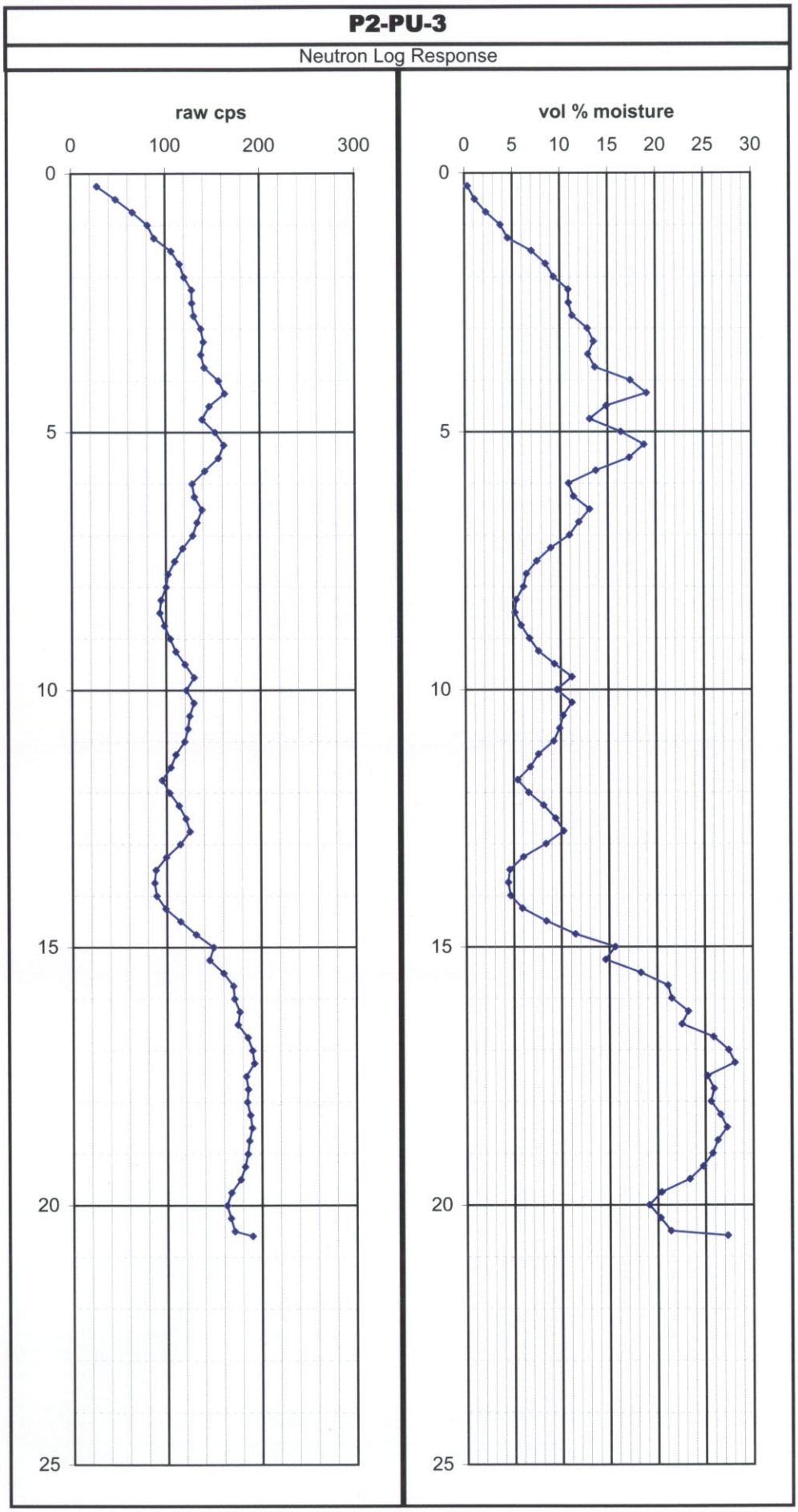
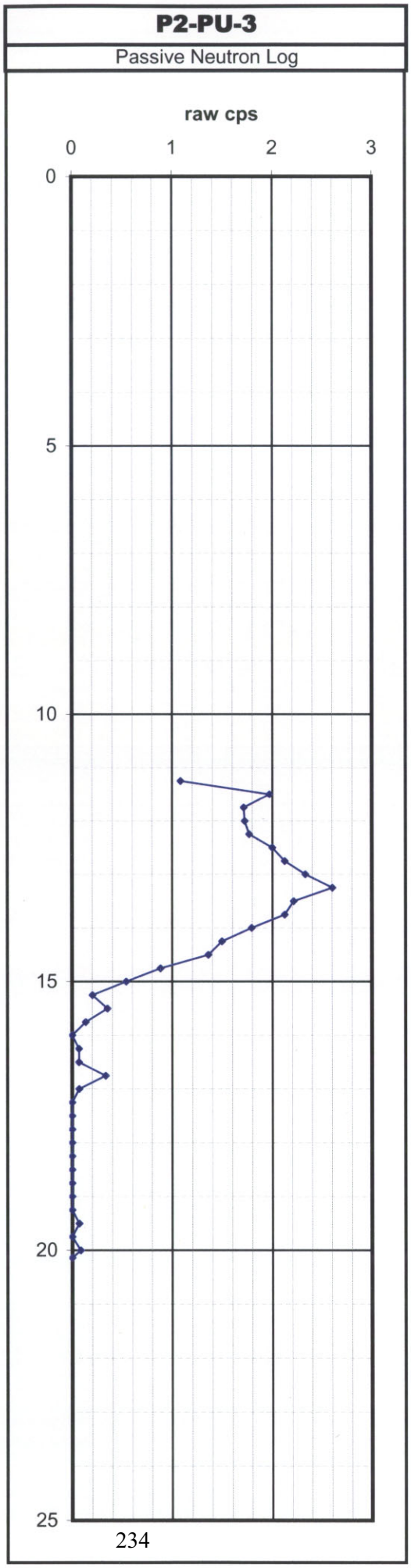
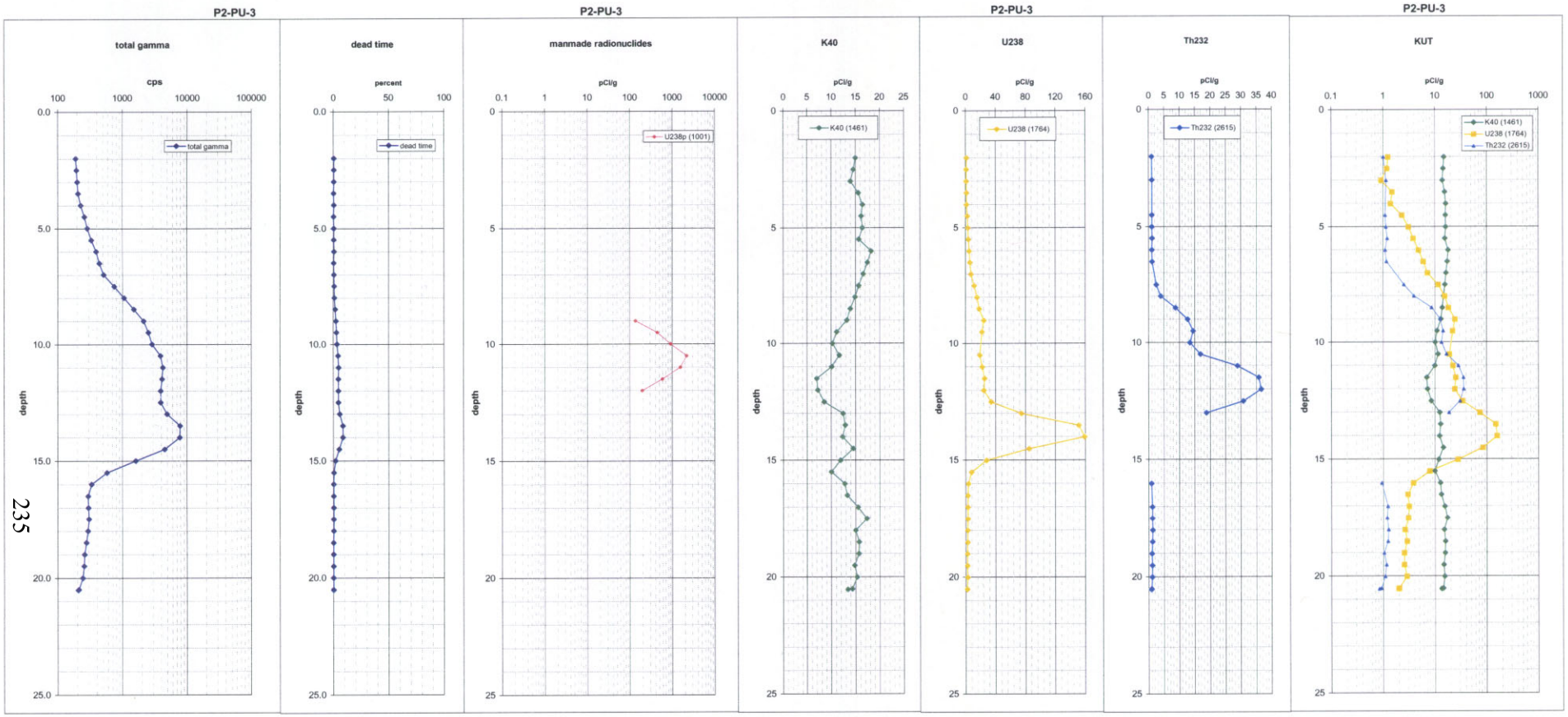
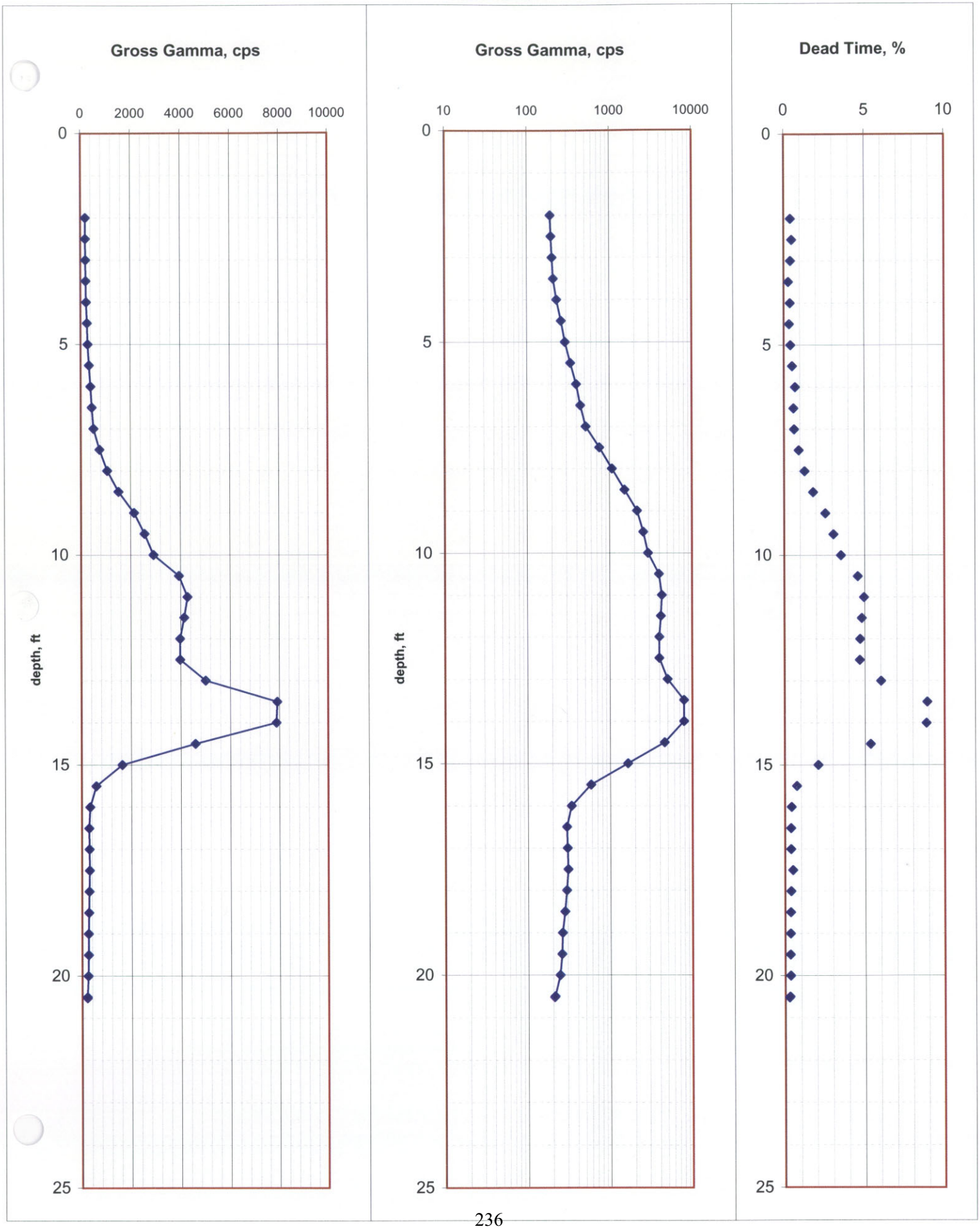

