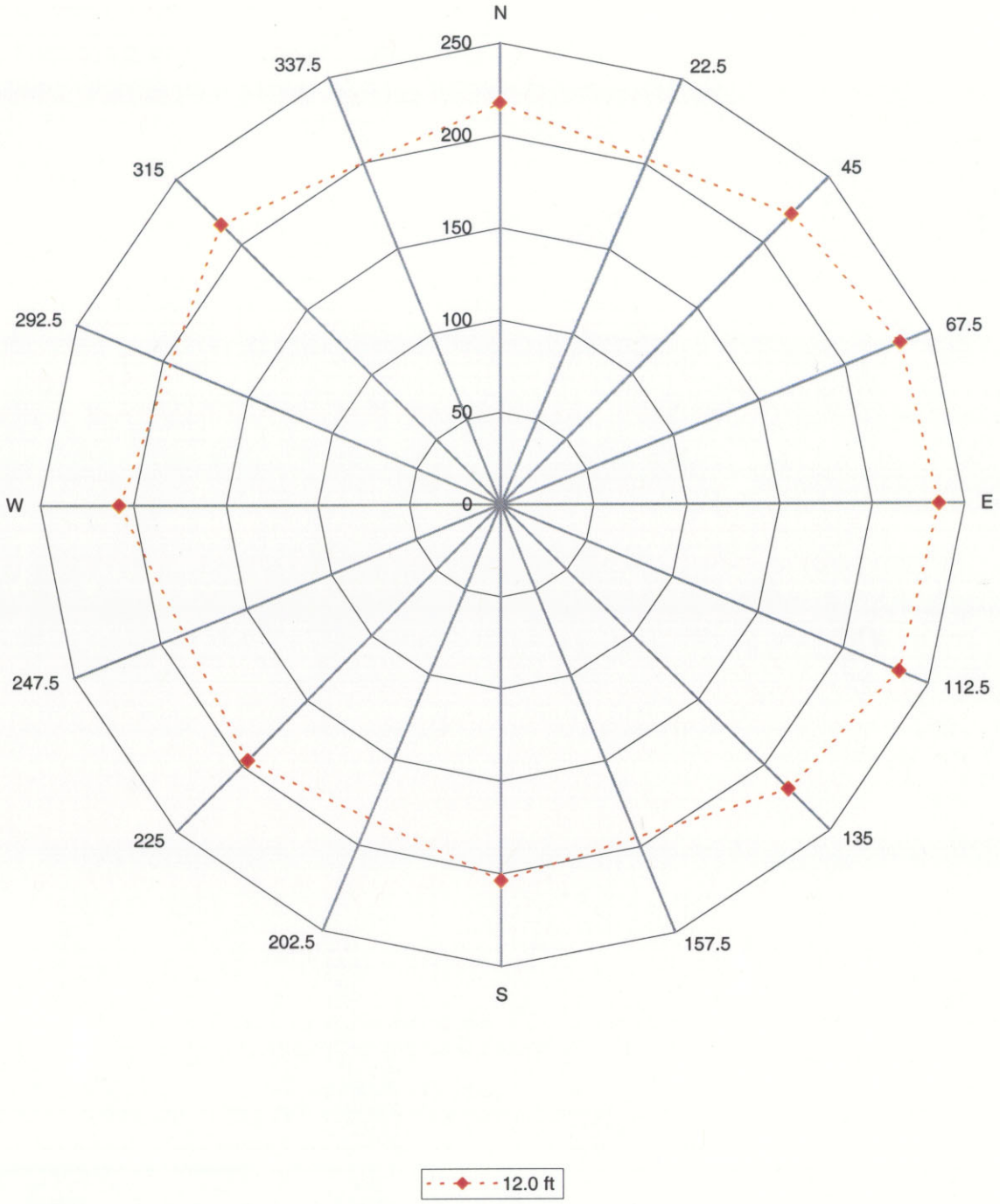
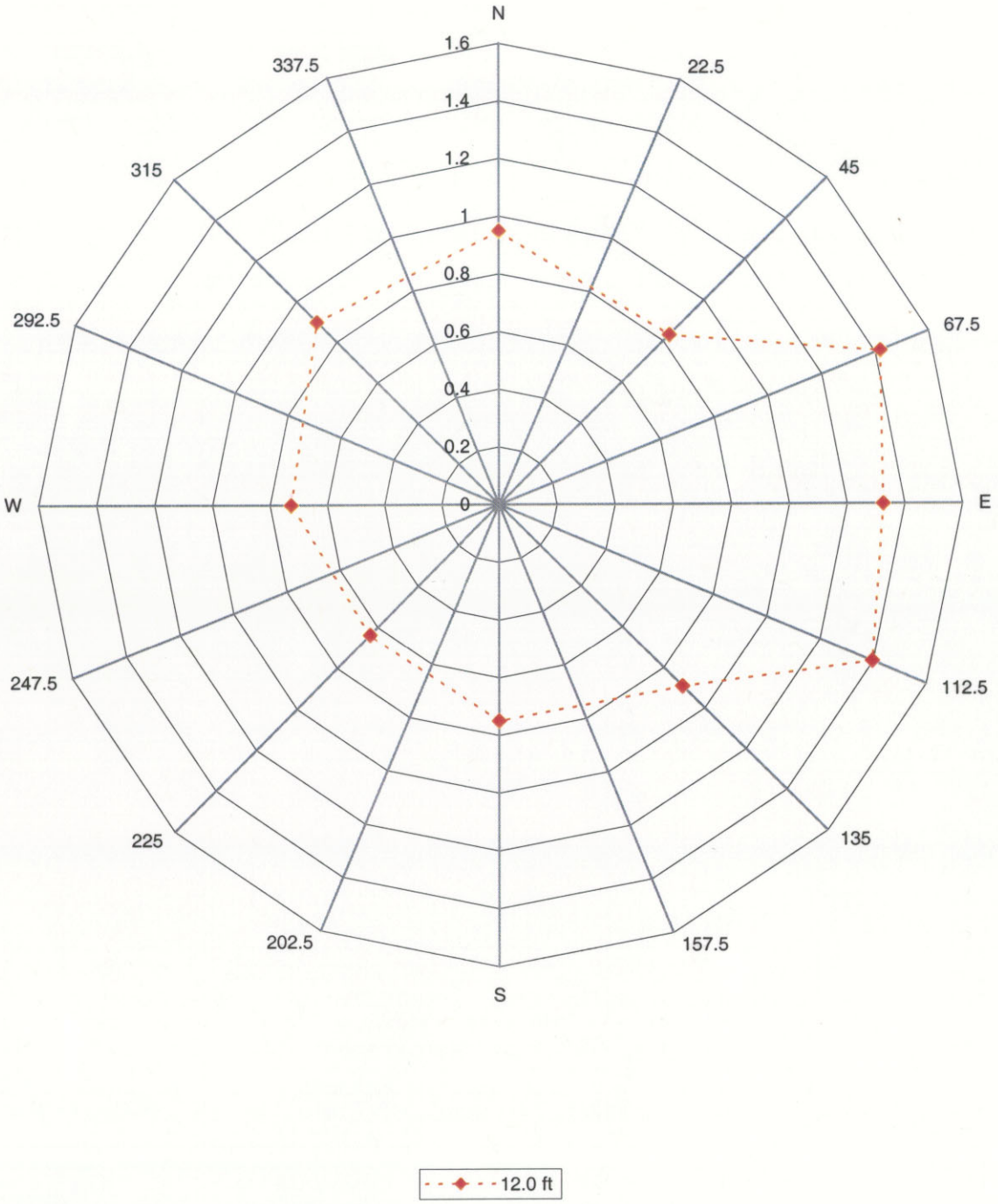
