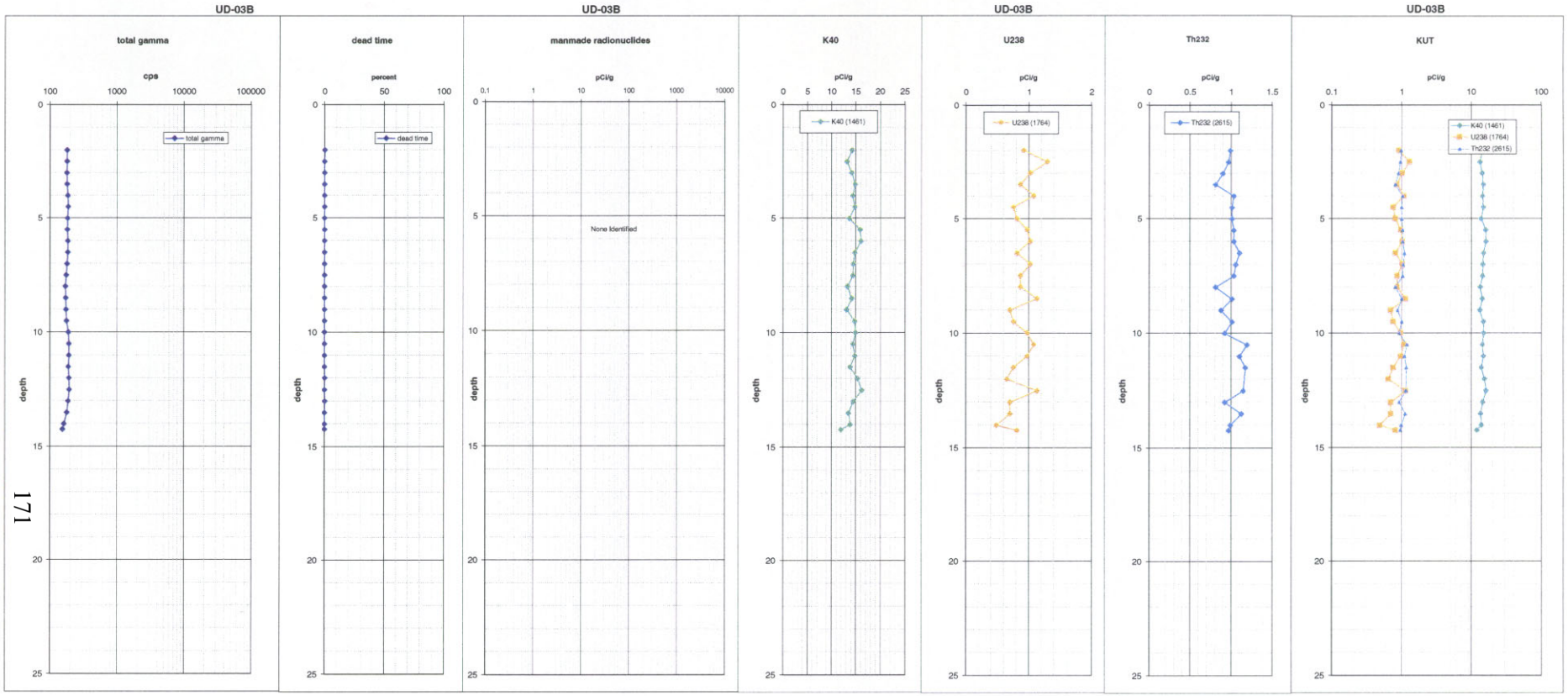
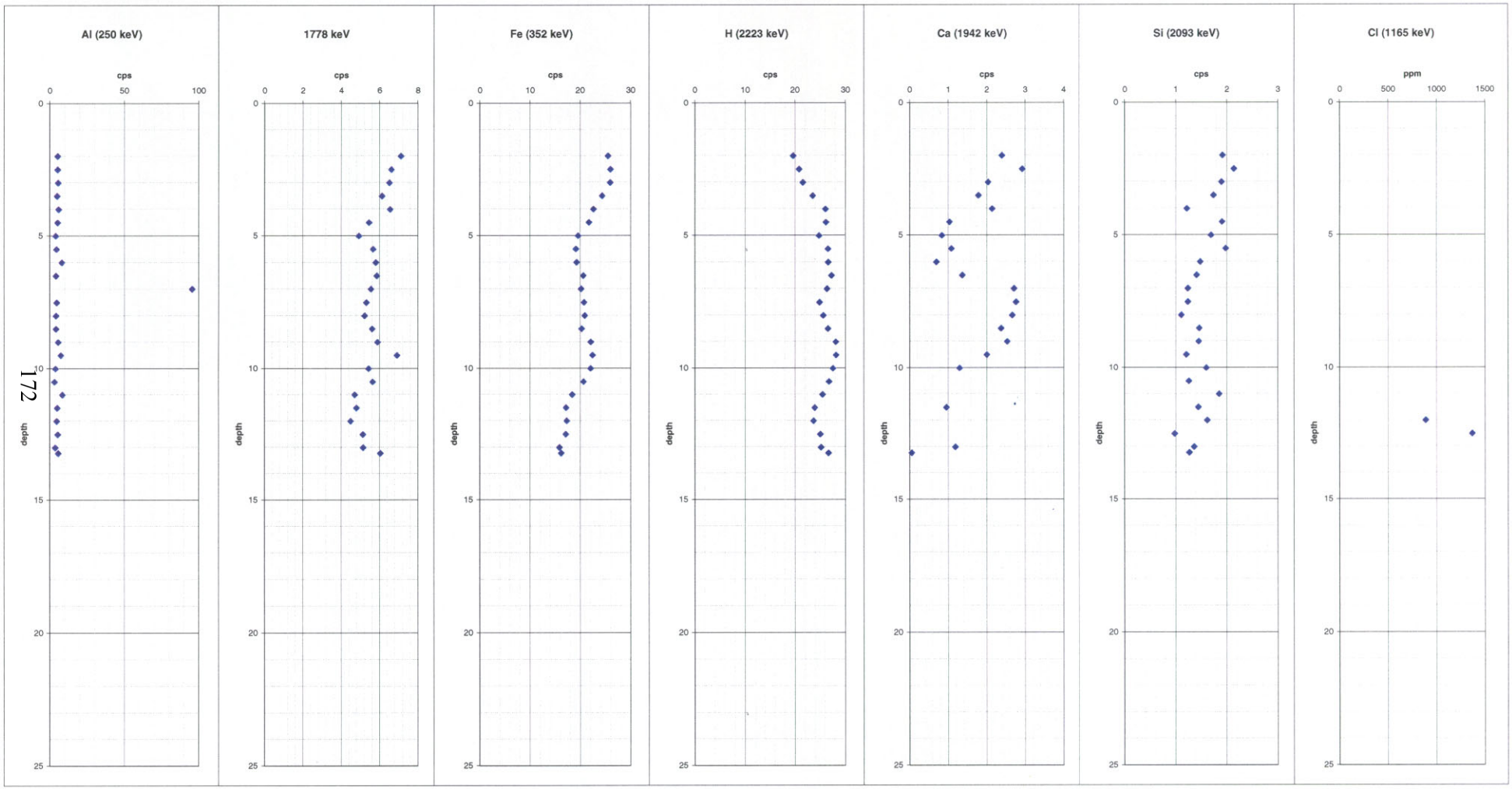
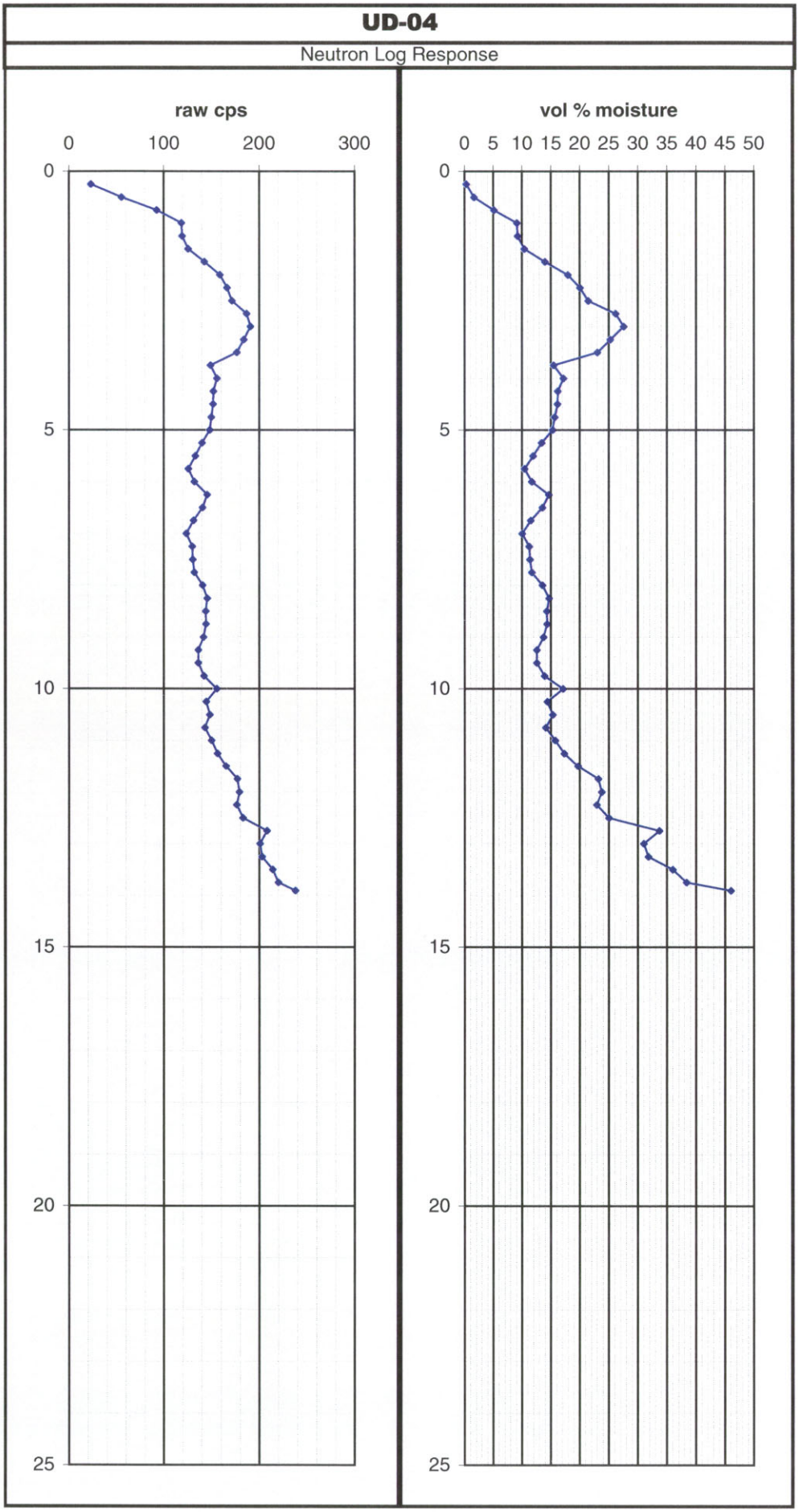