P2-PU-3
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30

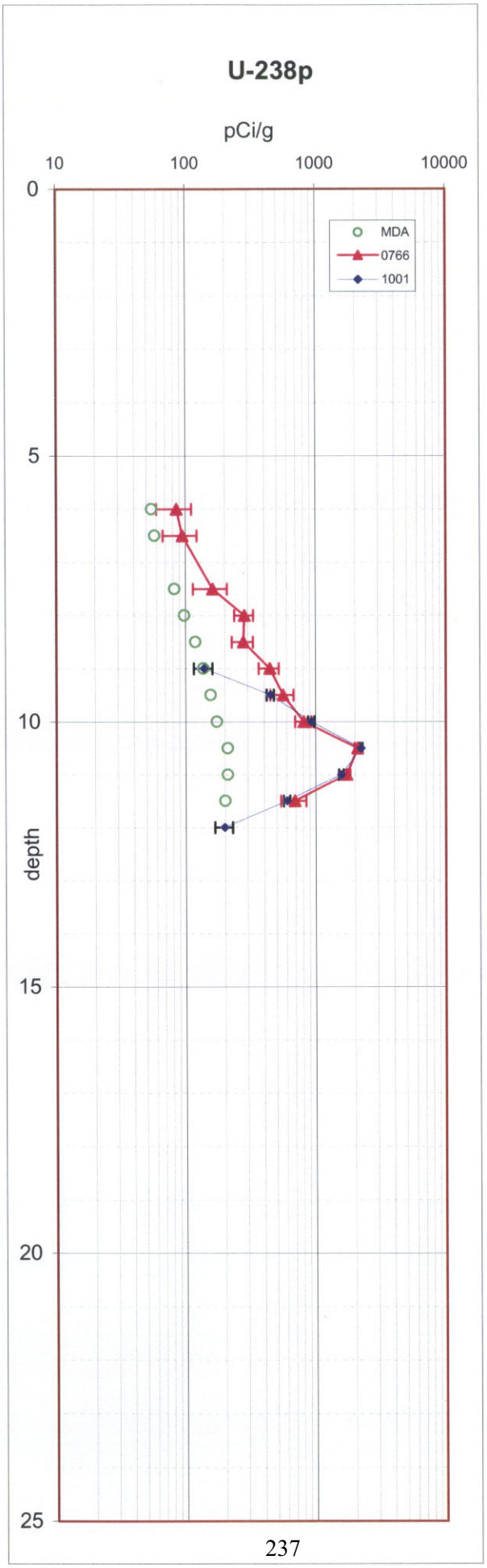

P2-PU-3
Passive Neutron Log
raw cps
0
1
2
3
0
5
10
15
20
25


P2-PU-3
total gamma
cps
100
1000
10000
100000
depth
0.0
5.0
10.0
15.0
20.0
25.0
total gamma
P2-PU-3
dead time
percent
0
50
100
dead time
P2-PU-3
manmade radionuclides
pCi/g
0.1
1
10
100
1000
10000
U238p (1001)
P2-PU-3
K40
pCi/g
0
5
10
15
20
25
K40 (1461)
P2-PU-3
U238
pCi/g
0
40
80
120
160
U238 (1764)
P2-PU-3
Th232
pCi/g
0
5
10
15
20
25
30
35
40
Th232 (2615)
P2-PU-3
KUT
pCi/g
0.1
1
10
100
1000
K40 (1461)
U238 (1764)
Th232 (2615)

