330570

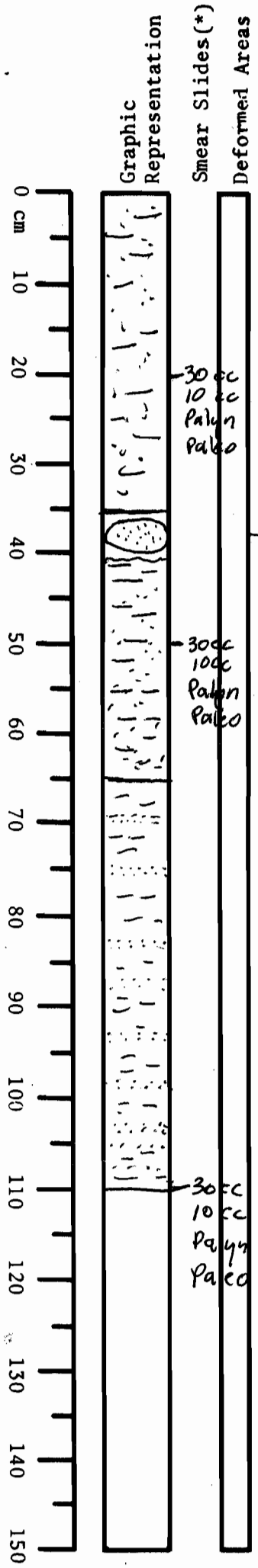
1/19/76

VISUAL CORE DESCRIPTION

1099.5-1119.5'

LEG	SITE	HOLE	CORE	SEC
6	001		94	1

OBSERVER: POAG



DARK GRAY SILTY CLAY

CLAY – dark gray to black w/ light gray silt laminations and layers; large pebbles of siltstone in upper 15 cm.
CLAY = very dark gray – 10YR – 3/1
SILT = gray – 10YR – 5/1

SILTSTONE COBBLE

CLAY – dark gray to black as above, silt lamaminae becoming more frequent & more closely spaced
CLAY = very dark gray – 10YR – 3/1
silt = gray 10YR – 5/1

CLAY and SILT – Thinly laminated alternating clay and silt; silt laminae thicker than above; appear to be borings or root cavities in clay, filled with silt.
CLAY = BLACK – 10YR – 2/1
SILT = gray 10YR – 5/1

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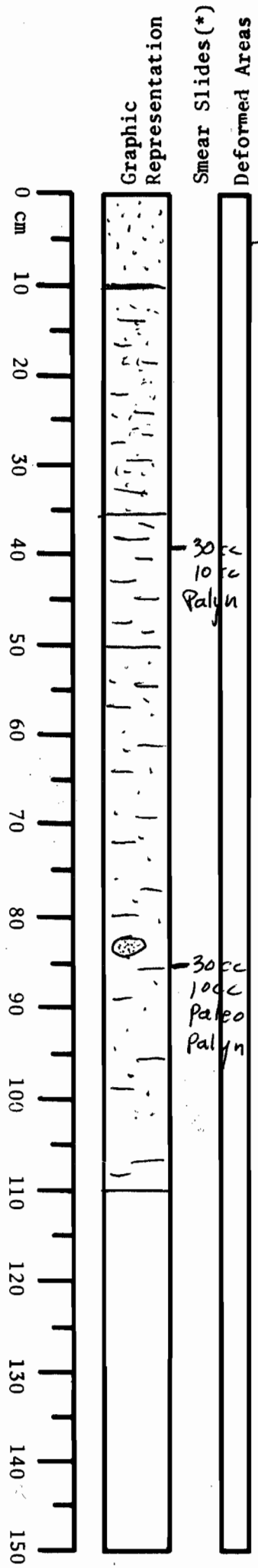
1/19/76

VISUAL CORE DESCRIPTION

1099.5 - 1119.5'

LEG	SITE	HOLE	CORE	SEC
6	001		94	2

OBSERVER
POAG



BLACK CLAY (LIGNITE ~40cm and ~90cm.) TO DARK GRAY CLAY

SILTSTONE - very hard (had to saw it) micaceous

CLAY and SILT - laminated, soft,
CLAY - Black 10YR - 2/1
SILT - Gray 10YR - 5/1

CLAY - dark, hard, lignitic - has lignitized woody stems of 1/4 inch diam.
black - 10YR - 2/1

CLAY & SILT - lighter color than clay above; vertical "burrows", lignitic, laminated, ~~[illegible]~~, occasional lignitized stem and indurated siltstone nodule

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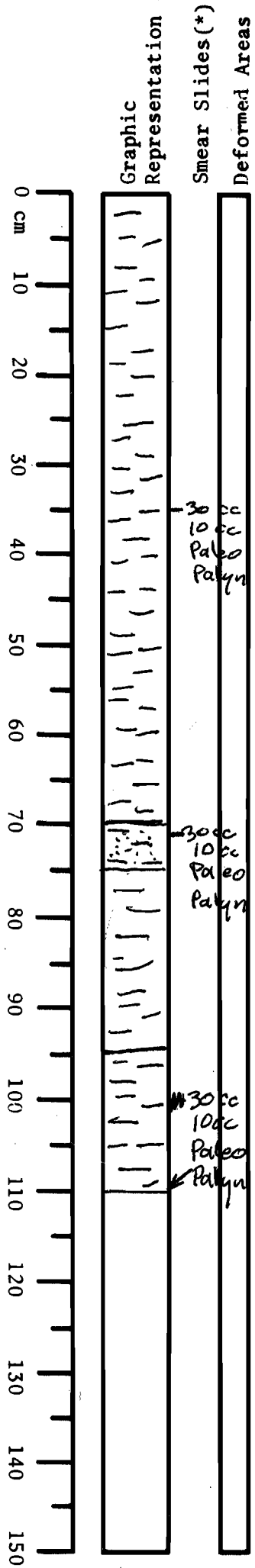
VISUAL CORE DESCRIPTION