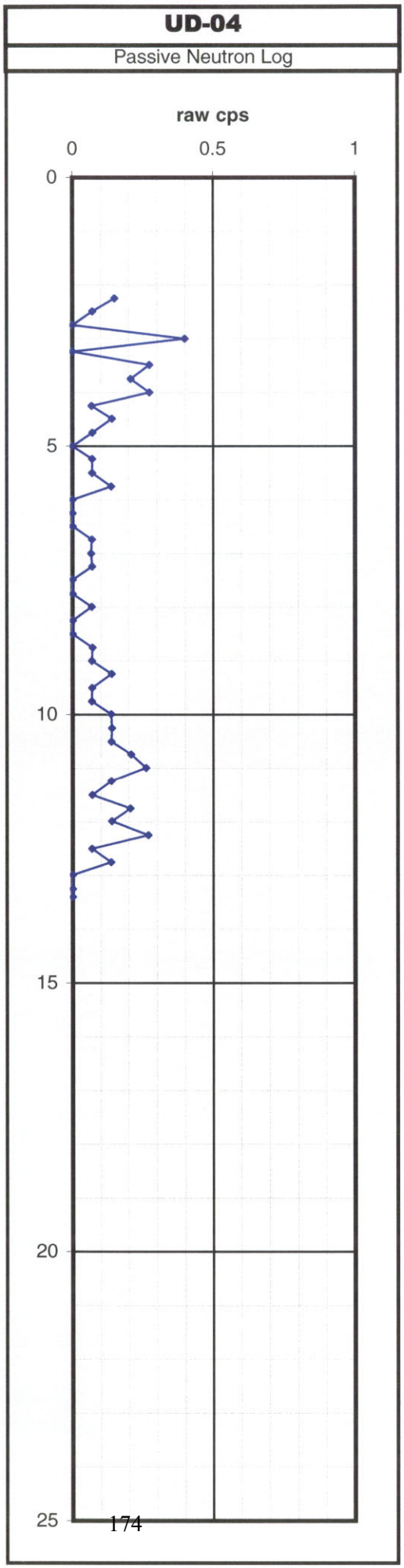
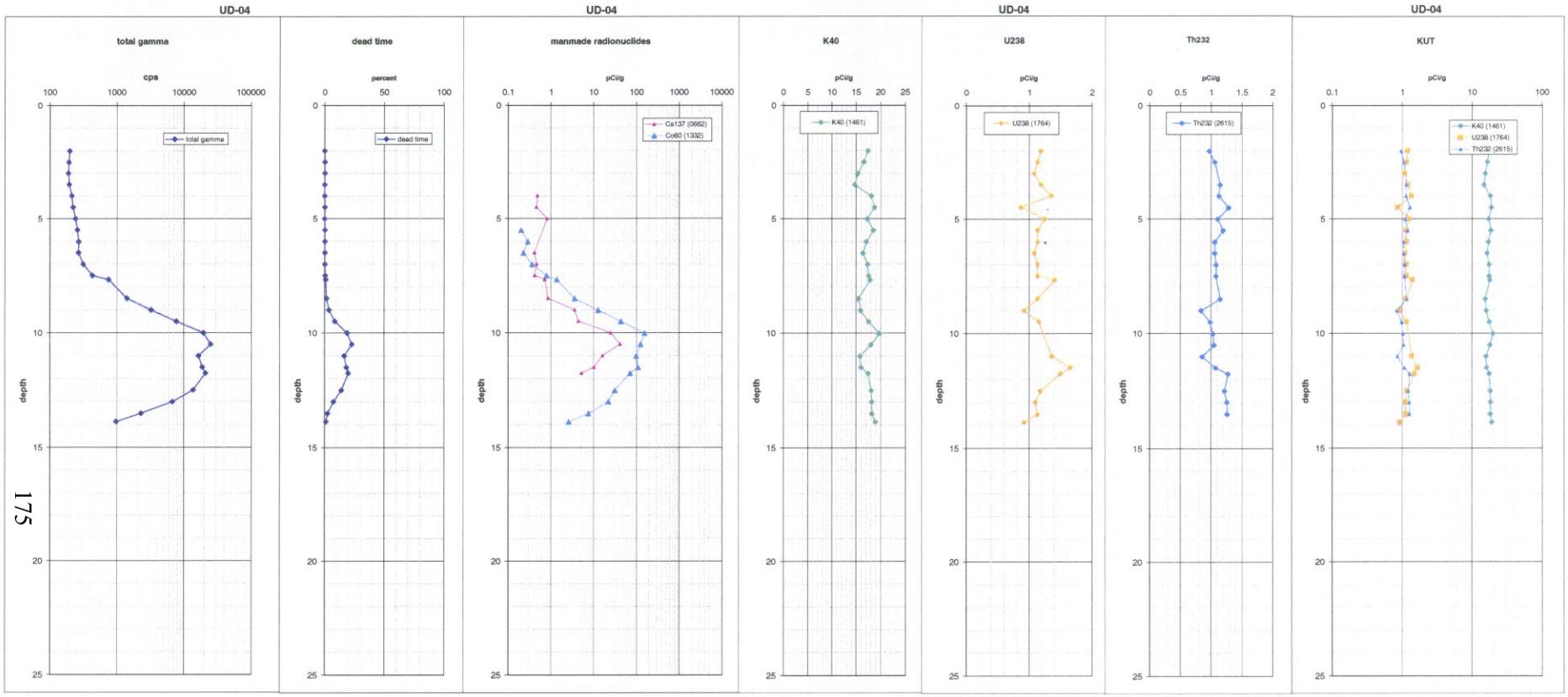