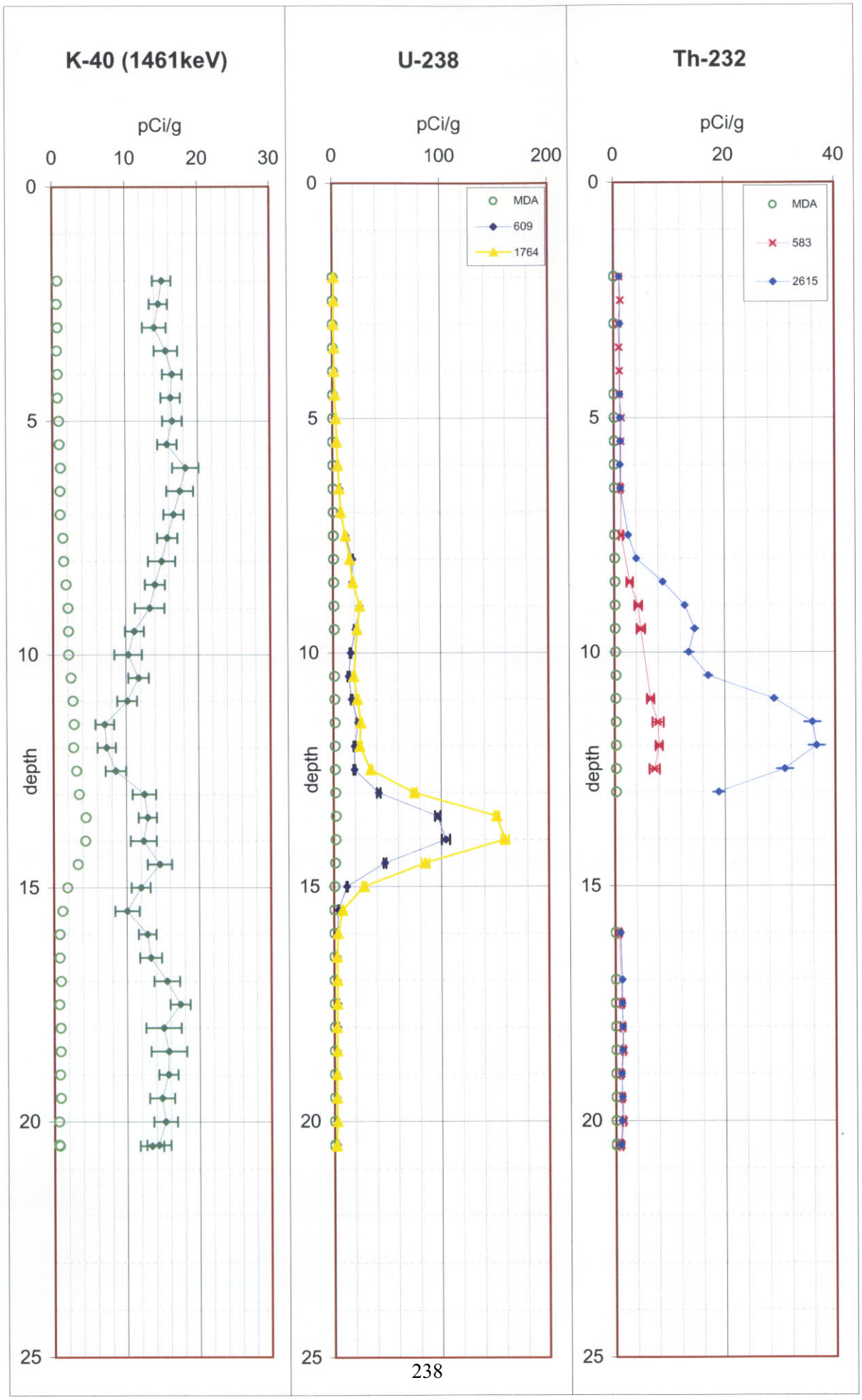
P2-PU-3


Gross Gamma, cps
0
2000
4000
6000
8000
10000
depth, ft
0
5
10
15
20
25
Gross Gamma, cps
10
100
1000
10000
depth, ft
0
5
10
15
20
25
Dead Time, %
0
5
10
0
5
10
15
20
25