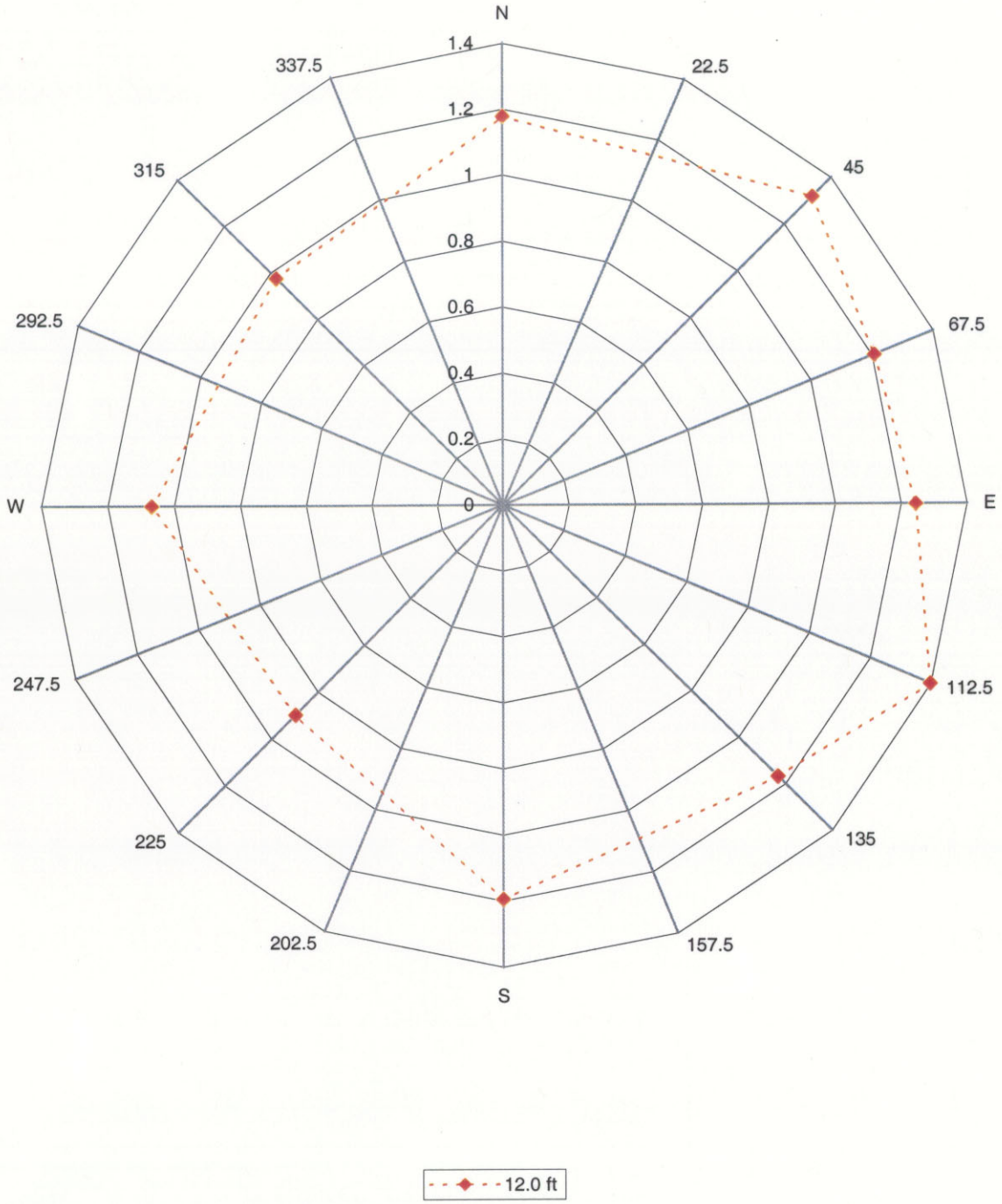
