dark green glauconitic layers.

1/18/76

330570

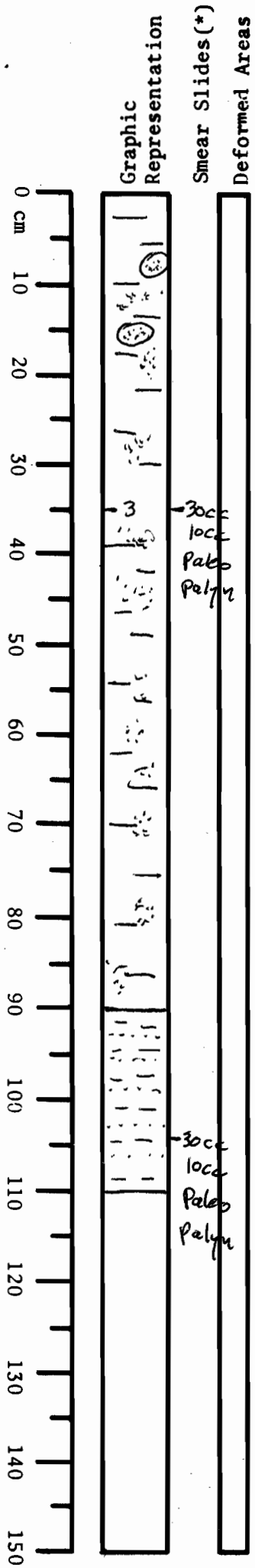
VISUAL CORE DESCRIPTION

1076-1094'

LEG	SITE	HOLE	CORE	SEC
6	001		92	3

DARK GRAY [redacted] SILTY CLAY, SANDSTONE

OBSERVER: POAG



CLAY – soft, very silty, with thick pockets and laminae of micaceous green silt. Also scattered cobbles of brown siltstone & a few oxidized blebs of silty clay.

Clay = dark olive gray (5Y – 3/2)

SILT = dark olive gray (5Y – 3/2)

SILT & CLAY – finely laminated dark & light layers, micaceous

Silt = dark gray (5Y – 4/1)

CLAY = dark olive gray (5Y/3/2)

330570

1/18/76

VISUAL CORE DESCRIPTION

LEG	SITE	HOLE	CORE	SEC
6	0001		92	4

OBSERVER

1076-1094

BLACK CLAY

0-55 DARK SILTY CLAY, MICACEOUS 10YR 3/1

15-110 MOTTLED W/ FINE YELLOW SILT ALTERNATES W/ GREENISH SILT (GLAUCONITE ?)