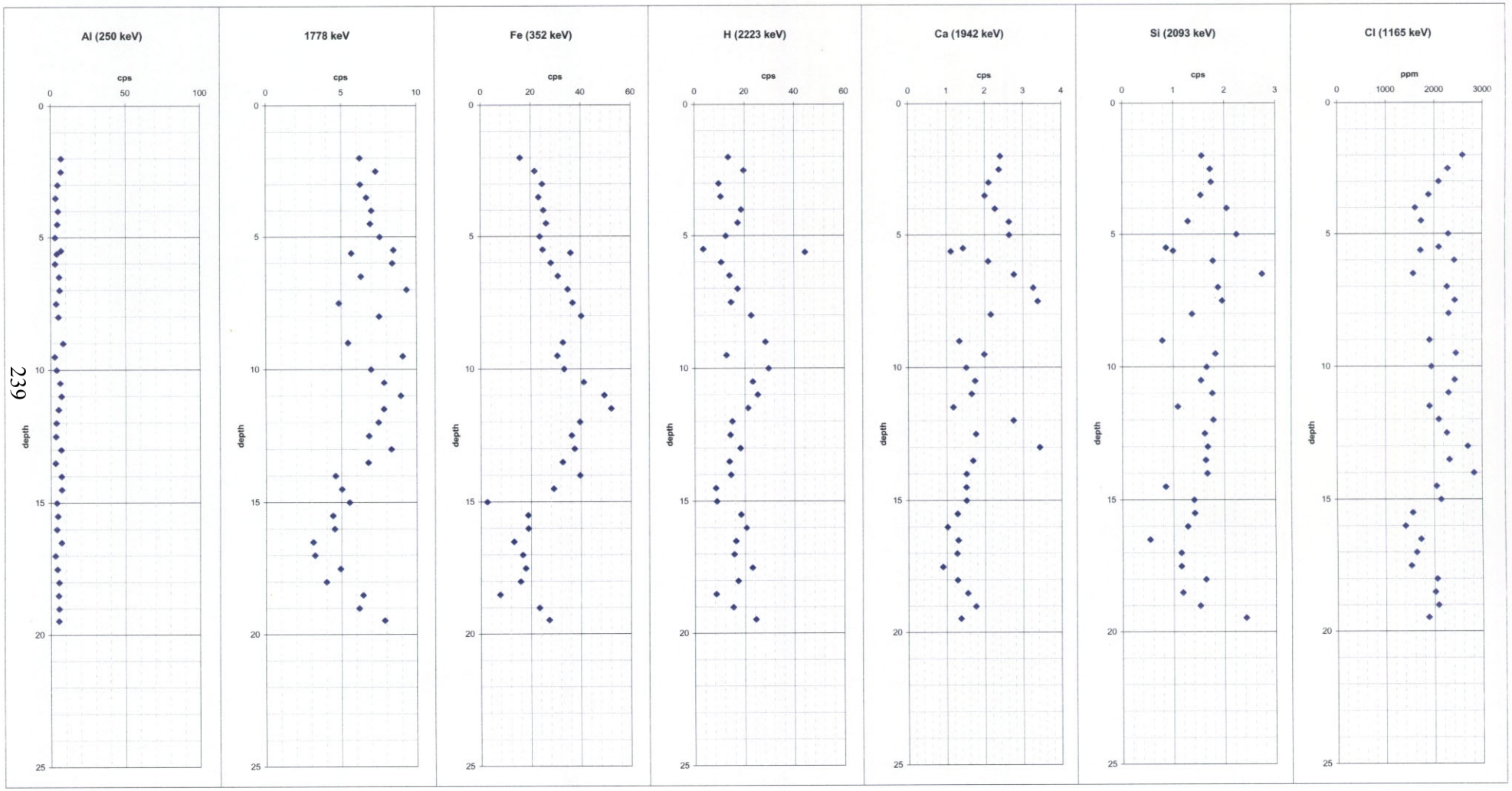
P2-PU-3

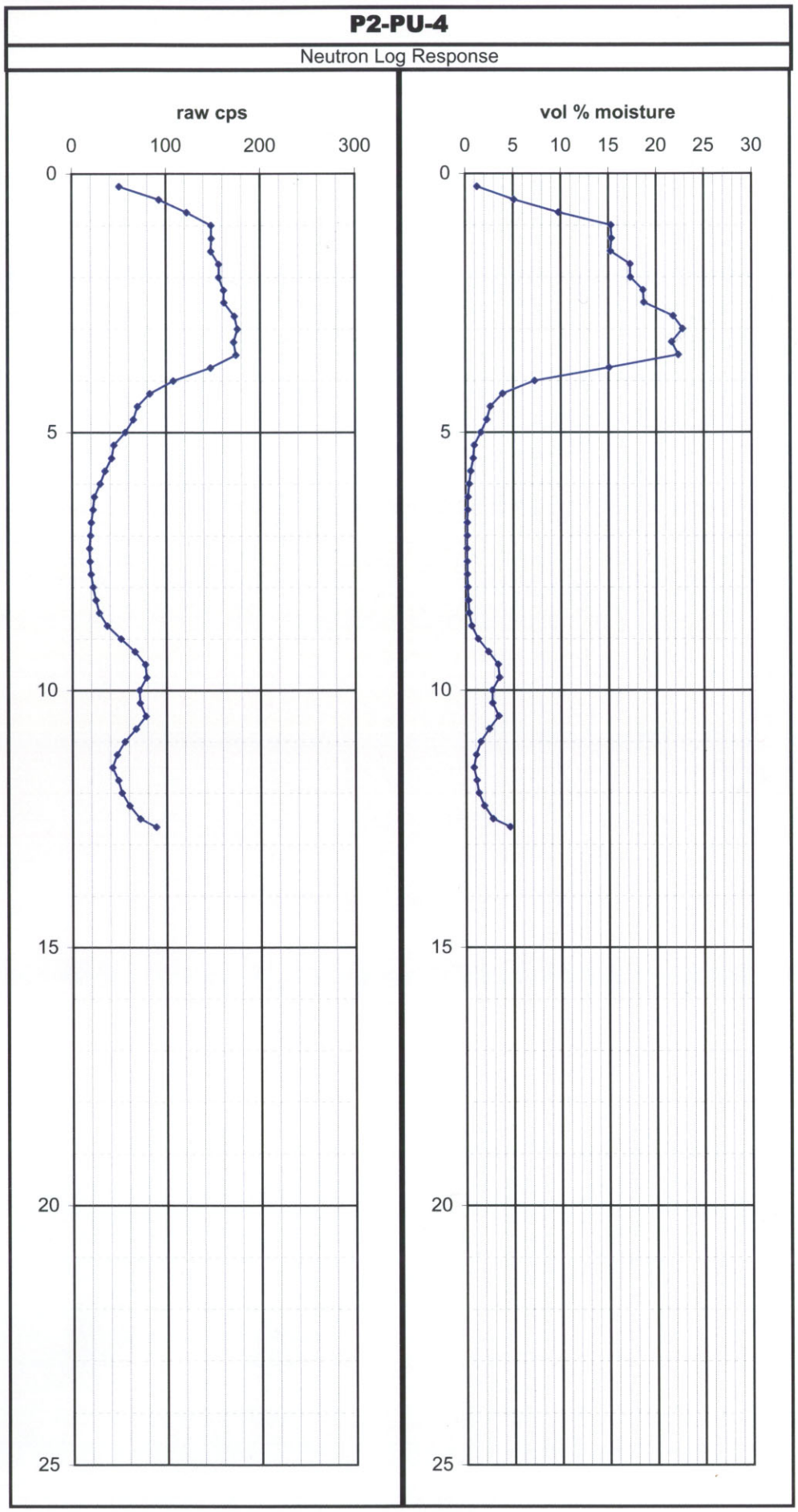


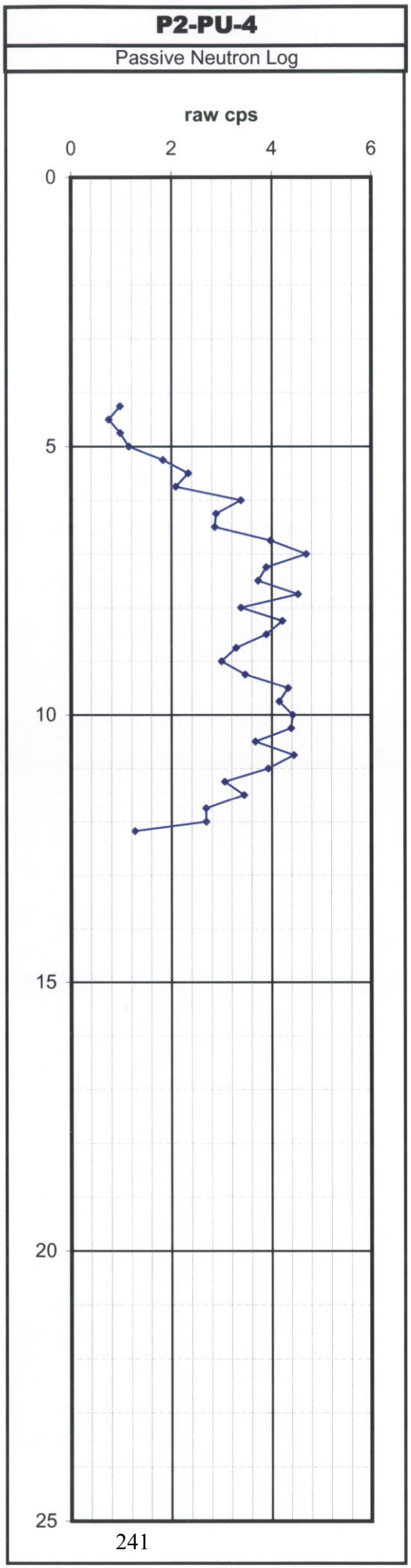
P2-PU-3

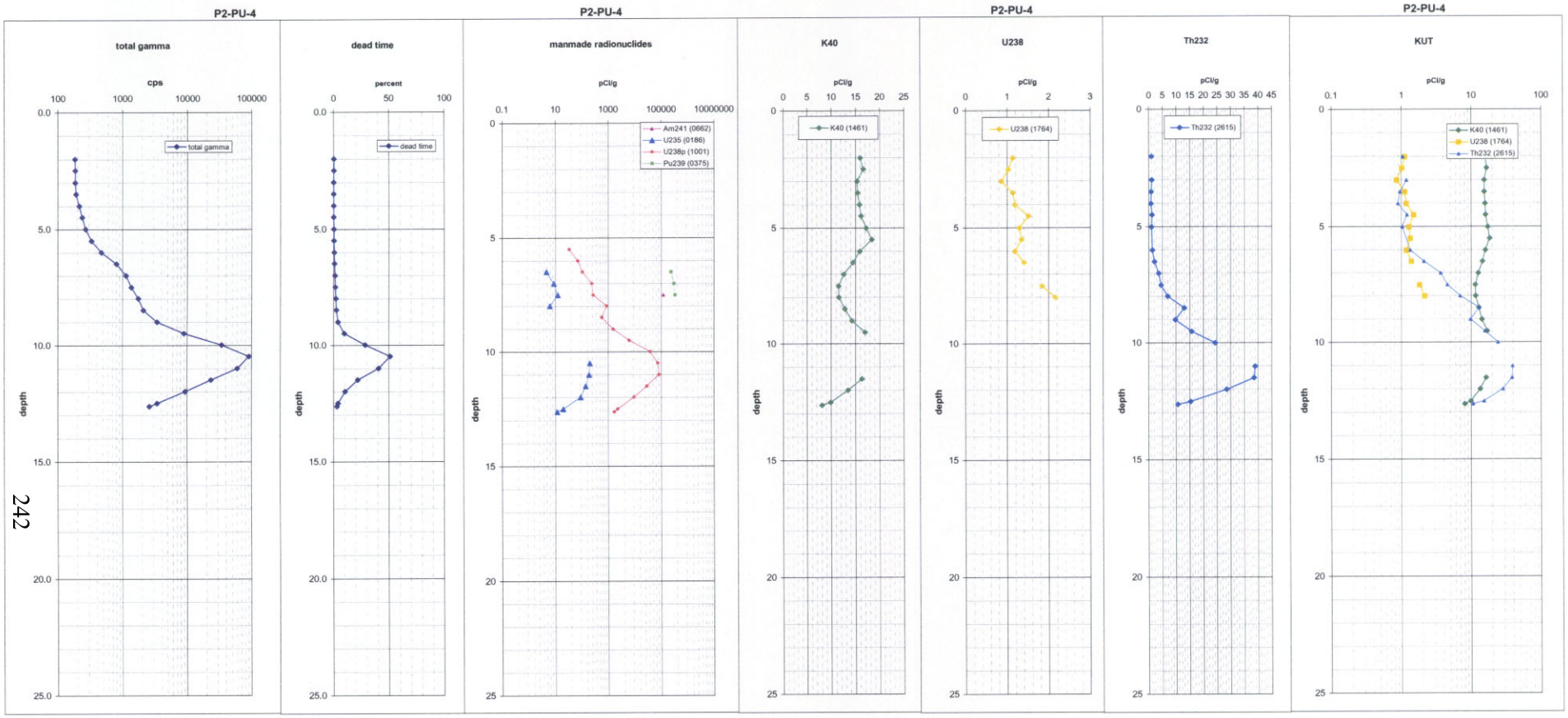

K-40 (1461keV)
pCi/g
0
10
20
30
depth
0
5
10
15
20
25
U-238
pCi/g
0
100
200
MDA
609
1764
Th-232
pCi/g
0
20
40
MDA
583
2615