HAL 4 (Total Gamma)

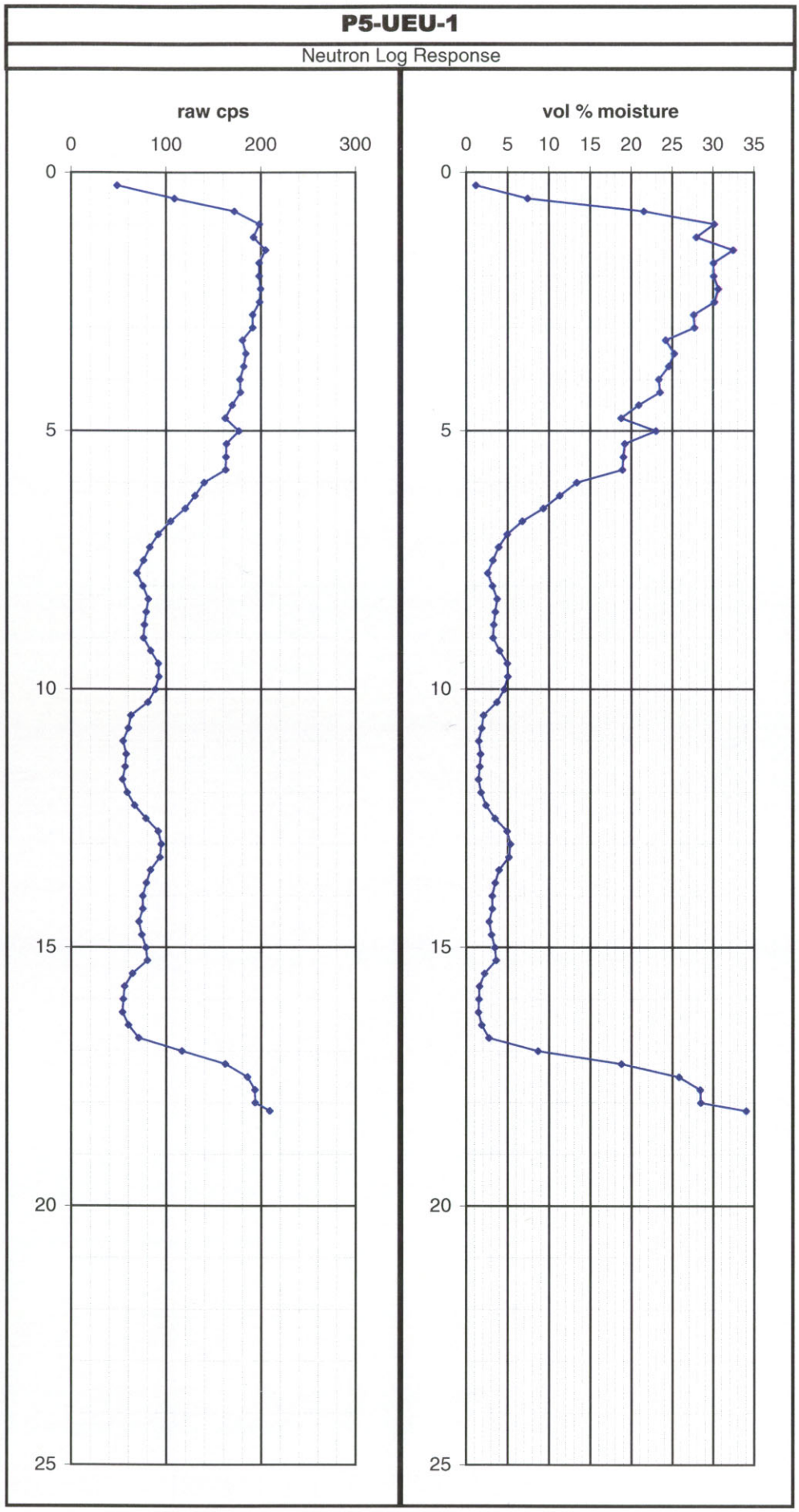