UD-03B
total gamma
cps
total gamma
dead time
percent
dead time
manmade radionuclides
pCi/g
None Identified
K40
pCi/g
K40 (1461)
U238
pCi/g
U238 (1764)
Th232
pCi/g
Th232 (2615)
KUT
pCi/g
K40 (1461)
U238 (1764)
Th232 (2615)
depth

## UD-03B

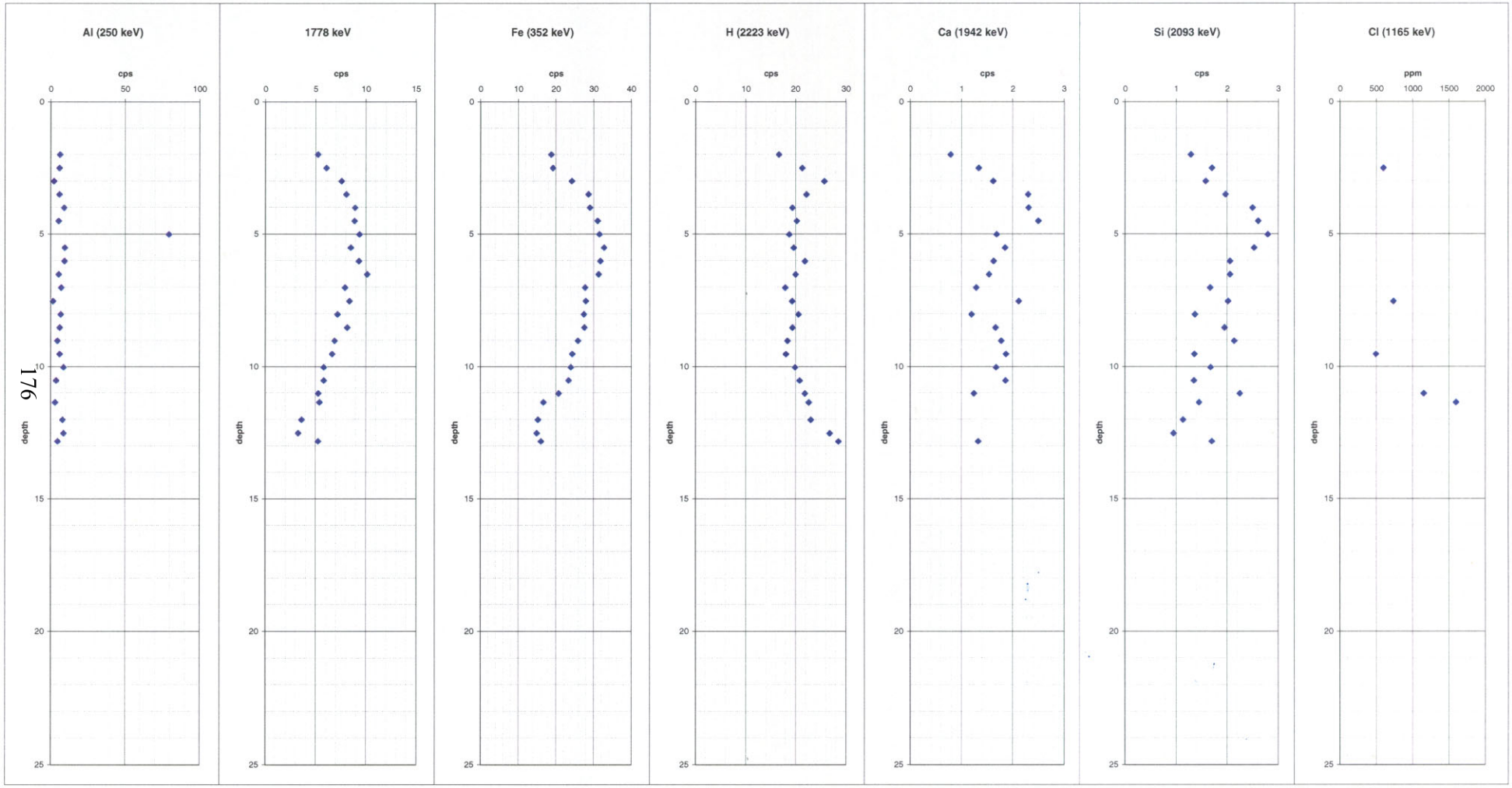

Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth

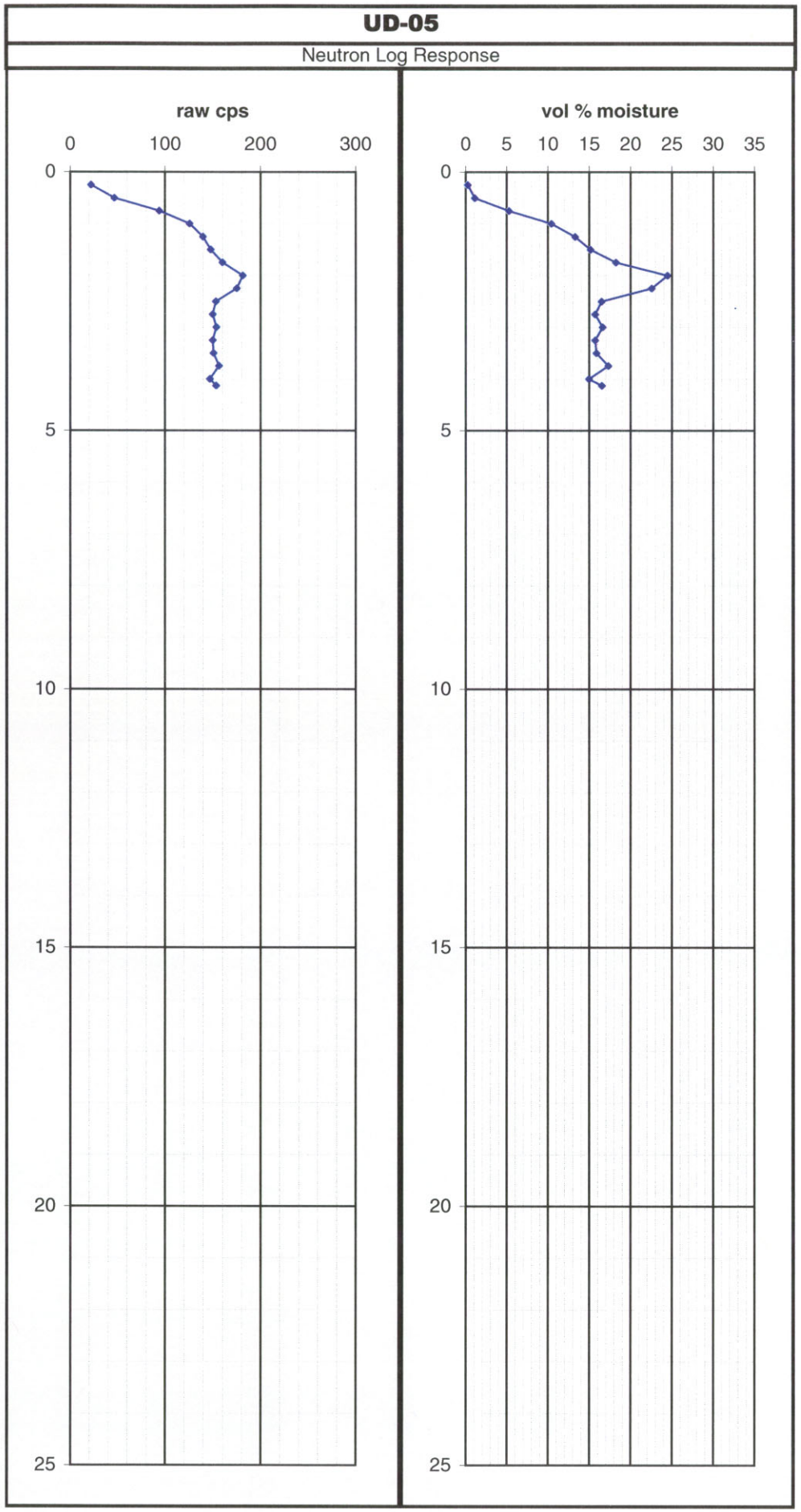

UD-04
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0 5 10 15 20 25 30 35 40 45 50
0
5
10
15
20
25

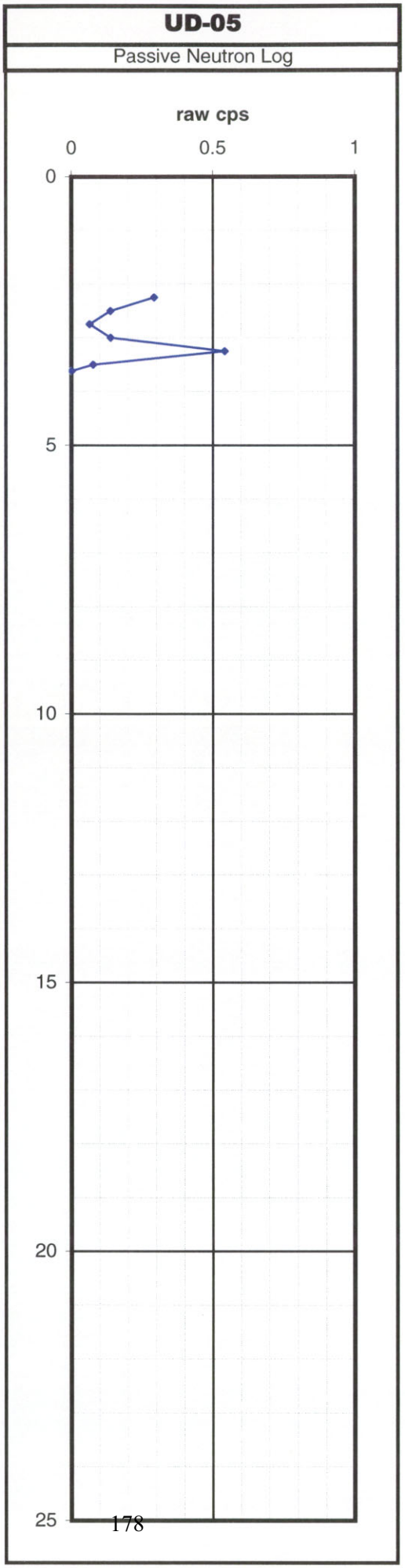

UD-04
Passive Neutron Log
raw cps
0
0.5
1
0
5
10
15
20
25

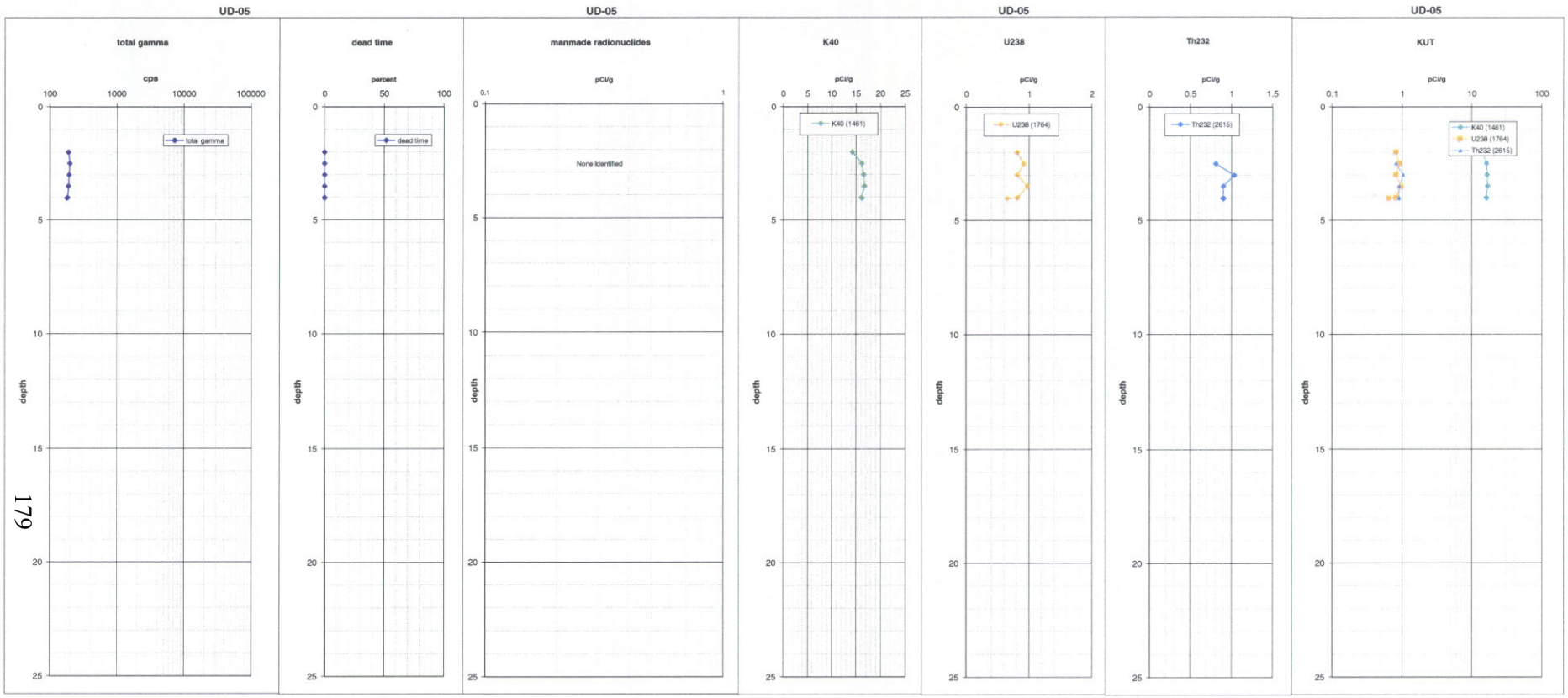

UD-04
total gamma
cps
total gamma
depth
UD-04
dead time
percent
dead time
depth
UD-04
manmade radionuclides
pCi/g
Cs137 (0662)
Co60 (1332)
depth
UD-04
K40
pCi/g
K40 (1461)
depth
UD-04
U238
pCi/g
U238 (1764)
depth
UD-04
Th232
pCi/g
Th232 (2615)
depth
UD-04
KUT
pCi/g
K40 (1461)
U238 (1764)
Th232 (2615)
depth