P2-PU-3

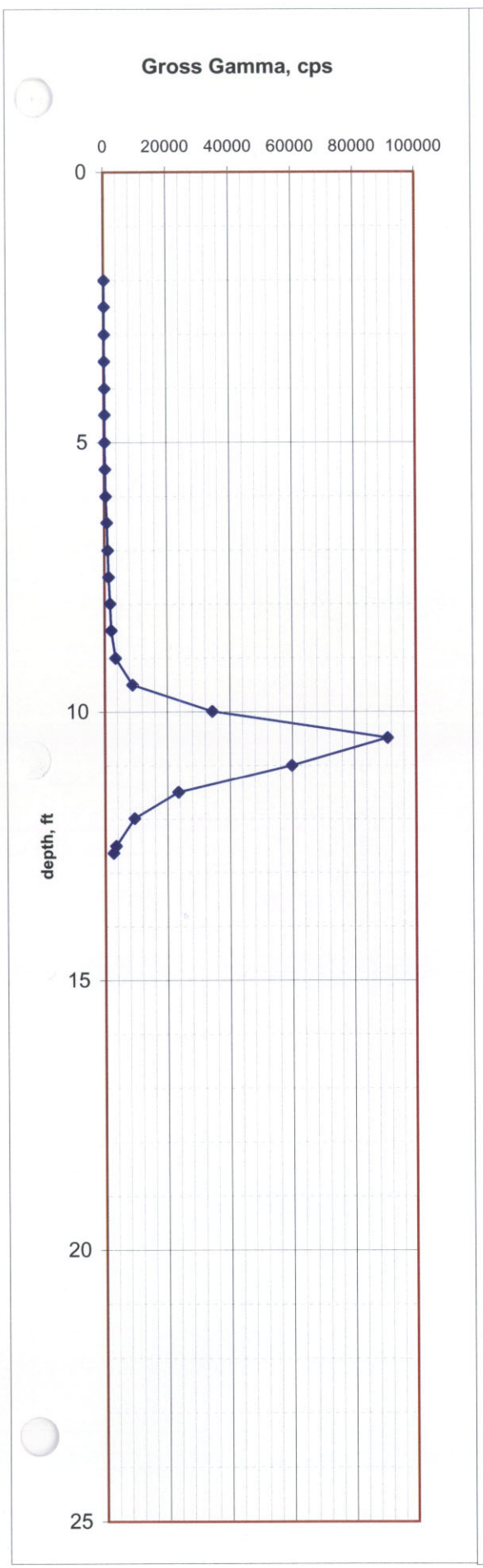

Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth

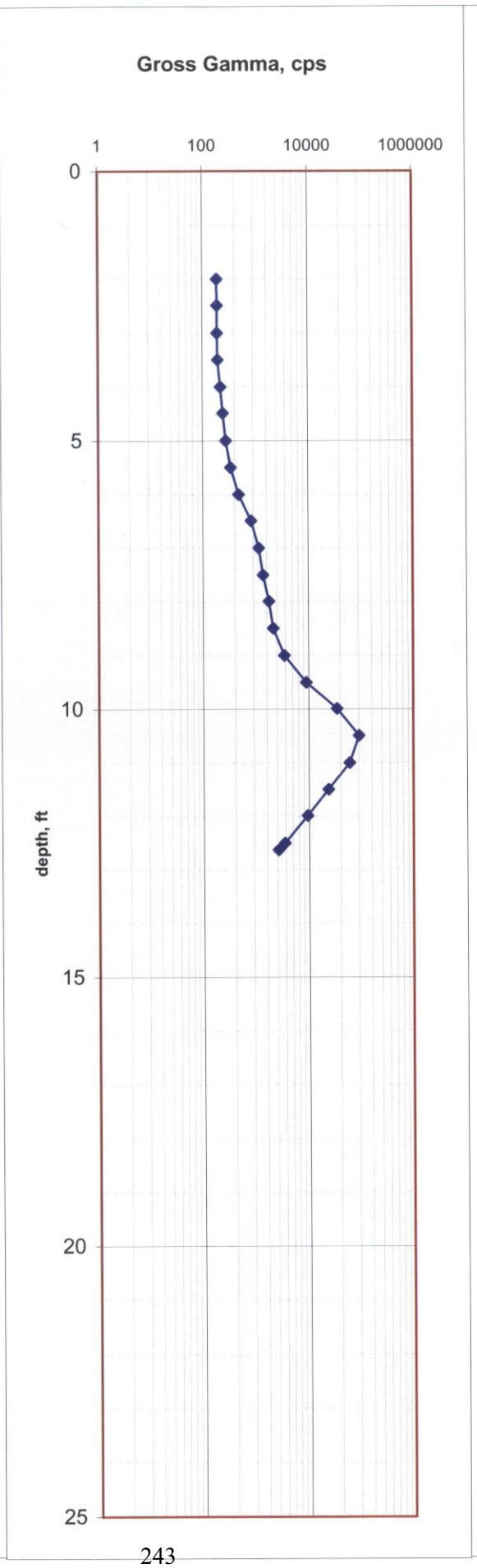

P2-PU-4
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
0
5
10
15
20
25

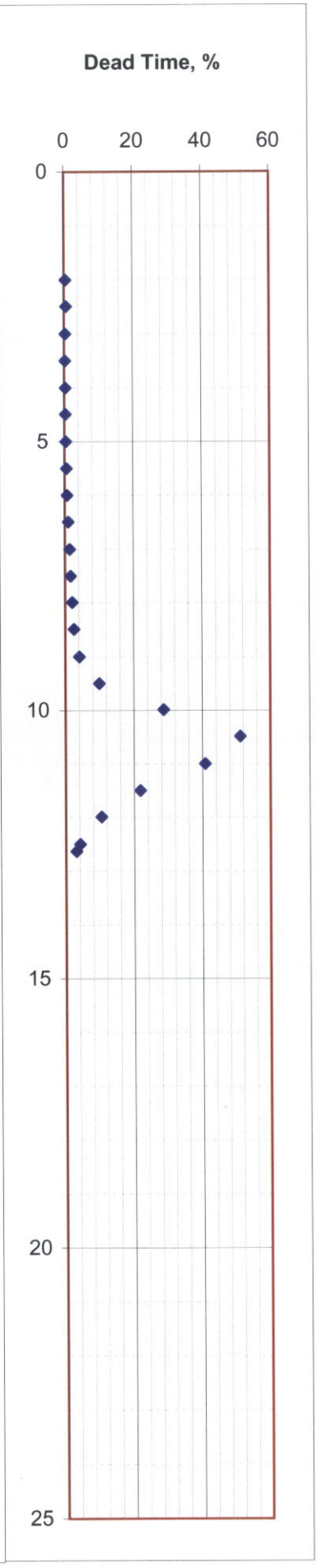

P2-PU-4
Passive Neutron Log
raw cps
0
2
4
6
0
5
10
15
20
25


P2-PU-4
total gamma
cps
total gamma
dead time
percent
dead time
manmade radionuclides
pCi/g
Am241 (0662)
U235 (0186)
U238p (1001)
Pu239 (0375)
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