1099.5 - 1119.51

LEG	SITE	HOLE	CORE	SEC
6	001		94	3

BLACK CLAY

OBSERVER
POAG



CLAY - Dark, hard, w/ reddish black laminations and blebs at irregular intervals (organics?)
10YR-3/1 very dark gray

CLAY & SILT - laminated, softer, with dark organic laminae = black 10YR-2/1

CLAY - as at top
very dark gray - 10YR-3/1

CLAY - darker, with distinct black and reddish black (organic?) laminae
also has white specks and streaks (calcite?) and stems (carbonized)
CLAY = 10YR-3/1 very dark gray
Red streaks = 2.5YR-3/4 dark reddish brown

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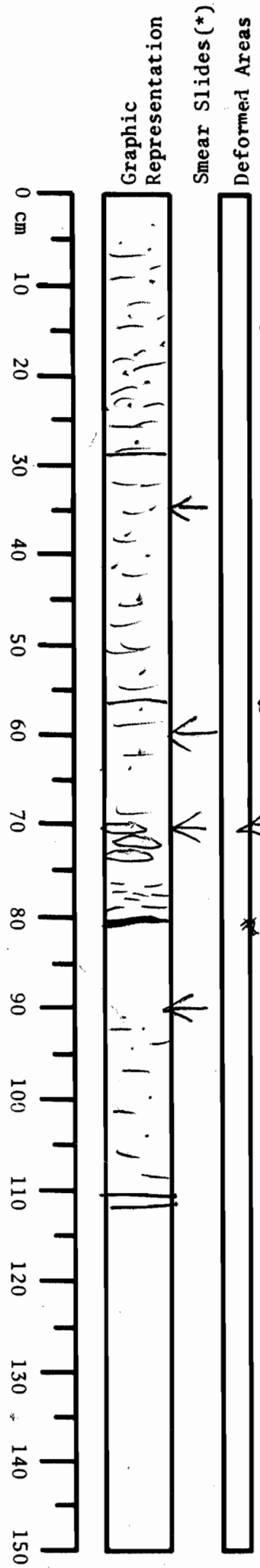
VISUAL CORE DESCRIPTION

1099.5-1119.51

LEG	SITE	HOLE	CORE	SEC
6	001		94	4

OBSERVER



DARK GRAY TO BLACK CLAY
W. LIGNITE ~ 80CM - then
LT. GRAY CLAY

0-30 DARK ~~GRAY~~ - ~~[redacted]~~ SILTY CLAY - PARTIALLY INDURATED, VERY FINE ORANGE MOTTLING.

0-57 5Y-4/2; SLIGHTLY MICACEOUS 25CM - 57

30-57 CONTACT - TEXTURE CHANGE - DARK BLACK CLAY ~~w/~~

- TEXTURE SAMPLE AT 35 CM

PALYNOLOGY SAMPLE AT 60 CM

57-80 LIGNITIC ZONE - ALTERNATING ~~[redacted]~~ BANDS OF DARK REDDISH MATERIAL W/ LIGNITIC MATERIAL (DARK)

67-75 INDURATED; VERY HARD, RED, DIFFICULT TO SAMPLE 2.5YR-5/6

ORGANIC CARBON SAMPLE - VERY WOODY
70 CM

80- VERY DARK BLACK CLAY - SEEMS TO TERMINATE LIGNITE ZONE

82-110 LIGHT GREY WHITISH, VERY FINE SILTY CLAY MATERIAL; V. SLIGHTLY MICACEOUS

~~[redacted]~~, FRIABLE
10YR-6/1

TEXTURE SAMPLE AT 90 CM

330570

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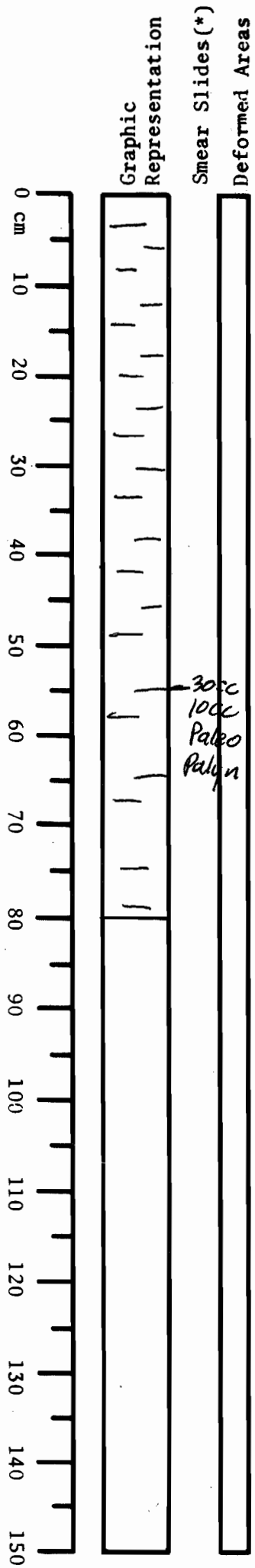
VISUAL CORE DESCRIPTION

LEG	SITE	HOLE	CORE	SEC
6	001		94	5

OBSERVER: POAG

1099.5 – 1119.5'

LT. GRAY CLAY



CLAY- gray, w/ lignitic, abundant vertical tubular structures (roots?) w/ dark fillings (lignitic?)