## UD-04

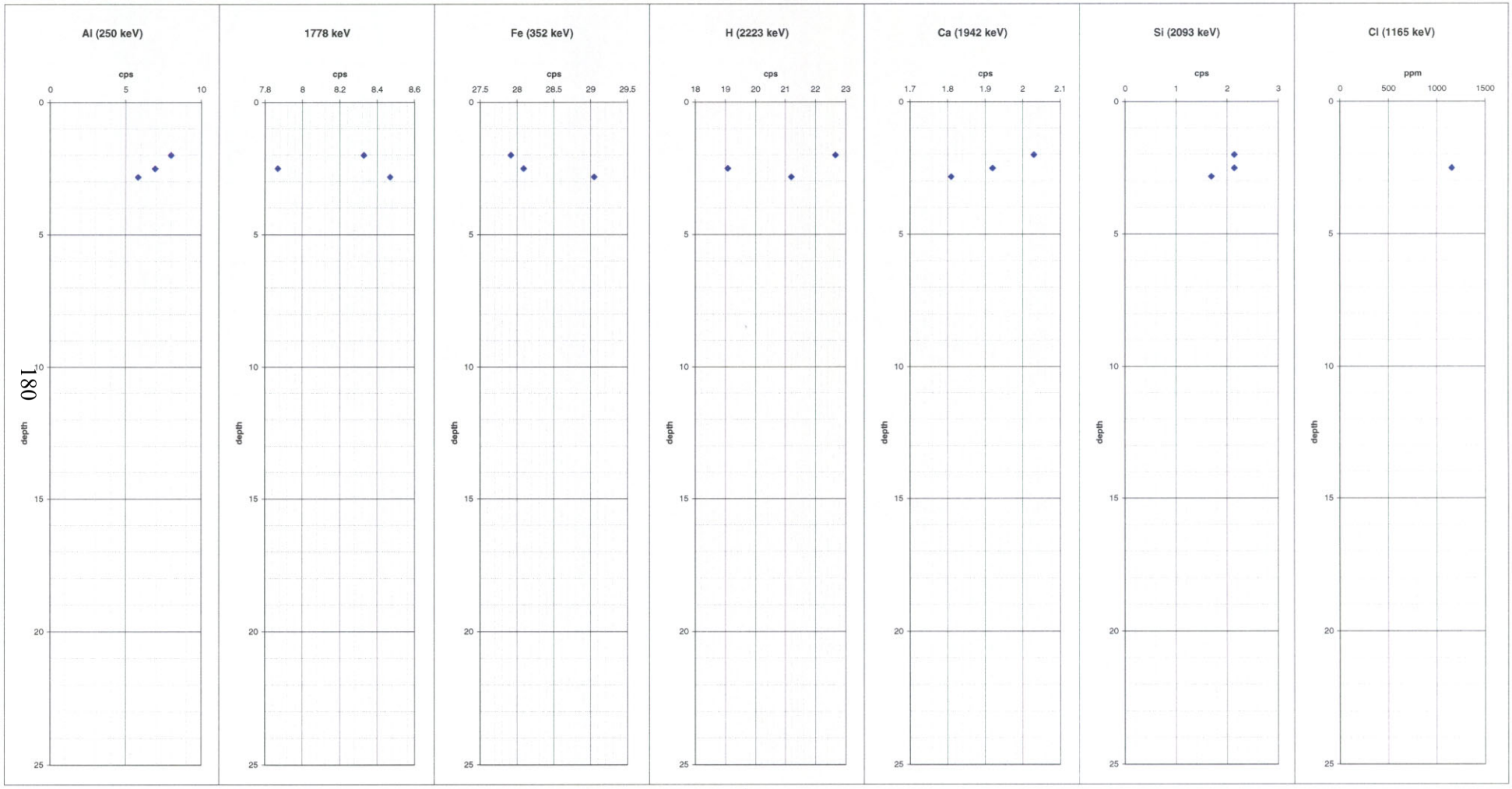

Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth

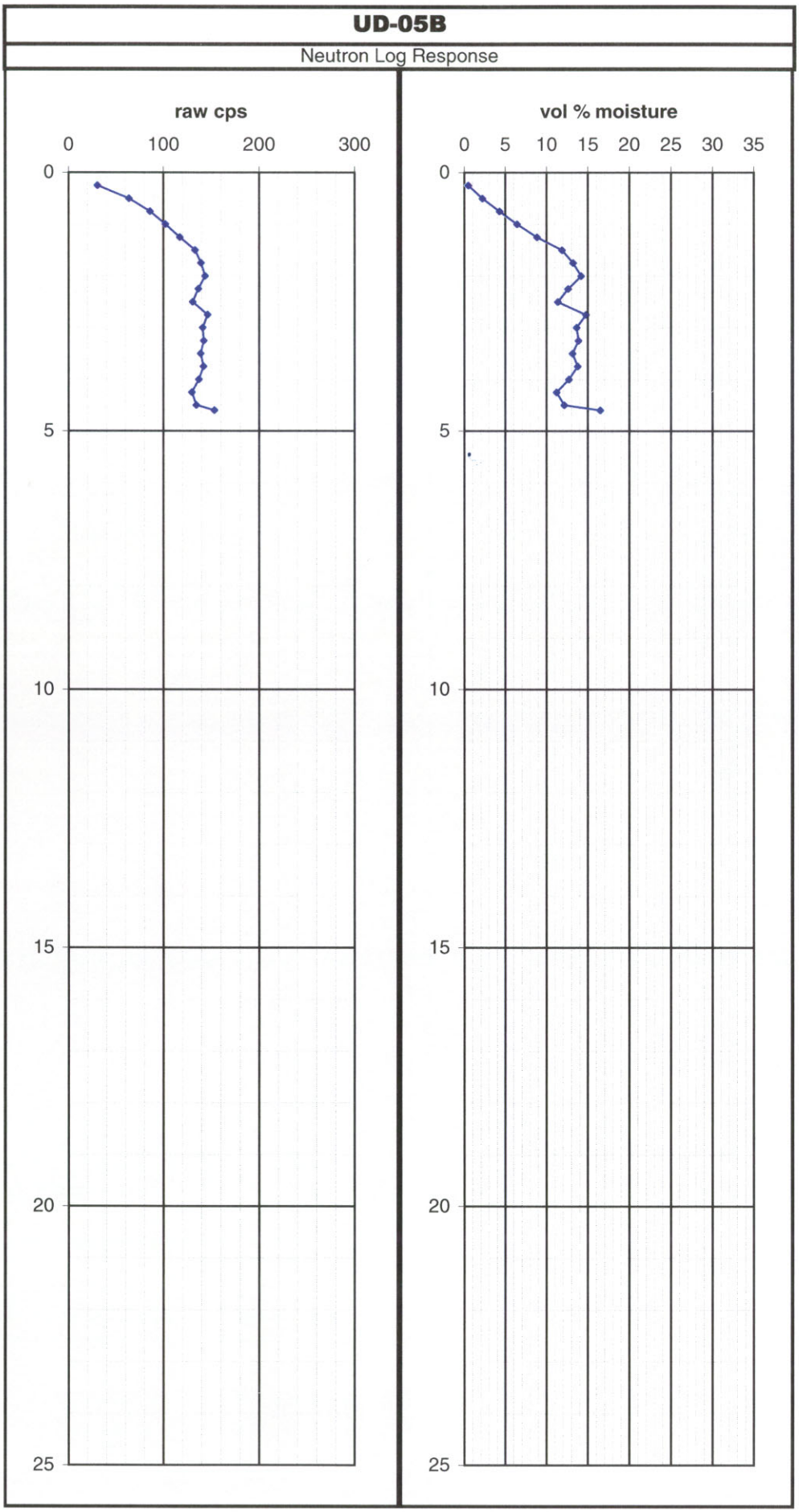

UD-05
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
35
0
5
10
15
20
25


UD-05
Passive Neutron Log
raw cps
0
0.5
1
0
5
10
15
20
25


UD-05
total gamma
cps
100
1000
10000
100000
total gamma
depth
0
5
10
15
20
25
UD-05
dead time
percent
0
50
100
dead time
depth
UD-05
manmade radionuclides
pCi/g
0.1
1
None Identified
depth
UD-05
K40
pCi/g
0
5
10
15
20
25
K40 (1461)
depth
UD-05
U238
pCi/g
0
1
2
U238 (1764)
depth
UD-05
Th232
pCi/g
0
0.5
1
1.5
Th232 (2615)
depth
UD-05
KUT
pCi/g
0.1
1
10
100
K40 (1461)
U238 (1764)
Th232 (2615)
depth