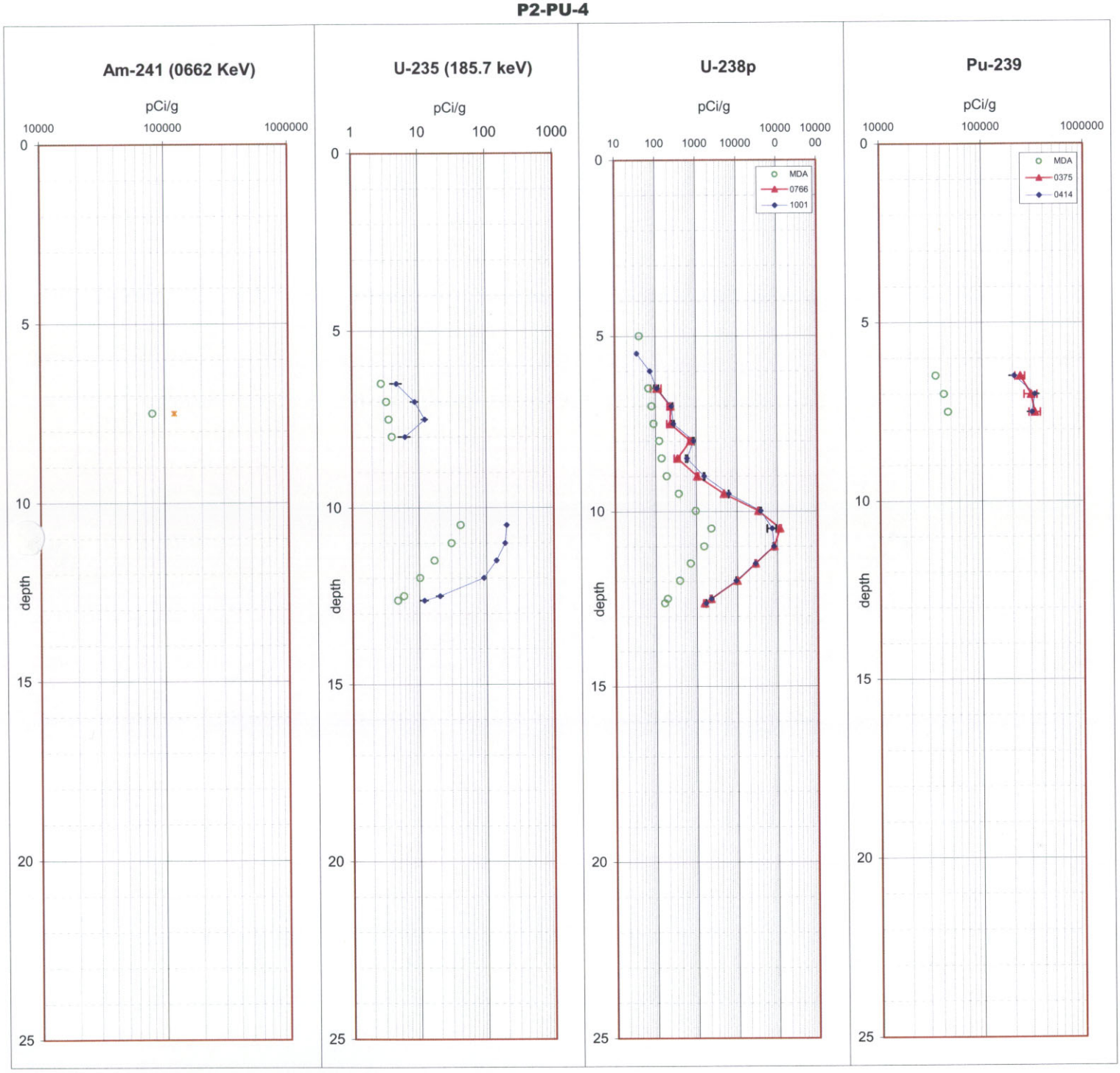
P2-PU-4


Gross Gamma, cps
0
20000
40000
60000
80000
100000
depth, ft
0
5
10
15
20
25

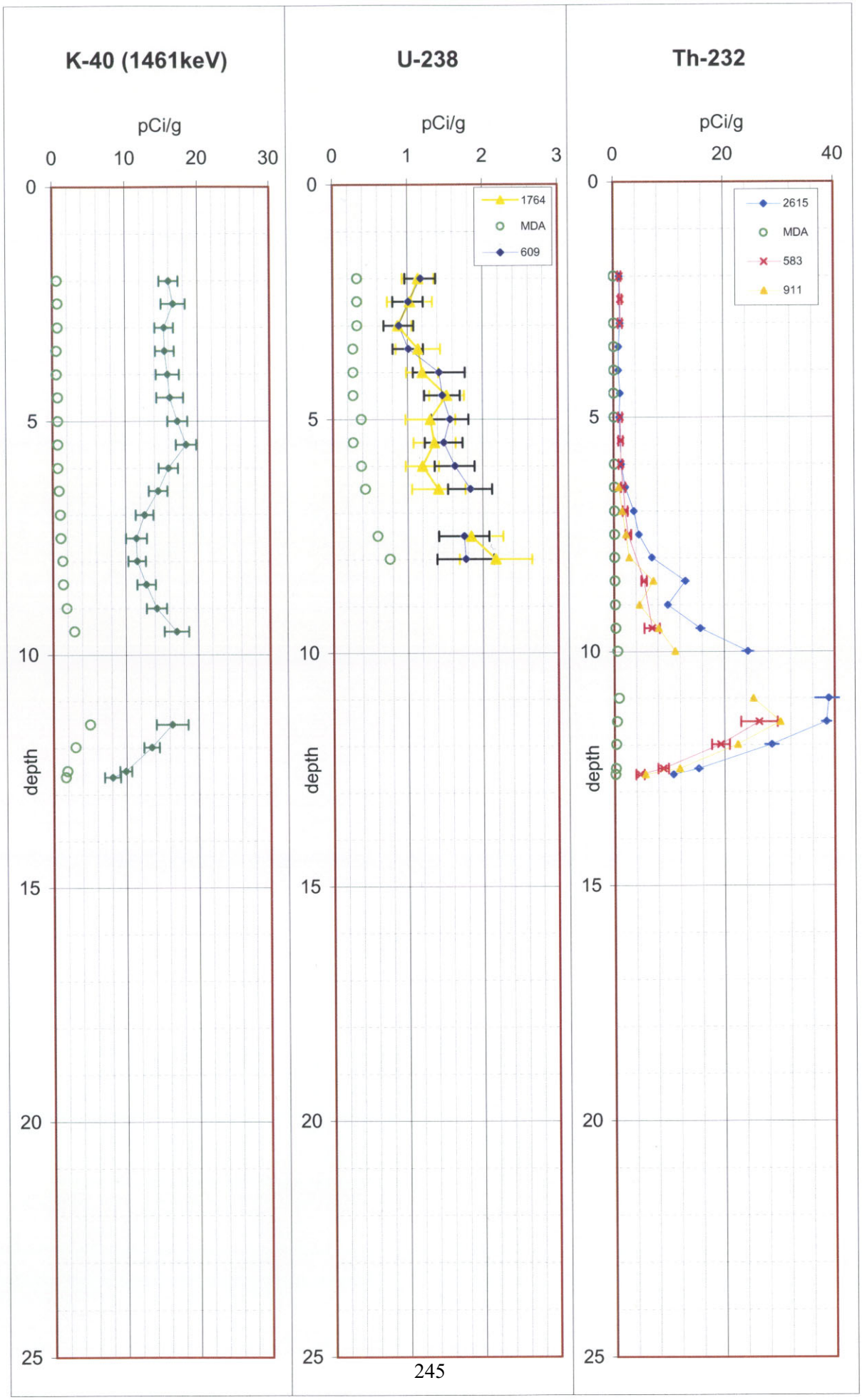

Gross Gamma, cps
1
100
10000
1000000
depth, ft
0
5
10
15
20
25


Dead Time, %
0
20
40
60
0
5
10
15
20
25

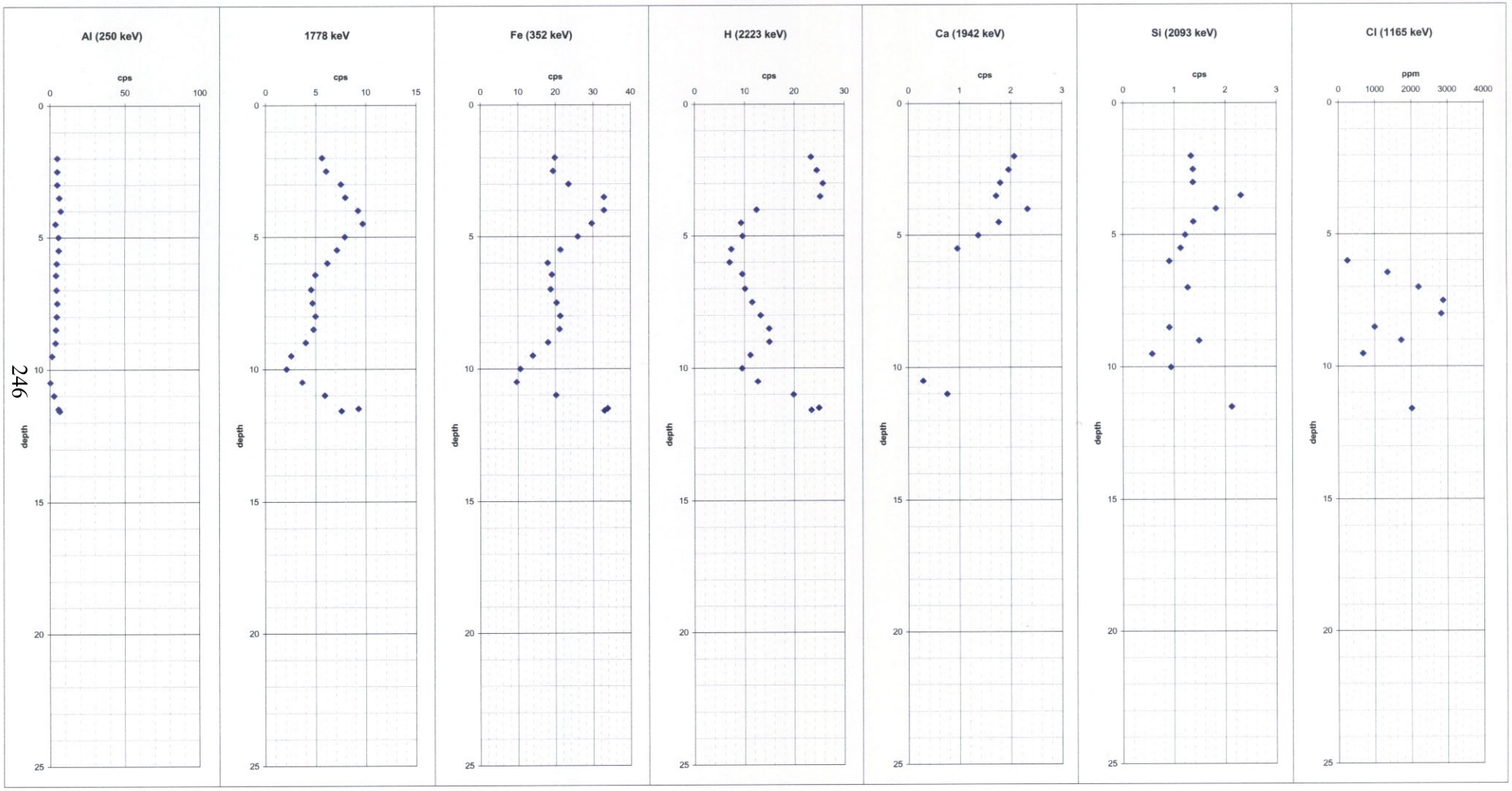
P2-PU-4

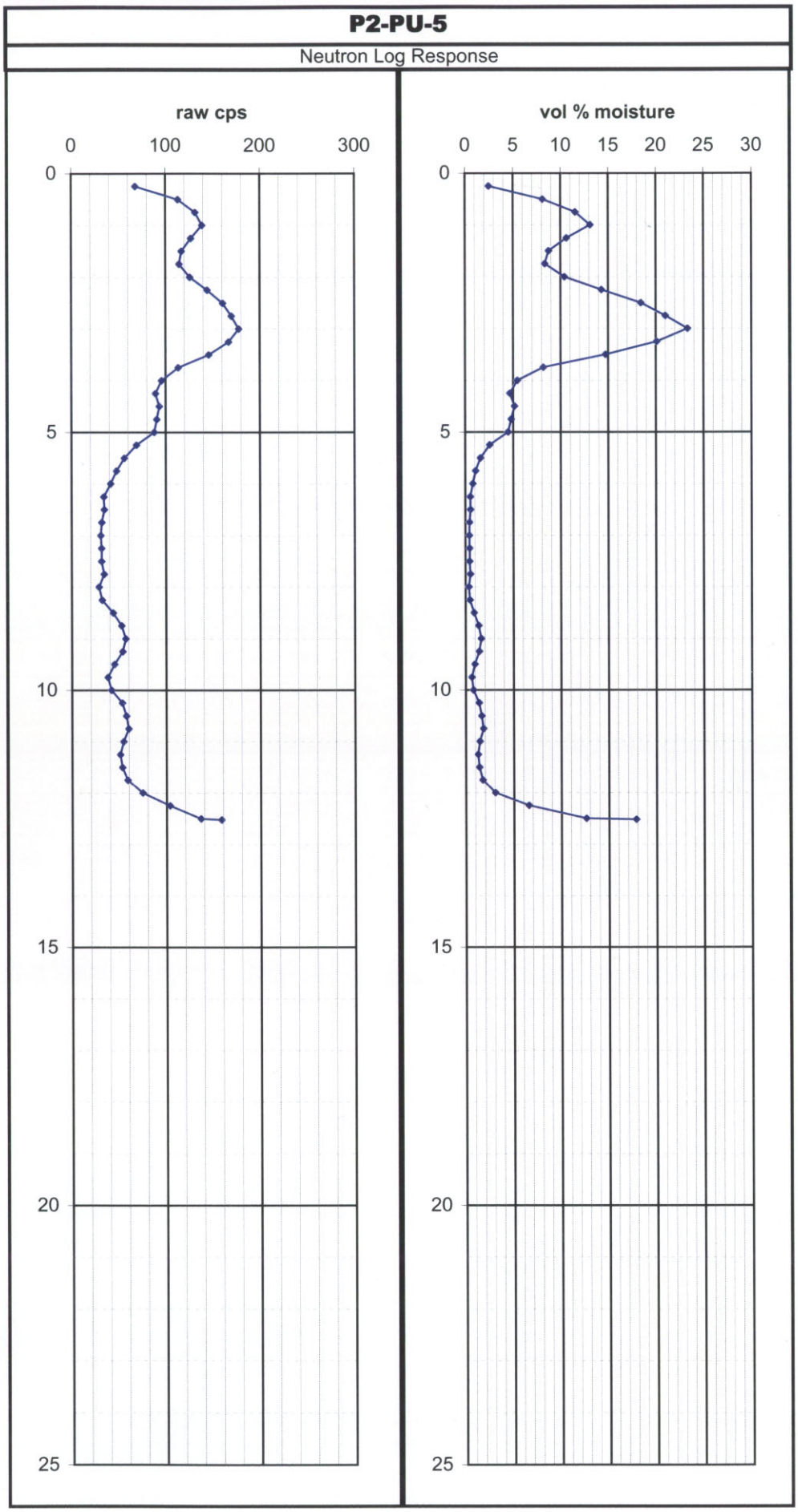

Am-241 (0662 KeV)
pCi/g
10000