0-110 LAMINATED W/ SILTY - CLAYEY MATERIAL - THROUGHOUT

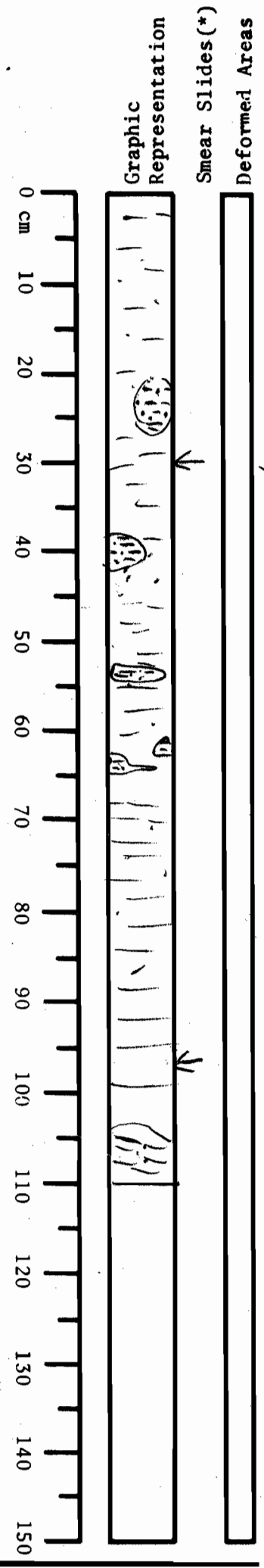
TEXTURE SAMPLE AT 30 CM

SANDY-SILTY ZONE - 30 MM THICK, ~~[illegible]~~ MICACEOUS CLAY - YELLOWISH 10YR 6/6

55-110 BECOMES MORE CLAYEY - INCREASINGLY DARKER - STILL QUITE MICACEOUS

TEXTURE SAMPLE AT 97 CM + PALYNOLOGY SAMPLE

LAMINATIONS - DIPPING



1/18/76

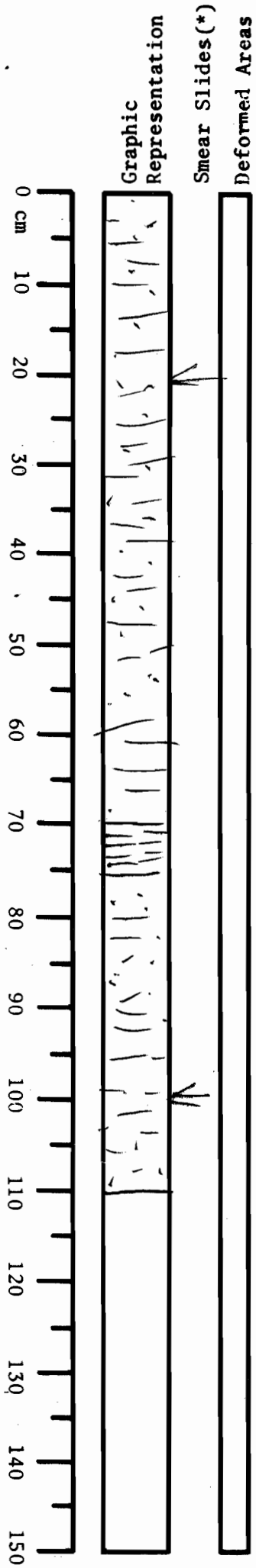
330570

VISUAL CORE DESCRIPTION

1076-1094'

LEG	SITE	HOLE	CORE	SEC
6	0 0 1		9 2	5

OBSERVER: RA



LT. GRAY SILTY CLAY, GRAY SAND

0-6 SL. MORE COARSE FSAND - SANDY SILT. POSSIBLE GLAUCONITE?

@ 6CM LIGNITIC BANDING

0-35 LT. GREY SILTY CLAY

35- SLIGHT INCREASE IN MICA

TEXTURE SAMPLE AT 20CM

60-75 INCREASE IN CLAY CONTENT

MORE CLAYEY LAYER

[redacted]

75-110 COARSER - MORE MICA

POROUS, POSSIBLE GLAUCONITE

CLAY STRINGERS

✓ TEXTURE SAMPLE AT 100CM

1-19-76

330570

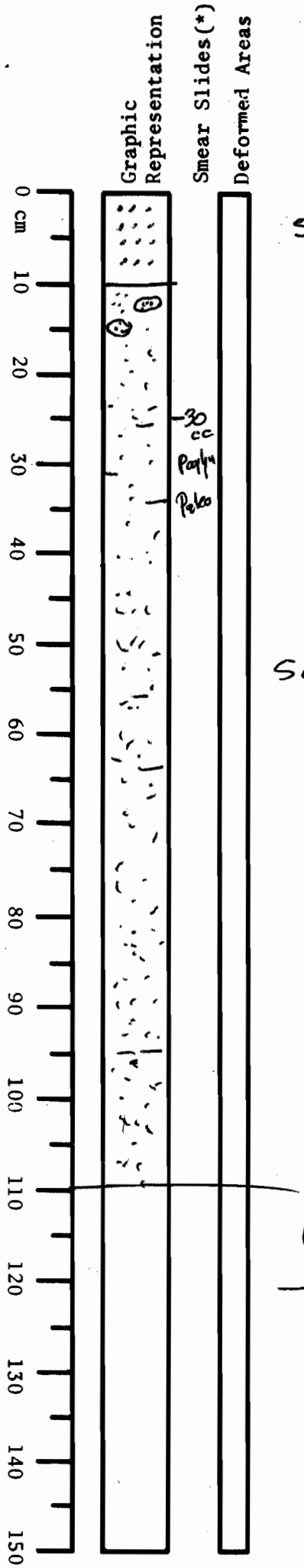
LEG	SITE	HOLE	CORE	SEC
60	01		93	1

VISUAL CORE DESCRIPTION

1094 – 1099.5

OBSERVER
BOTTINER

POAG



SANDSTONE – Indurated dark gray, silty w/ liguitic streaks; dark olive gray 5Y-3/2

Sand & clay – micaceous, soft, w/ indurated hard sandy siltstone lenses at irregular intervals

5Y-3/2

FIELD OBSERVATIONS

→ ① GASTROPODS + PELECYPODS (?) 105–110 cm. !!!
IN INDURATED SILTSTONE (LIMESTONE?).

② SILTSTONE, INDURATED 0–15 cm.

③ SOFT CLAYEY SILT, GREY, IN BETWEEN ① and ②