Also some large tubular (1" diam) "burrows" of darker clay

Light brownish gray 2.5Y-6/2

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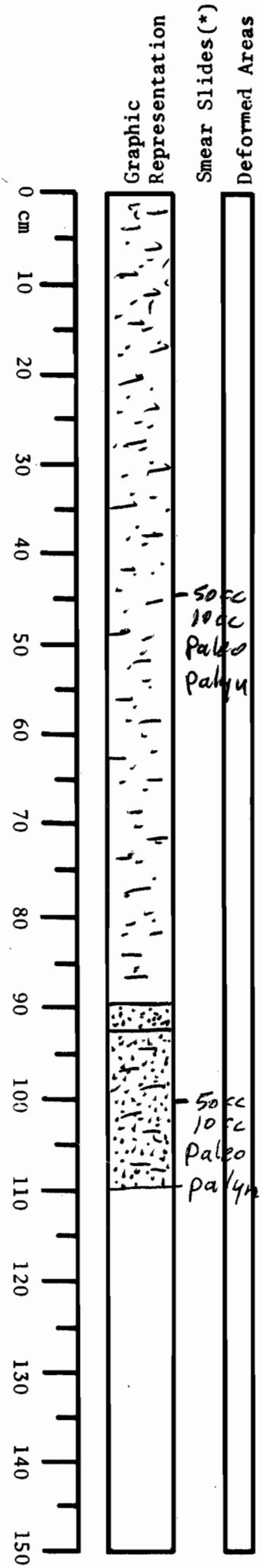
VISUAL CORE DESCRIPTION

1119.5-1129.5'

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

OBSERVER: POAG

LT. GRAY CLAY



CLAY - light gray, silty slightly lignitic not laminated

light olive gray - 5Y-6/2

SAND - CLAYEY, INDURATED

color as above

CLAY & SAND - much sandier than upper section; otherwise quite similar.

color as above

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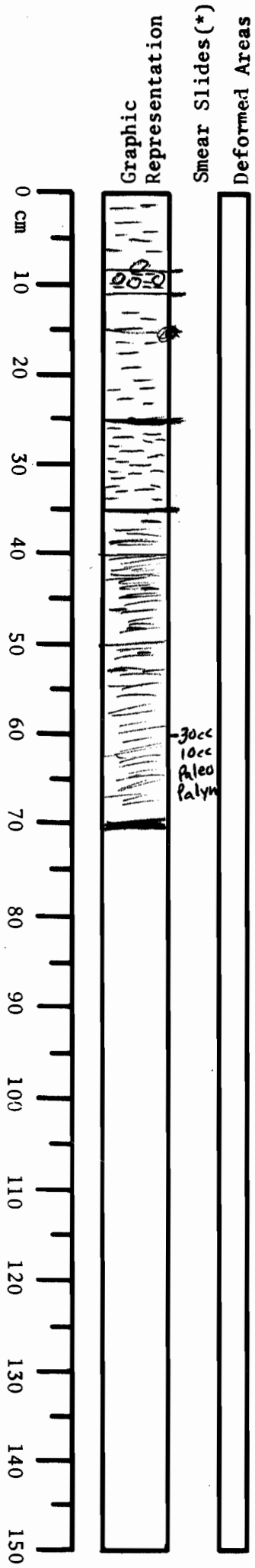
LEG	SITE	HOLE	CORE	SEC
6	001		95	2

OBSERVER: LOCKER

VISUAL CORE DESCRIPTION

1119.5 - 1129.5



- Clay LT GRAY CLAY W. INDURATED LAYER NEAR BOTTOM - light gray, 10YR-5/1
- Clay w/ Pebbles, 10YR-5/1
- Clay - light gray, 2.5Y-4/2
- Clay - Dark Gray, 2.5Y-3/2
- Clay, laminated light = 5Y-6/1 dark = 2.5Y-3/2

330570

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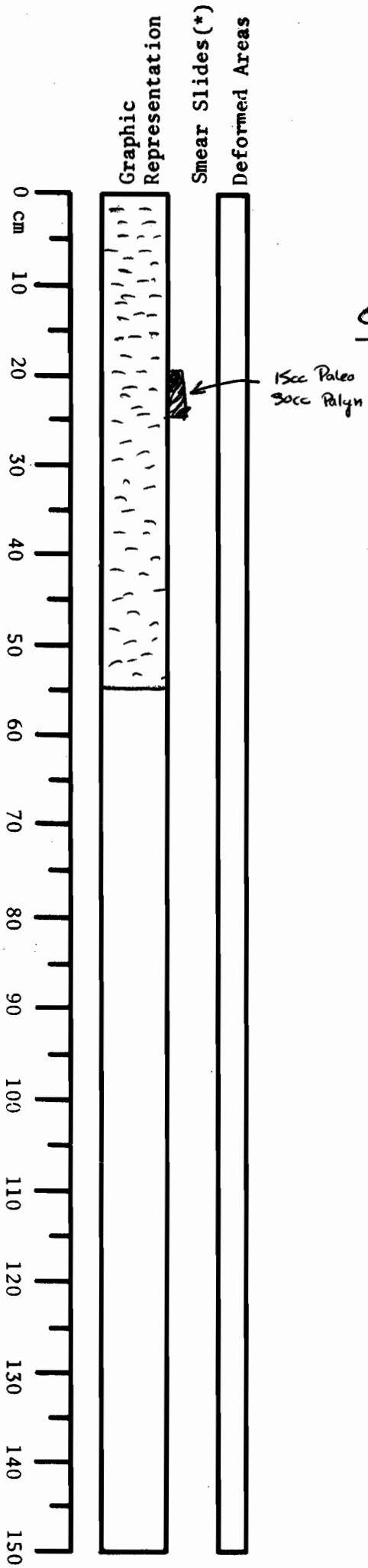
VISUAL CORE DESCRIPTION