100000
1000000
U-235 (185.7 keV)
pCi/g
1
10
100
1000
U-238p
pCi/g
10
100
1000
10000
10000
0
10000
00
MDA
0766
1001
Pu-239
pCi/g
10000
100000
1000000
MDA
0375
0414
depth
0
5
10
15
20
25

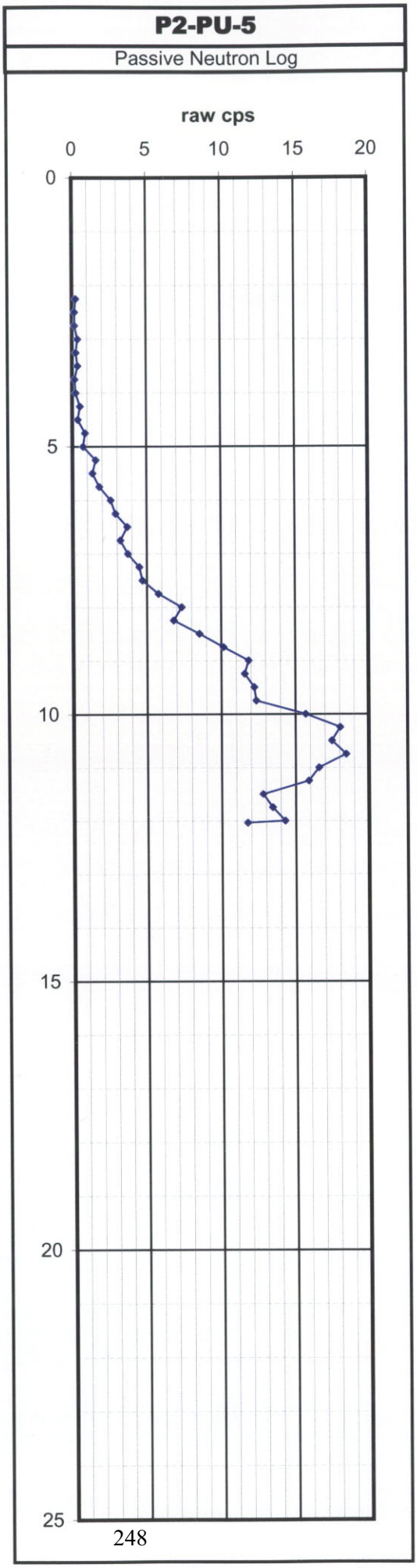
P2-PU-4

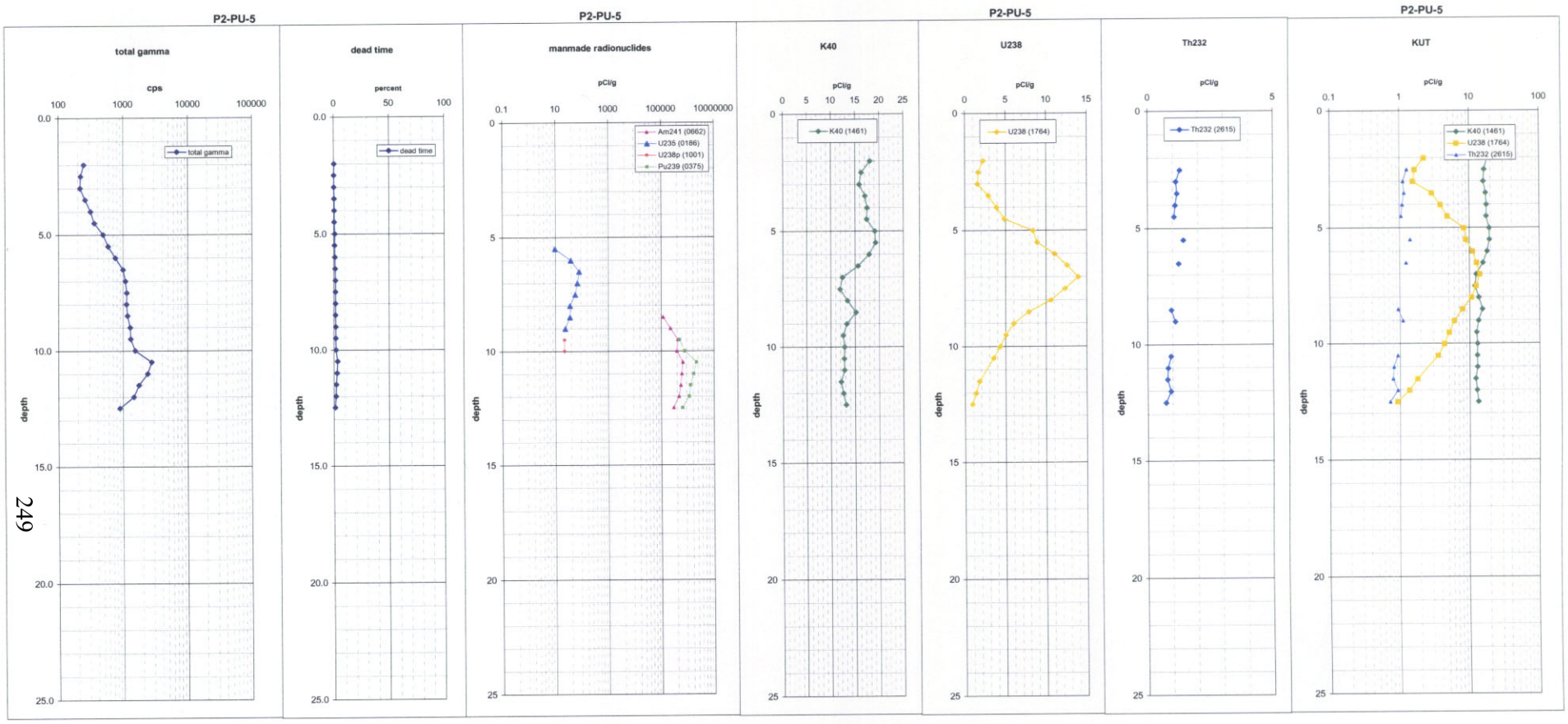

K-40 (1461keV)
pCi/g
0
10
20
30
depth
0
5
10
15
20
25
U-238
pCi/g
0
1
2
3
1764
MDA
609
Th-232
pCi/g
0
20
40
2615
MDA
583
911