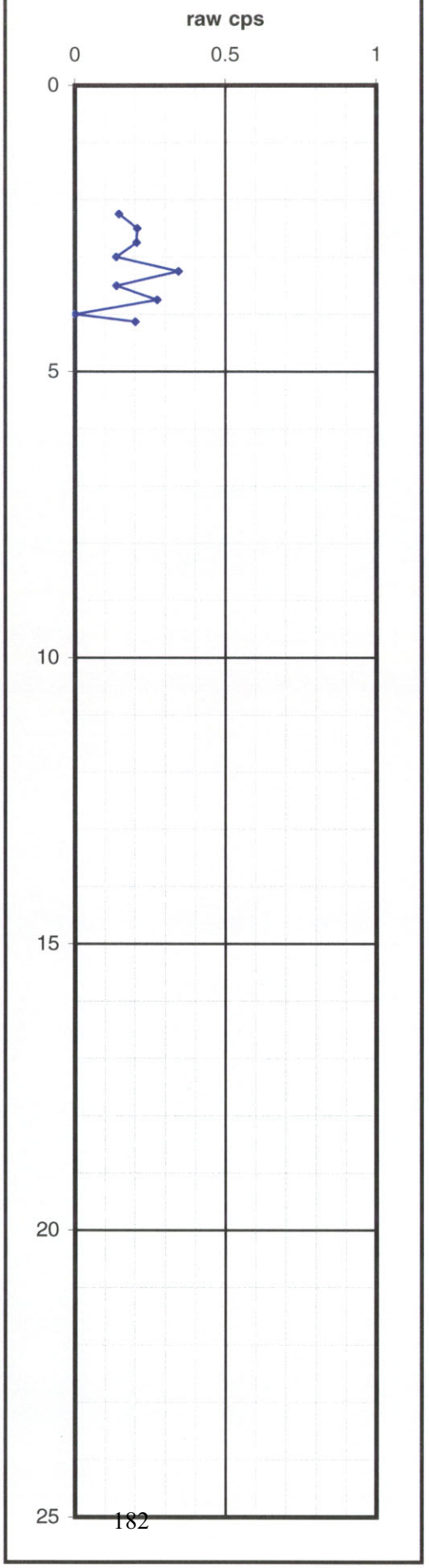
## UD-05

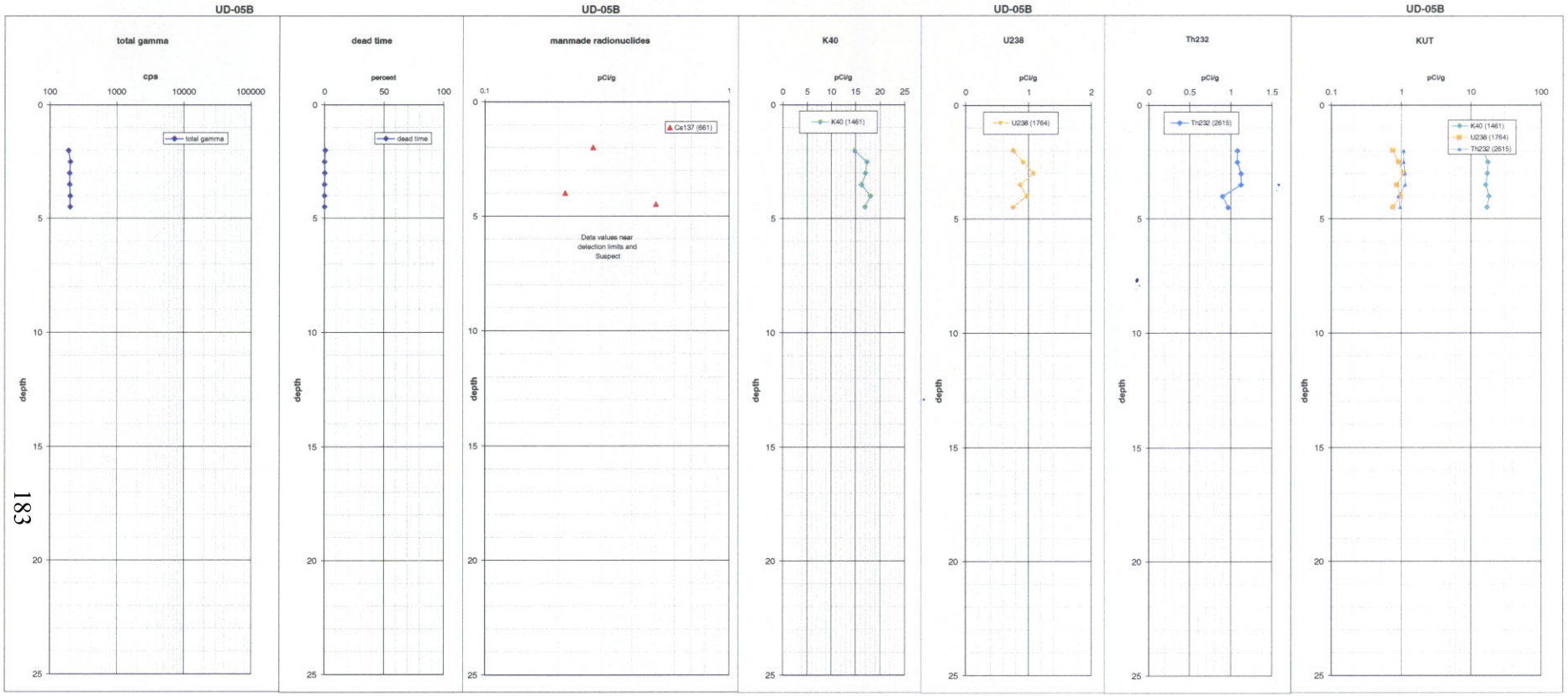

Al (250 keV)
cps
0 5 10
1778 keV
cps
7.8 8 8.2 8.4 8.6
Fe (352 keV)
cps
27.5 28 28.5 29 29.5
H (2223 keV)
cps
18 19 20 21 22 23
Ca (1942 keV)
cps
1.7 1.8 1.9 2 2.1
Si (2093 keV)
cps
0 1 2 3
Cl (1165 keV)
ppm
0 500 1000 1500
depth
0 5 10 15 20 25