~~LEG~~	SITE	HOLE	CORE	SEC
6	001		96	1

OBSERVER
KNEBEL

1129.5 - 1148.5 ft
344.3 - 350.1 m

Gray clay



0-55 Homogeneous dark gray ~~(7.5YR/N4)~~ (7.5YR/N4) clay. Well indurated and no discernible structure. Small ~~bands~~ flecks of black fibrous material at 15cm, and 35cm. Band resembling coal at 10cm

Core section split by saw.

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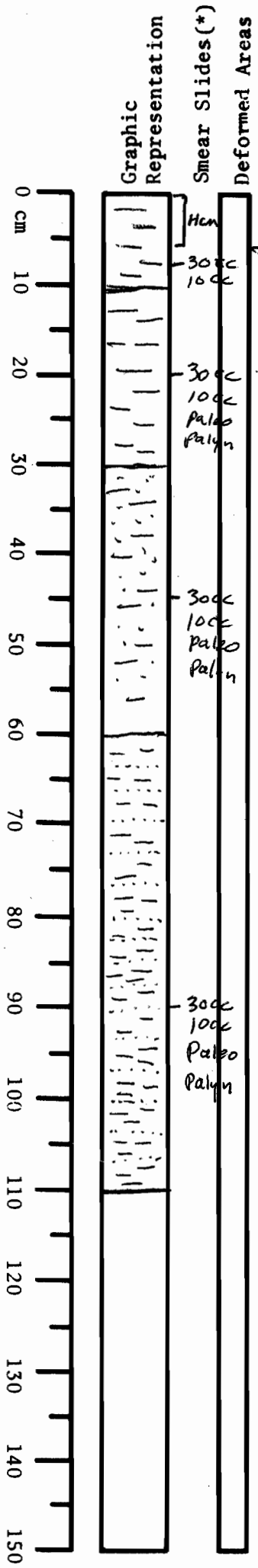
~~LEG~~	SITE	HOLE	CORE	SEC
6	001		96	2

OBSERVER
KNEBEL

VISUAL CORE DESCRIPTION

1129.5 - 1148.5 ft
344.3 - 350.1 m.



dark gray - black clay

CLAY - dark, w/ abundant lignitic specks
2.5Y - 3/2 very dark grayish brown

CLAY - Black w/ conchoidal fracture; slightly lignitic 2.5Y - 2/1 = black

CLAY - silty, hard, w/ inclusions of lighter silty chips (some burrows?); lignitic. Very dark greyish brown 2.5Y - 3/2
~~Black~~ ~~dark grayish brown 2.5Y - 4/2~~

CLAY & SILT - Laminated and (burrowed?) w/ darker sediment filling the "burrows". slightly lignitic.
dark grayish brown 2.5Y - 4/2

Lower - mid Cenomanian R. Christopher ?

1/19/76

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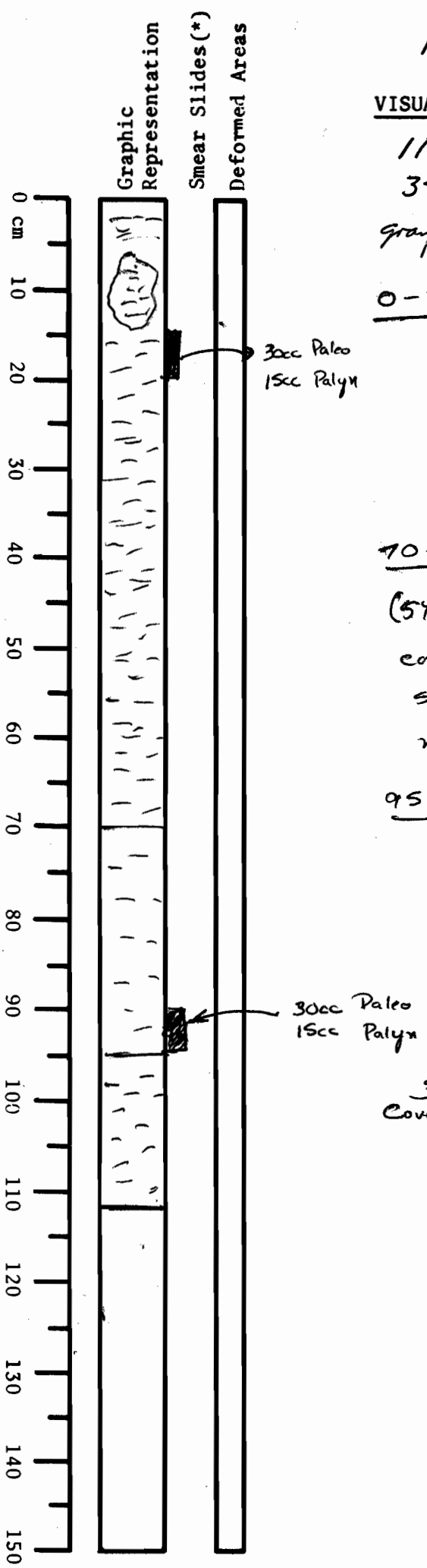
[redacted]	SITE	HOLE	CORE	SEC
6	0 0 1		9 6	3

OBSERVER
KNEBEL

VISUAL CORE DESCRIPTION

1129.5 - 1148.5 ft
344.3 - 350.1 m.

gray silty clay



0-70 cm, light gray (5YR 7/1), silty clay with no discernible structure. large clay/silt clast from 5-15 cm; clast is rounded. No effervescence when drop of dilute HCl applied

70-95 cm, mottled light gray (5YR 7/1) and (5YR 4/4) reddish brown ~~clo~~ silty clay. Clay content greater here than in upper part of section. No discernible structure other than mottling

95-110 cm light gray (5YR 7/1) silty clay similar to uppermost section. One small lens (1 cm) of darker grey clay at 100 cm. No other structure apparent

Core section split by cleaver and hammer.