P2-PU-4

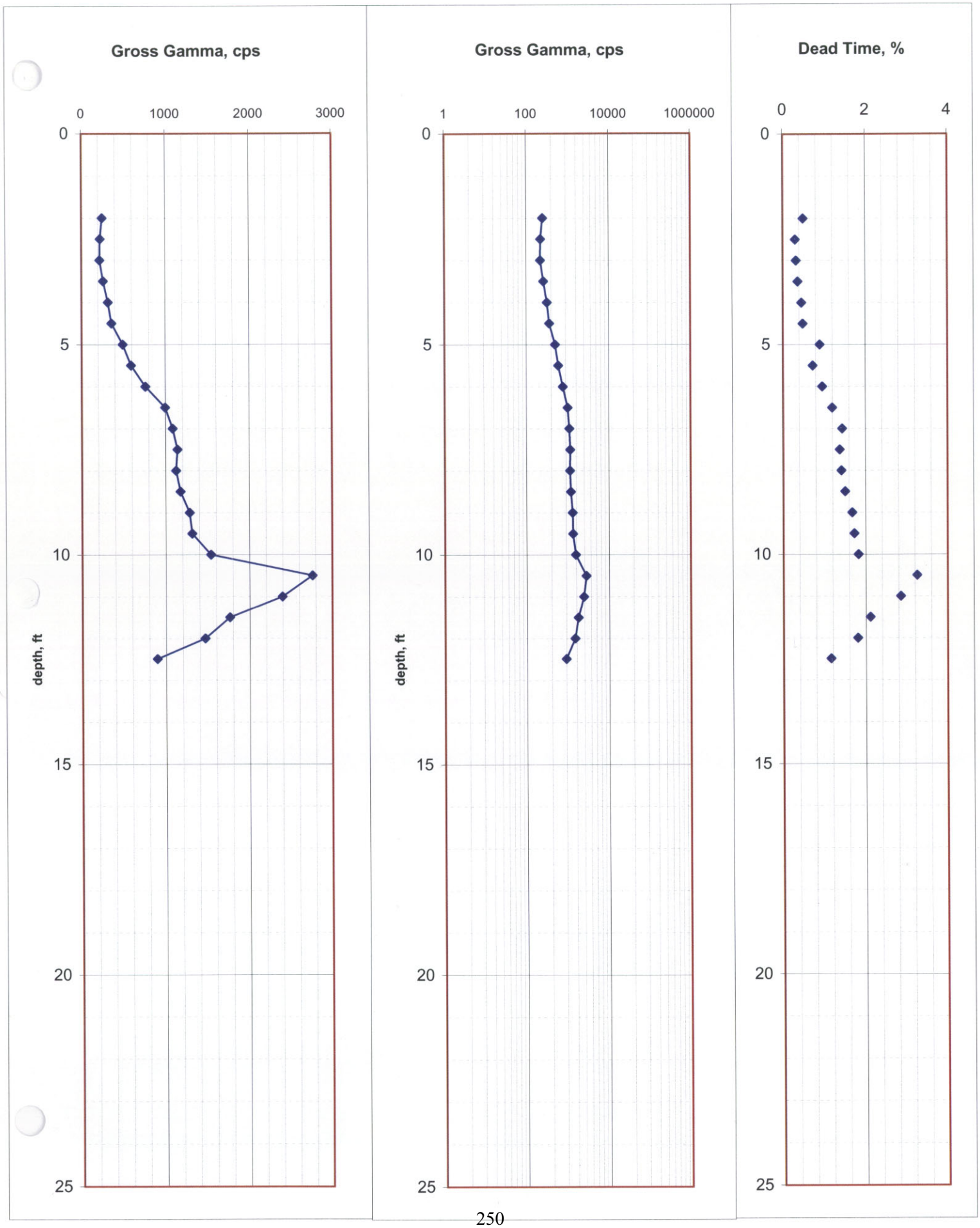

Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth


P2-PU-5
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
0
5
10
15
20
25

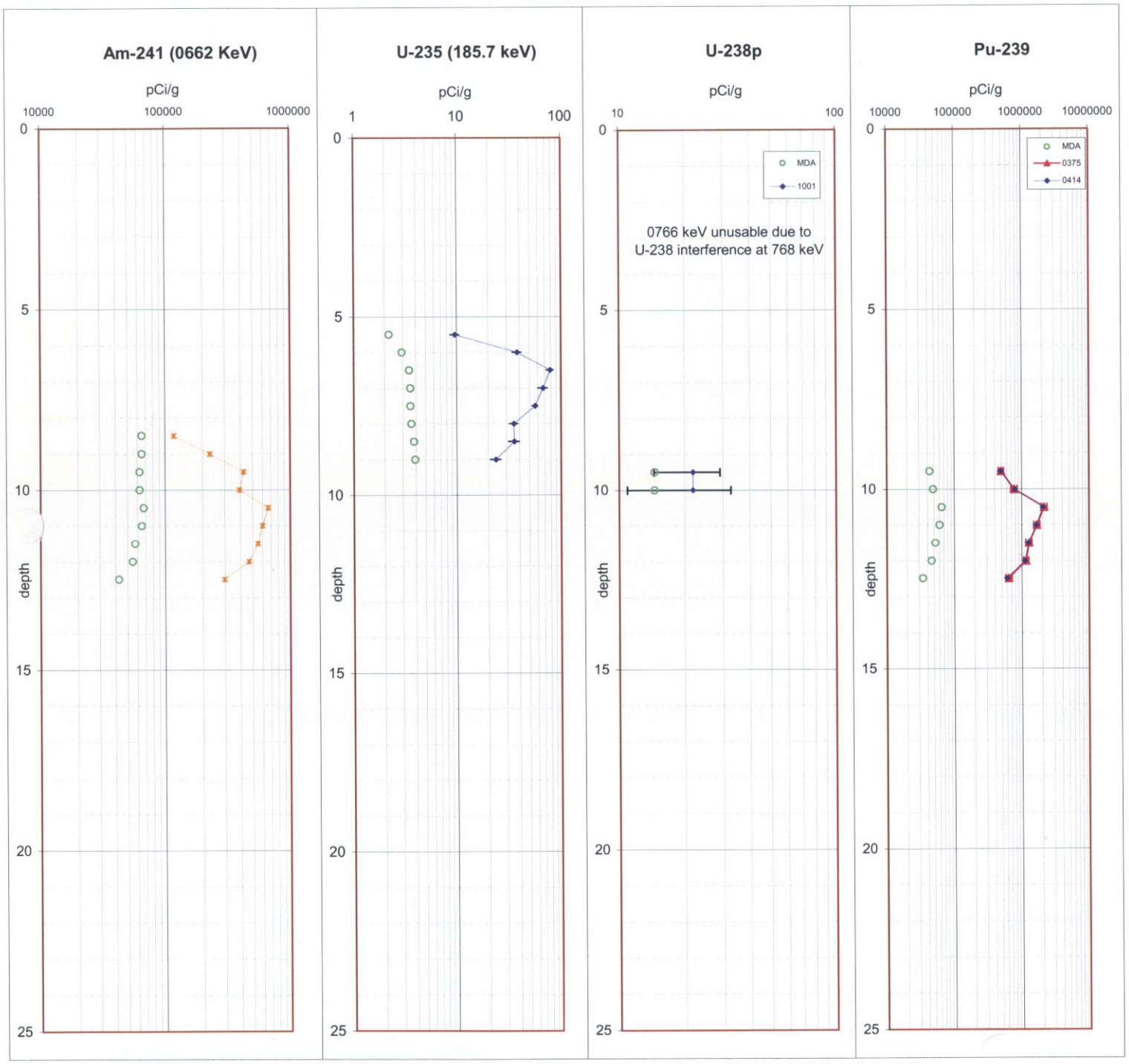

P2-PU-5
Passive Neutron Log
raw cps
0
5
10
15
20
0
5
10
15
20
25


P2-PU-5
total gamma
cps
total gamma
dead time
percent
dead time
manmade radionuclides
pCi/g
Am241 (0662)
U235 (0186)
U238p (1001)
Pu239 (0375)
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

P2-PU-5


Gross Gamma, cps
0
1000
2000
3000
depth, ft
0
5
10
15
20
25
Gross Gamma, cps
1
100
10000
1000000
depth, ft
0
5
10
15
20
25
Dead Time, %
0
2
4
0
5
10
15
20
25

P2-PU-5


Am-241 (0662 KeV)
pCi/g
10000
100000
1000000
U-235 (185.7 keV)
pCi/g
1
10
100
U-238p
pCi/g
10
100
MDA
1001
0766 keV unusable due to
U-238 interference at 768 keV
Pu-239
pCi/g
10000
100000
1000000
10000000
MDA
0375
0414
depth
0
5
10
15
20
25