UD-05B
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
35
0
5
10
15
20
25

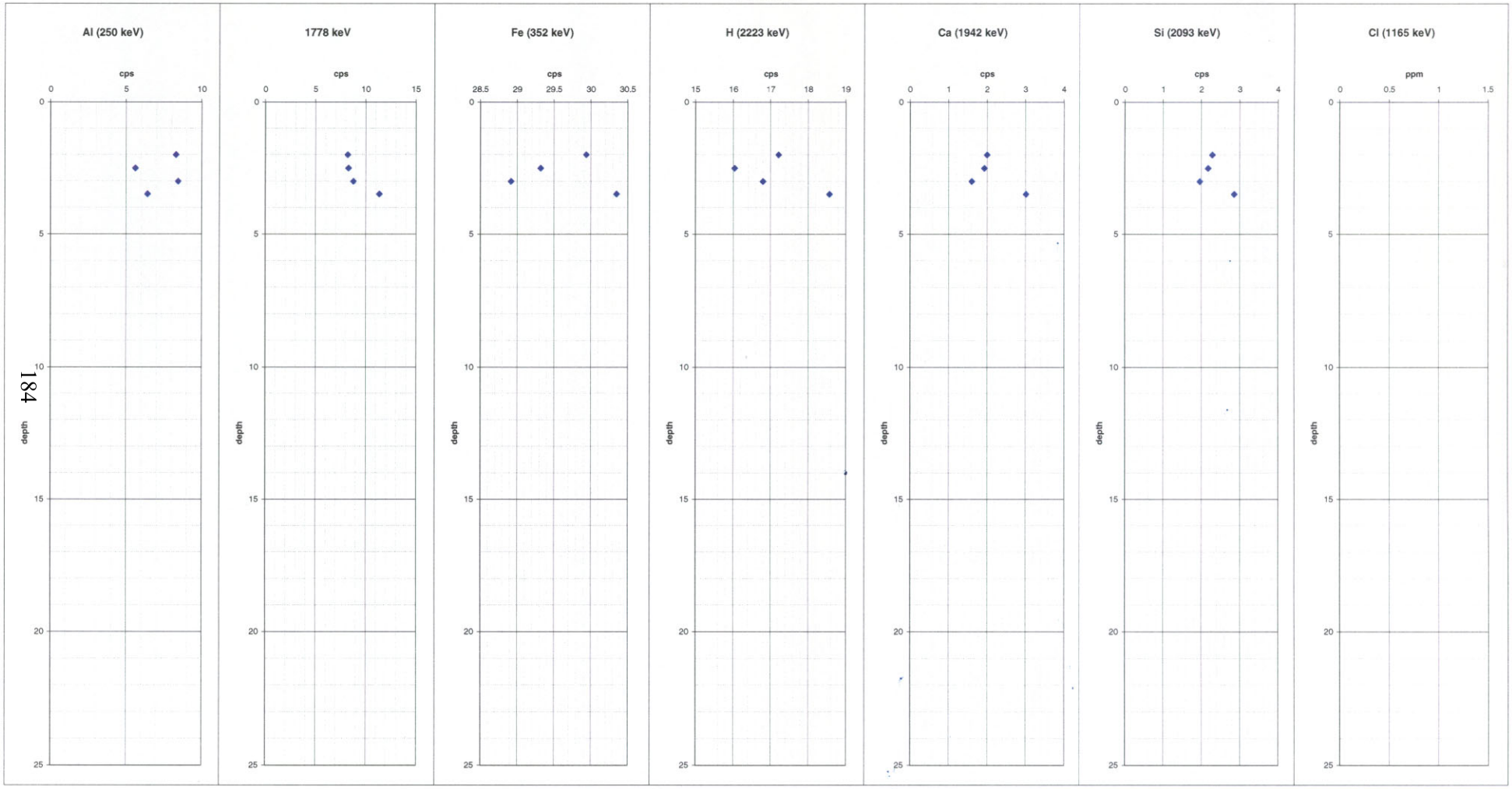
**UD-05b**

Passive Neutron Log



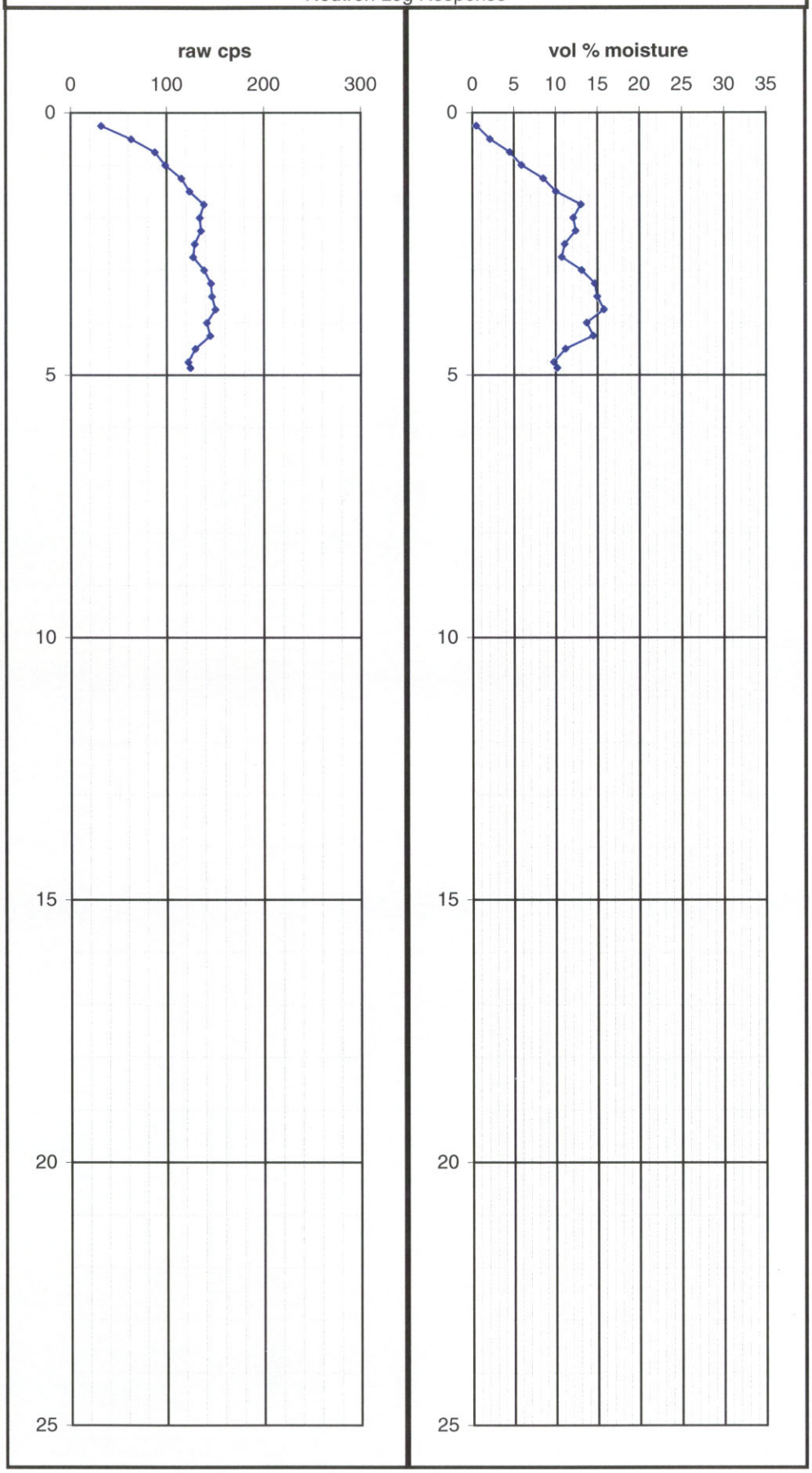

UD-05B
total gamma
cps
100
1000
10000
100000
total gamma
depth
0
5
10
15
20
25
UD-05B
dead time
percent
0
50
100
dead time
depth
UD-05B
manmade radionuclides
pCi/g
0.1
1
Cs137 (661)
Data values near detection limits and Suspect
depth
UD-05B
K40
pCi/g
0
5
10
15
20
25
K40 (1461)
depth
UD-05B
U238
pCi/g
0
1
2
U238 (1764)
depth
UD-05B
Th232
pCi/g
0
0.5
1
1.5
Th232 (2615)
depth
UD-05B
KUT
pCi/g
0.1
1
10
100
K40 (1461)
U238 (1764)
Th232 (2615)
depth

## UD-05B


Al (250 keV)
cps
0 5 10
1778 keV
cps
0 5 10 15
Fe (352 keV)
cps
28.5 29 29.5 30 30.5
H (2223 keV)
cps
15 16 17 18 19
Ca (1942 keV)
cps
0 1 2 3 4
Si (2093 keV)
cps
0 1 2 3 4
Cl (1165 keV)
ppm
0 0.5 1 1.5
depth
0 5 10 15 20 25