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LEG	SITE	HOLE	CORE	SEC
6	0 0 1		9 6	4

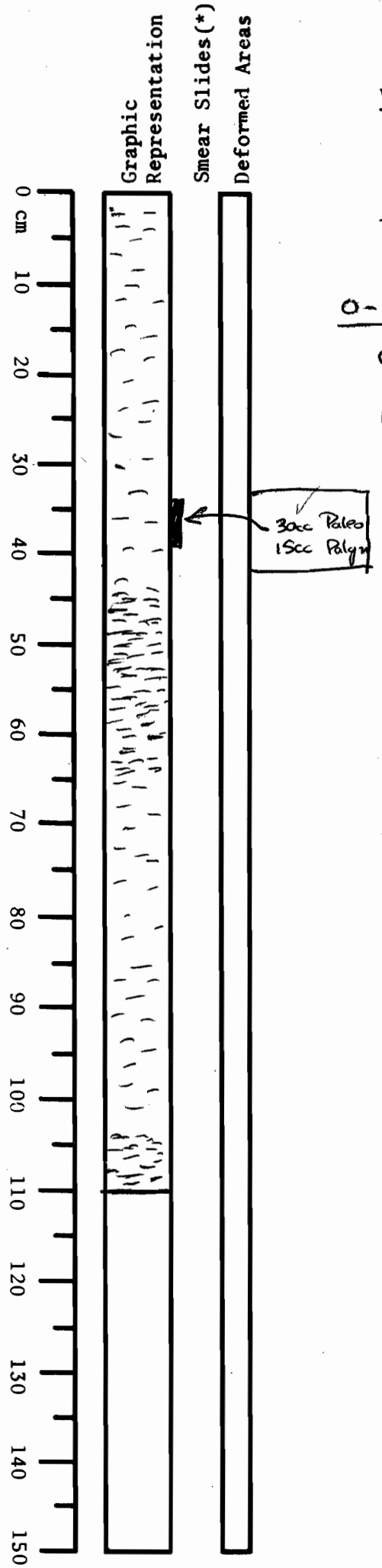
OBSERVER
KNEBEL

VISUAL CORE DESCRIPTION

1129.5 - 1148.5 ft

344.3 - 350.1 m.

lt. gray silty clay



0-110cm Light gray (7.5 YR/N7) silty clay. Massive appearance - no stringers

15-30cm - horizon of gray-brown mottling

Mottling in ~~and~~ oval pattern - ovals ≈ 1-5cm in diameter. Black flecks and patches in the core from 50-85cm.

This section appears to have more silt from 45-65 cm. Also siltier toward the base.

Core section split by saw.

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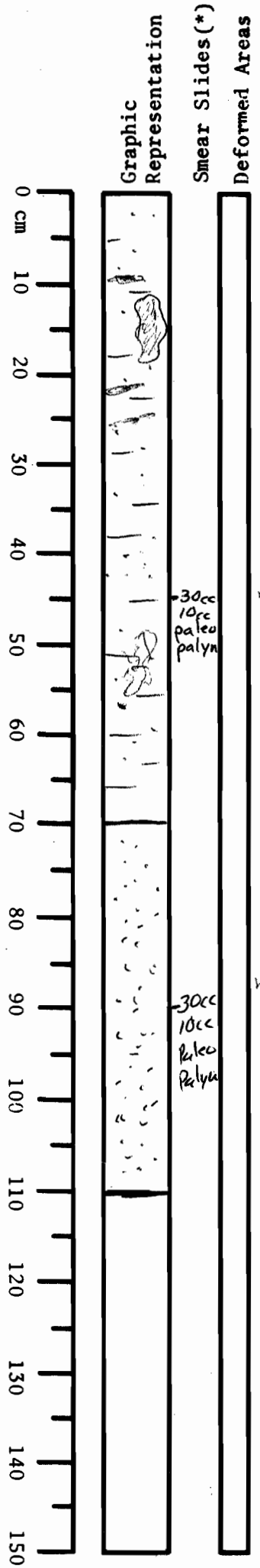
VISUAL CORE DESCRIPTION

1129.5 - 1148.5 ft
344.3 - 350.1 m

lt. gray silty clay + lt gray sand

[redacted]	SITE	HOLE	CORE	SEC
	6001		96	5

OBSERVER
LockGR



- Clay - silty, dark gray lenses.
gray - light gray color ; 10YR - 6/1

UK/LK contact ?

- Sand - sandy clay. 5Y - 7/1

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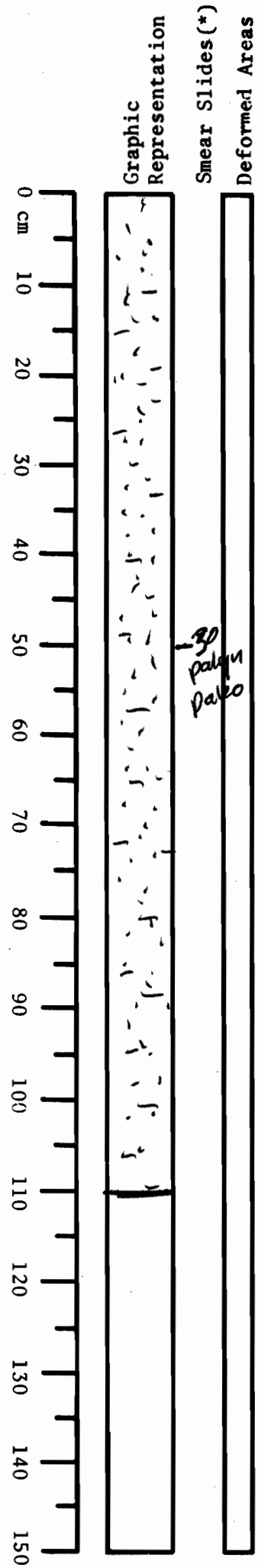
1/19/76

VISUAL CORE DESCRIPTION

1129.5 - 1148.5 ft
344.3 - 350.1 m.
lt gray sand, clayey

LEG	SITE	HOLE	CORE	SEC
6	001		96	6

OBSERVER: POAG



SAND - soft, light gray, finely stratified, micaceous, clayey

light brownish gray
10YR - 6/2

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1148.5 – 1167'

VISUAL CORE DESCRIPTION

1/20/76

LEG	SITE	HOLE	CORE	SEC
6	001		97	1

OBSERVER

Graphic Representation | Smear Slides(*) | Deformed Areas

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

POROSITY PLERM. SAMPLE

LT. GRAY SAND, CLAYEY – RECOVERY PROBABLY REPRESENTS 1148.5-1151' (ASSUMED THAT CORE BARREL SAND LOCKED) AND REST OF RUN WAS LOST BY WASHING

10YR/7/1

30cc 10cc Polyp

Deformed clayey sand, non-laminated, micaceous

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1/20/76

VISUAL CORE DESCRIPTION

1167-1187'

LEG	SITE	HOLE	CORE	SEC
6	0 0 1		9 8	0

OBSERVER

NO RECOVERY

Graphic Representation	Smear Slides(*)	Deformed Areas

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

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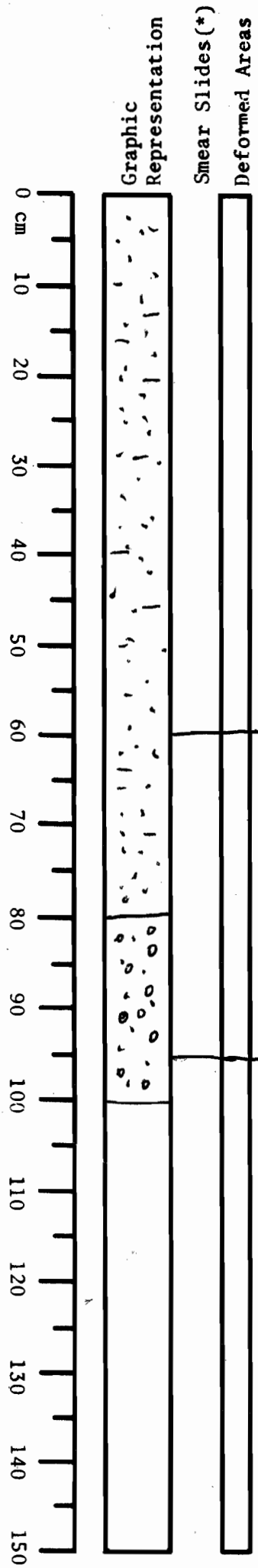
1/20/76

VISUAL CORE DESCRIPTION

1187-1207'

LEG	SITE	HOLE	CORE	SEC
6	001		99	1

OBSERVER: PoAG



LT. GRAY v SAND w. CLAY MATRIX - soft
coarse

5Y-8/1 white

occasional pebbles of 1cm length

30cc
10cc
palyn

SAND - v. coarse, white, clayey, stratified
soft

5Y-8/1

Numerons pebbles of 1cm length

30cc
10cc
Palyn

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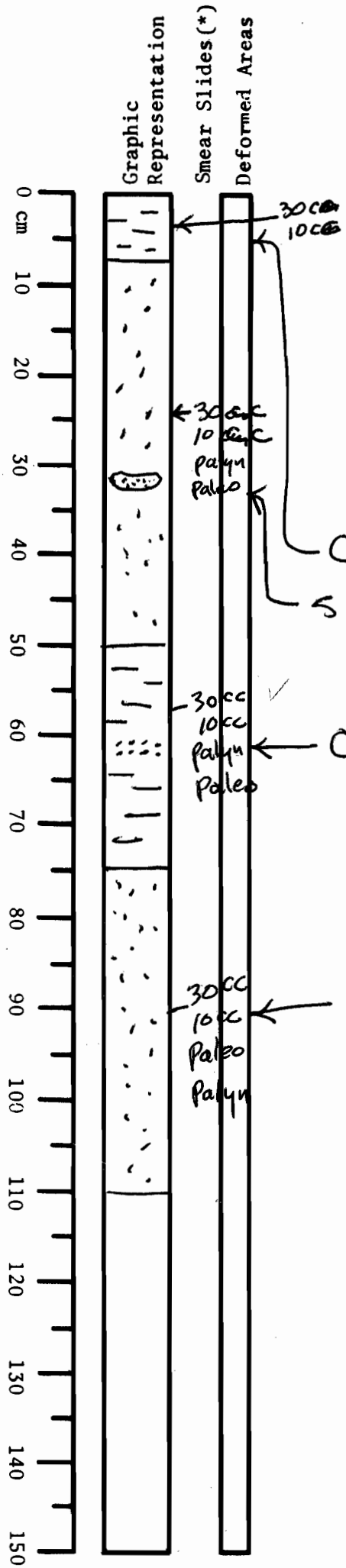
1/20/76