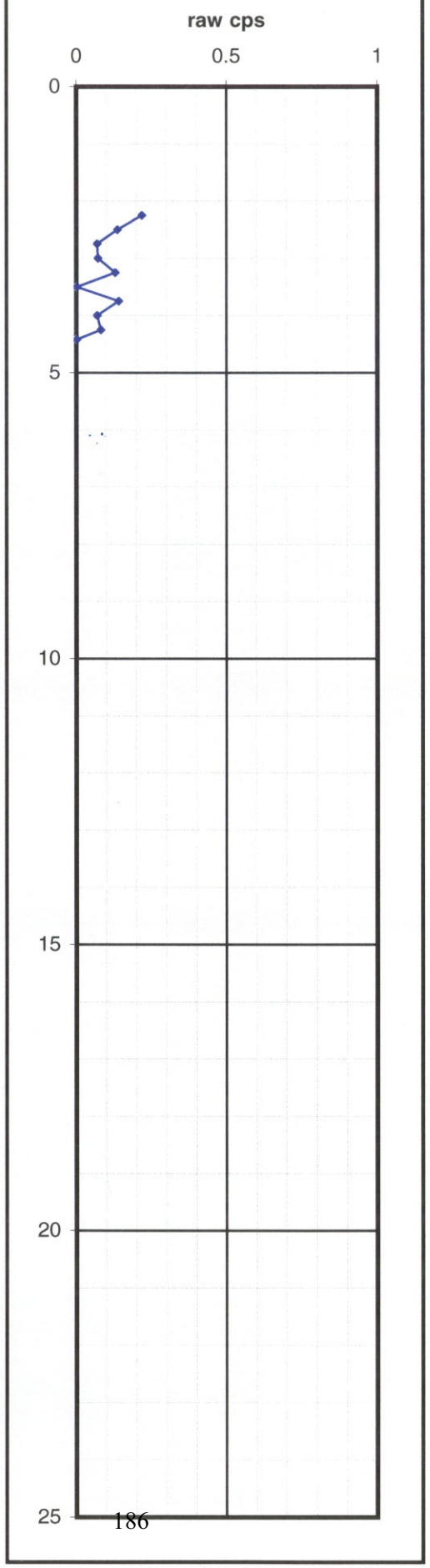
## UD-05C

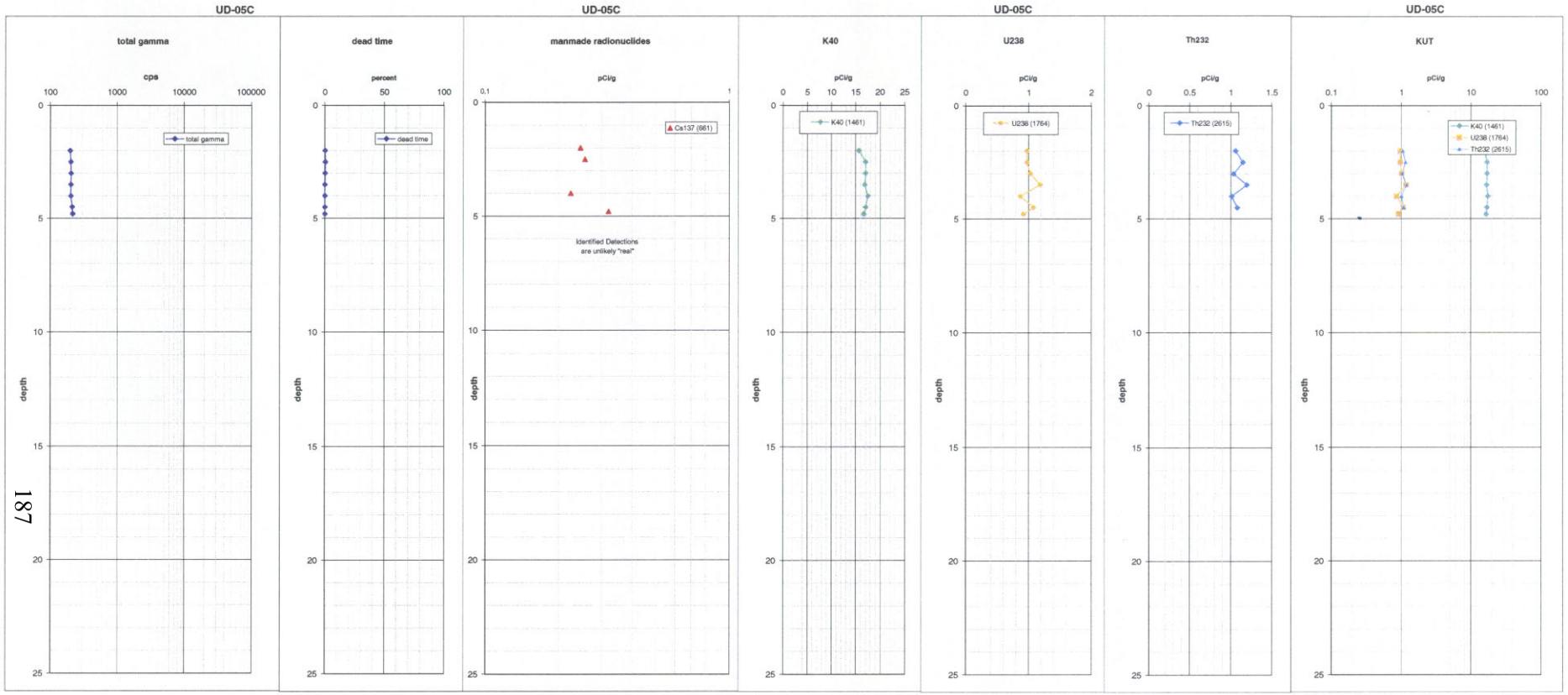
Neutron Log Response



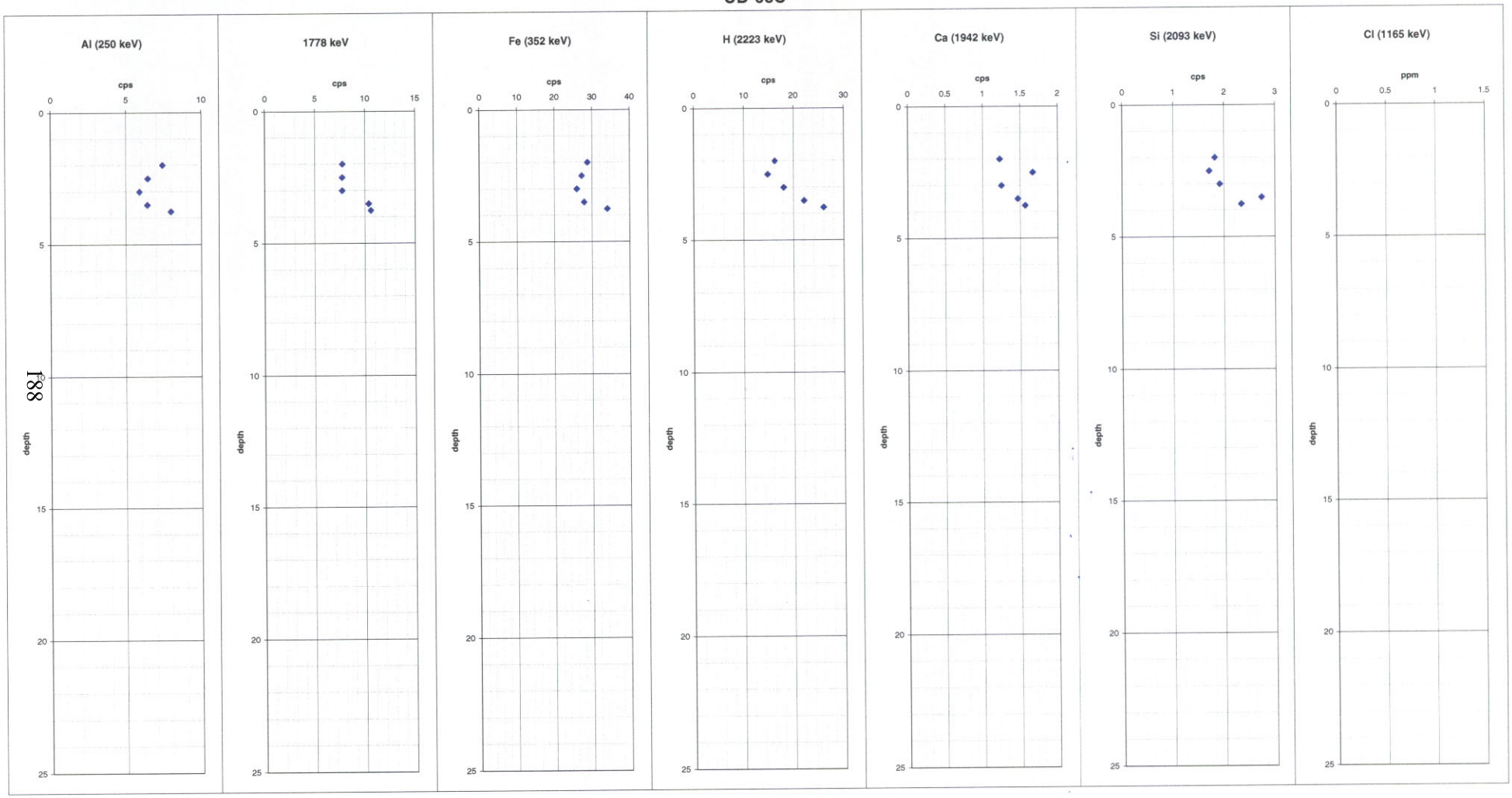
## UD-05c

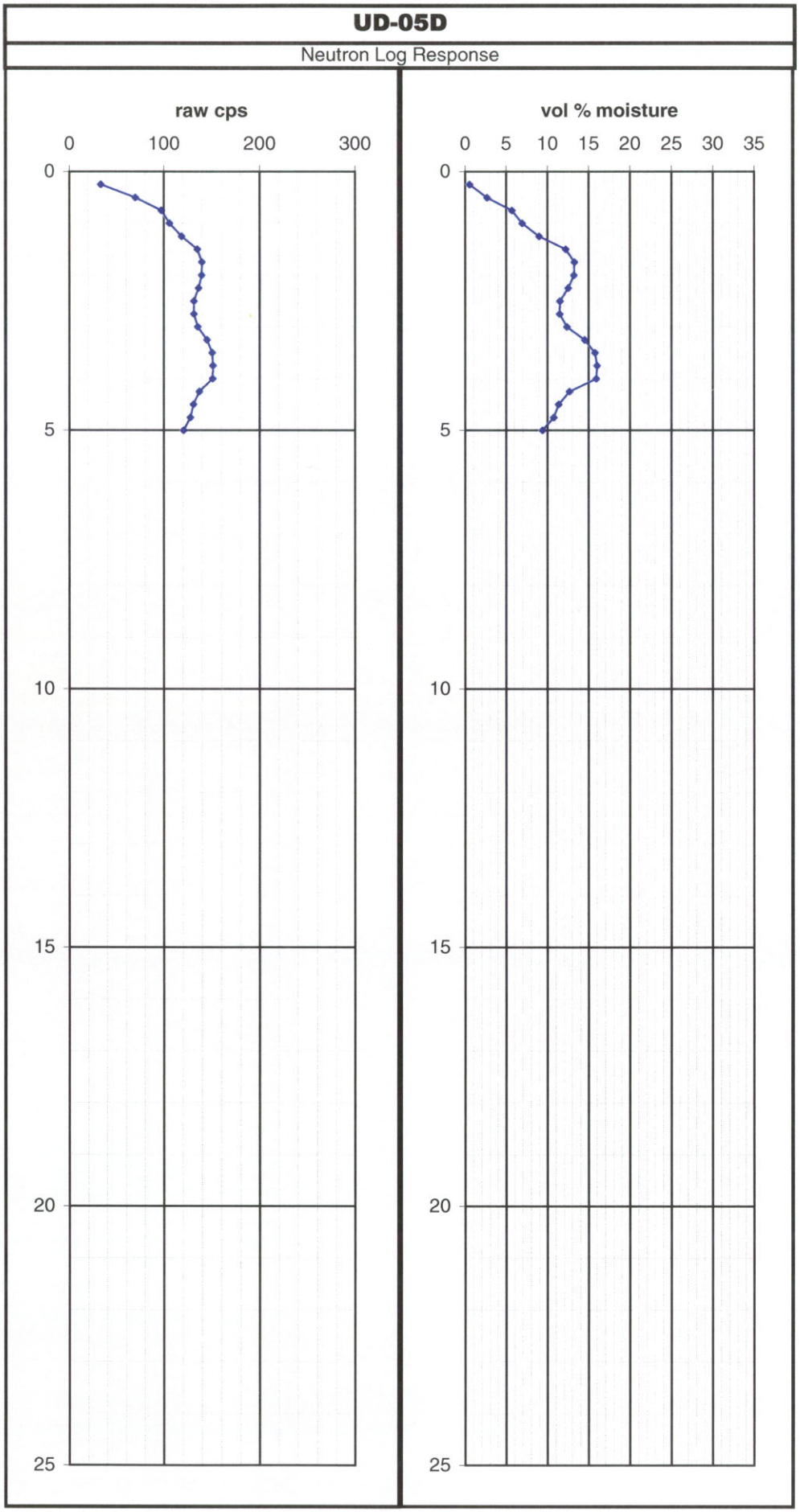
Passive Neutron Log

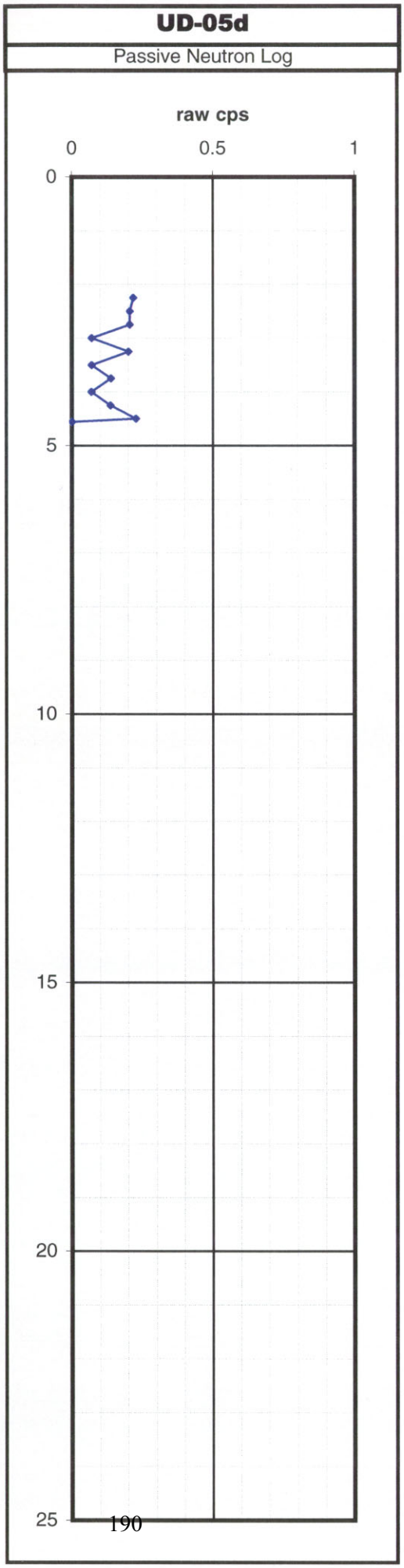


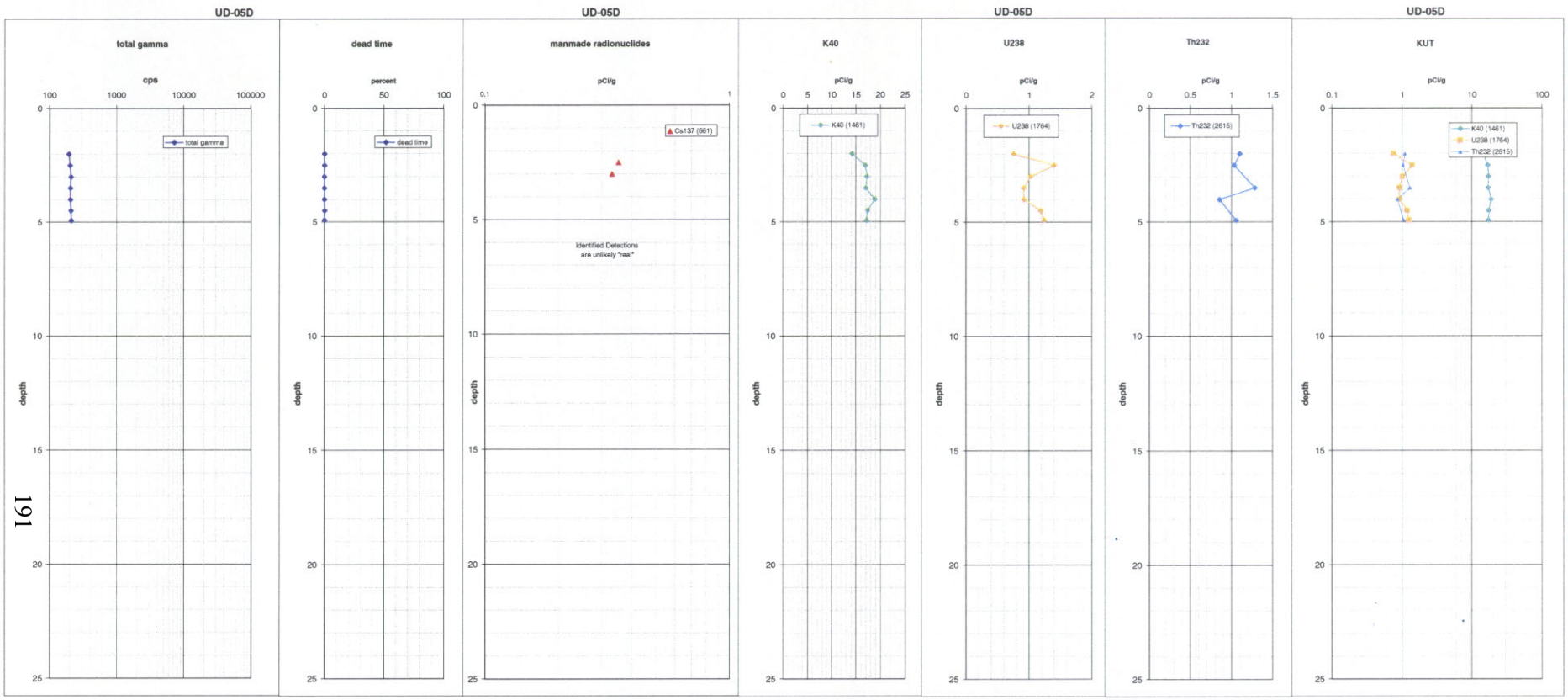

UD-05C
total gamma
cps
total gamma
dead time
percent
dead time
manmade radionuclides
pCi/g
Cs137 (661)
Identified Detections
are unlikely "real"
K40
pCi/g
K40 (1461)
U238
pCi/g
U238 (1764)
Th232
pCi/g
Th232 (2615)
KUT
pCi/g
K40 (1461)
U238 (1764)
Th232 (2615)
depth

# UD-05C

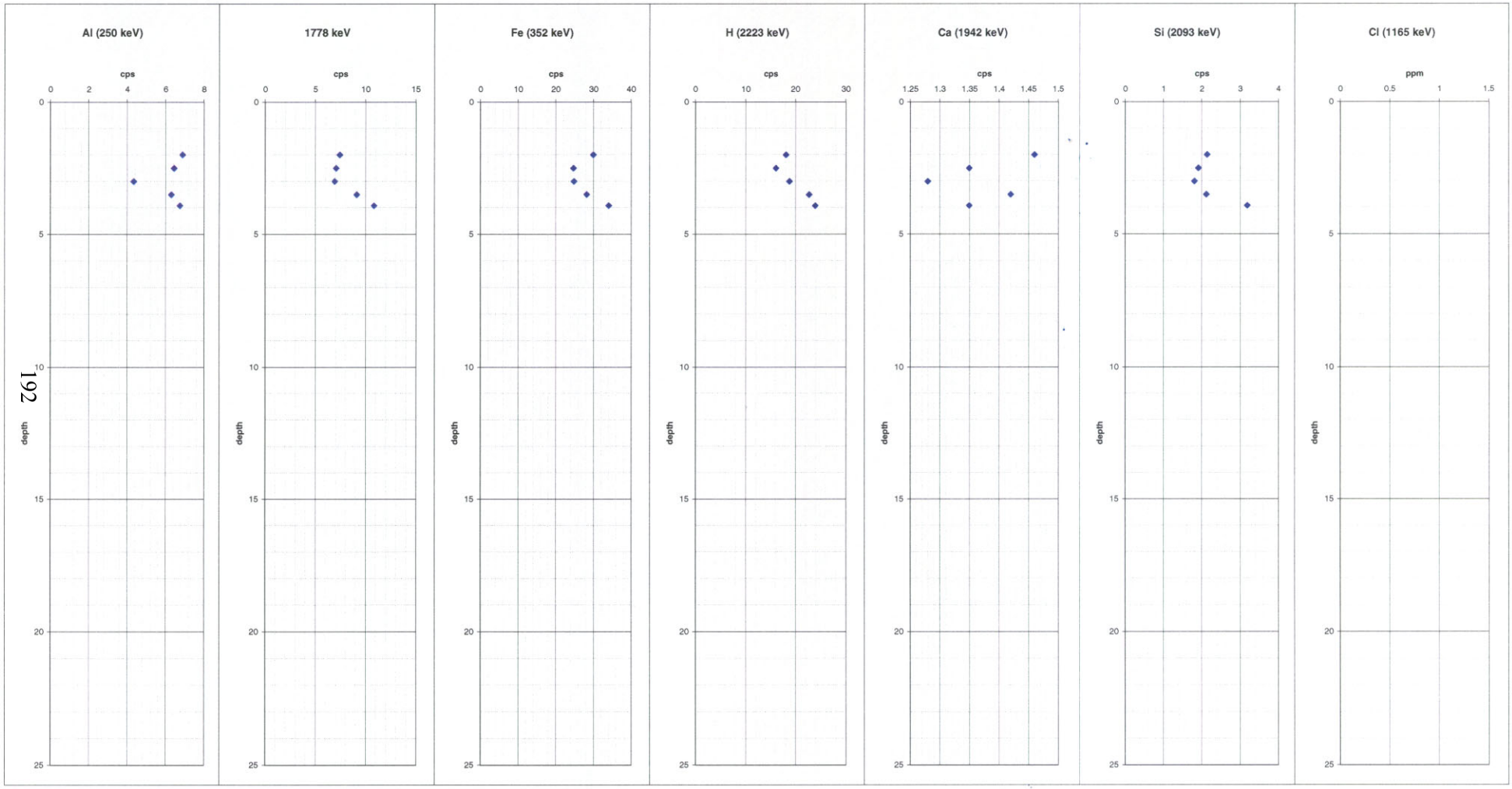

Al (250 keV)
cps
0 5 10
depth
0 5 10 15 20 25
1778 keV
cps
0 5 10 15
depth
0 5 10 15 20 25
Fe (352 keV)
cps
0 10 20 30 40
depth
0 5 10 15 20 25
H (2223 keV)
cps
0 10 20 30
depth
0 5 10 15 20 25
Ca (1942 keV)
cps
0 0.5 1 1.5 2
depth
0 5 10 15 20 25