VISUAL CORE DESCRIPTION

1207-1227'

LEG	SITE	HOLE	CORE	SECTION
6	601		100	1

OBSERVER



WHITE COARSE SAND w. CLAY MATRIX
DRILLERS ASSUME THAT CORE BARREL SAND LOCKED AFTER FIRST 4 feet OF CORING ENDING RECOVERY FOR REST OF RUN ∴ THIS SECTION PRESUMABLY REPRESENTS 1207-1211' depth, (AND 1211-1227' WAS LOST IN WASHING)

CLAY - yellow, sticky, w/ large pebbles (light, yellowish brown 2.5Y-6/4)

SAND - loose, coarse, white, w/ occasional indurated ss lens (white - 5Y-8/1)

CLAY, semi-indurated, gray, with few coarse sand lenses. (light gray 5Y-7/1) - some layers are ([redacted] gray 10YR-6/1)

SAND - as in top section (8-50 cm) Lower 20 cc w/ very large mica flakes no indurated lenses

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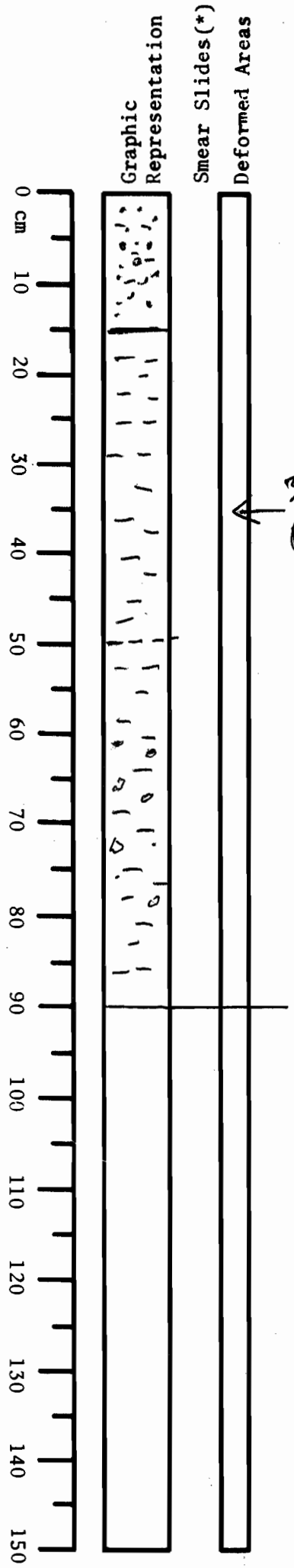
VISUAL CORE DESCRIPTION

1227-1247'

LEG	SITE	HOLE	CORE	SEC
6	001		101	1

OBSERVER



LT. GRAY SAND w. WHITE CLAY MATRIX
MOTTLED BRICK RED CLAY BEGINS
AT 55 cm.

SAND, LT GRAY (10YR/8/1), coarse, silty, unconsolidated; sharp contact at ~15 cm with

30cc
10cc
Polyn paleo

CLAY, LT GRAY (10YR/8/1), semi-indurated, very blocky, almost homogeneous, some blebs of gray clay; grades at ~50 cm into

CLAY, Red (10R/4/6) mottled with reddish clay blebs and white lt gray clay blebs similar to above lt gray clay

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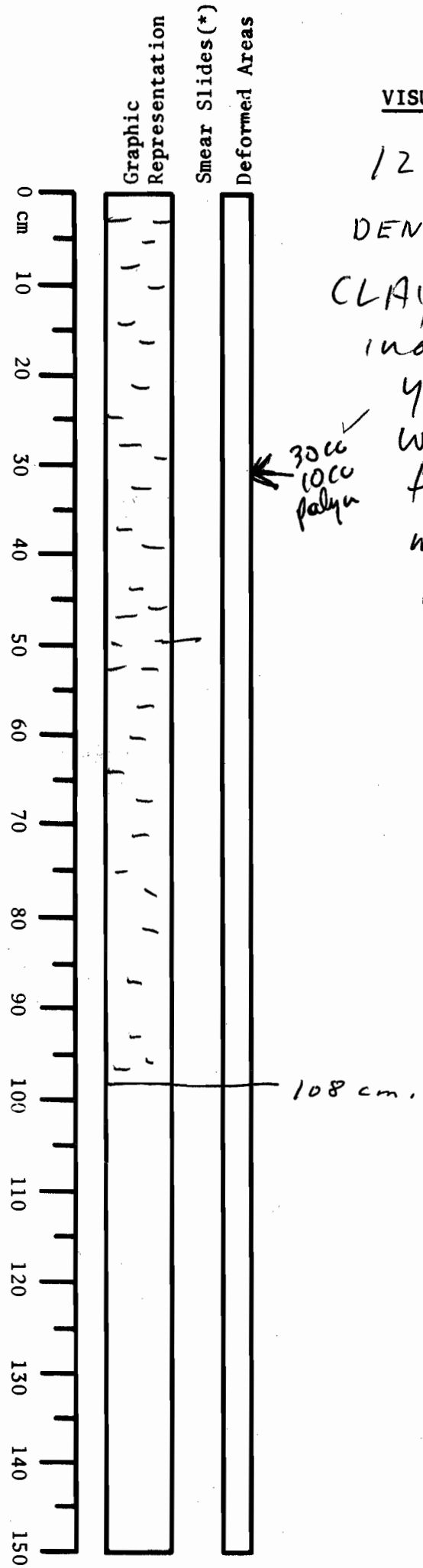
VISUAL CORE DESCRIPTION

LEG	SITE	HOLE	CORE	SEC
6	0001		101	2

OBSERVER

1227-1247'



DENSE BRICK RED MOTTLED CLAY

CLAY, RED (10R/4/6) semi-indurated, mottled, white + yellow mottles, white, lt gray mottles (5YR/7/1) to ~50 cm, then yellow mottles (5Y/6/6) with some white mottling to 108 cm.

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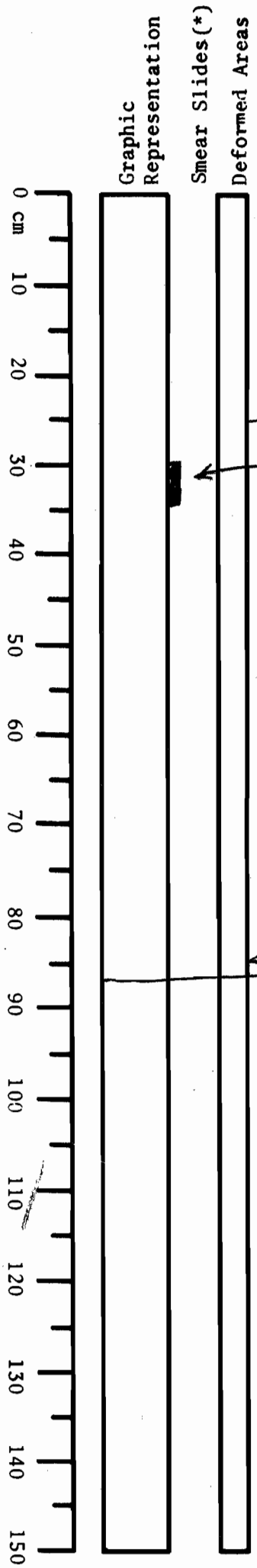
VISUAL CORE DESCRIPTION

1227 – 1247'

LEG	SITE	HOLE	CORE	SEC
6	901		101	3

OBSERVER
KNEBEL



DENSE BRICK RED MOTTLED CLAY

~~this~~ section 10R 3/6 dark red, indurated, clay with 5YR 8/2 pinkish-white mottles

Mottling more prevalent at top of section (0-20cm); examination (with hand lens) of pinkish-white mottles/streaks in upper part reveals small crystals with cleavage faces (probably calcite); other mottles appears to be due to a different mineralogy

— No distinct laminations noted throughout the core. Core section massive from 20-87 cm

— Core section split with ~~[illegible]~~ cleaver and hammer

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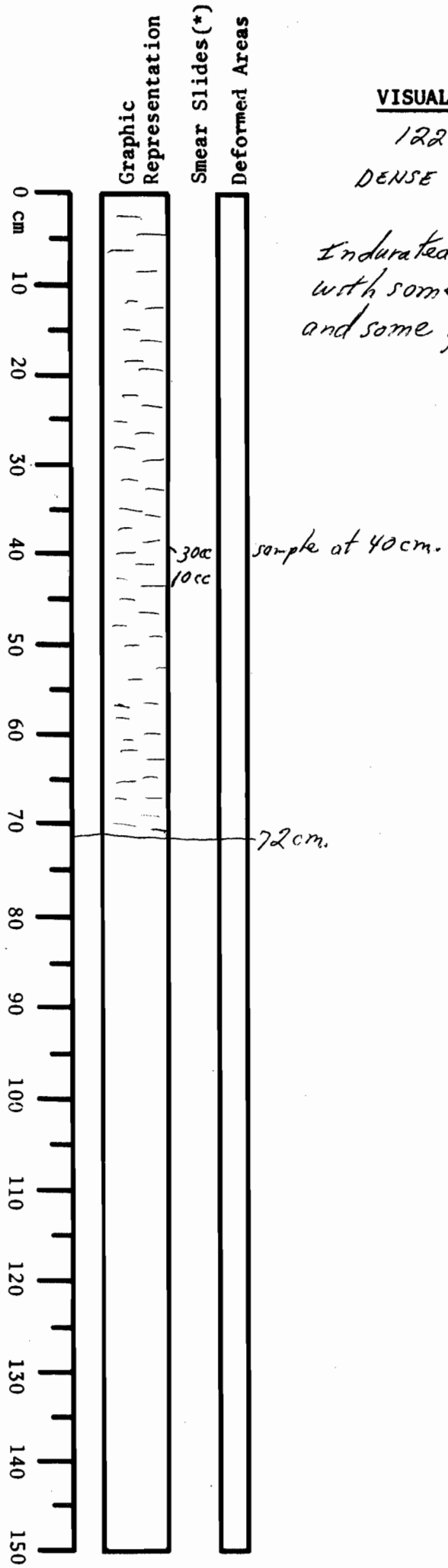
VISUAL CORE DESCRIPTION

1227-1247'

DENSE BRICK RED MOTTLED CLAY

LEG	SITE	HOLE	CORE	SEC
6	001		101	4

OBSERVER
Hall

Indurated red (10R4/6) mottled clay with some darker red (10R3/4) mottling and some yellowish (10YR6/6) mottling.