Si (2093 keV)
cps
0 1 2 3
depth
0 5 10 15 20 25
Cl (1165 keV)
ppm
0 0.5 1 1.5
depth
0 5 10 15 20 25


UD-05D
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
35
0
5
10
15
20
25


UD-05d
Passive Neutron Log
raw cps
0
0.5
1
0
5
10
15
20
25


UD-05D
total gamma
cps
100
1000
10000
100000
total gamma
depth
UD-05D
dead time
percent
0
50
100
dead time
depth
UD-05D
manmade radionuclides
pCi/g
0.1
1
Cs137 (661)
Identified Detections
are unlikely "real"
depth
UD-05D
K40
pCi/g
K40 (1461)
depth
UD-05D
U238
pCi/g
U238 (1764)
depth
UD-05D
Th232
pCi/g
Th232 (2615)
depth
UD-05D
KUT
pCi/g
K40 (1461)
U238 (1764)
Th232 (2615)
depth

## UD-05D


Al (250 keV)
cps
0 2 4 6 8
1778 keV
cps
0 5 10 15
Fe (352 keV)
cps
0 10 20 30 40
H (2223 keV)
cps
0 10 20 30
Ca (1942 keV)
cps
1.25 1.3 1.35 1.4 1.45 1.5
Si (2093 keV)
cps
0 1 2 3 4
Cl (1165 keV)
ppm
0 0.5 1 1.5
depth
0 5 10 15 20 25