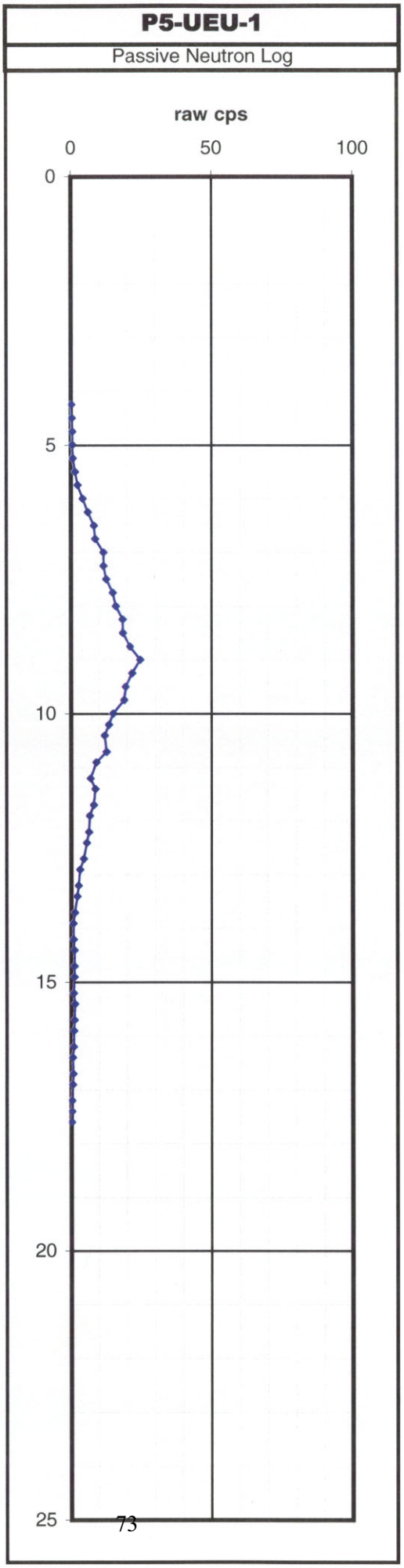
HAL 4 Cs-137 (0662)

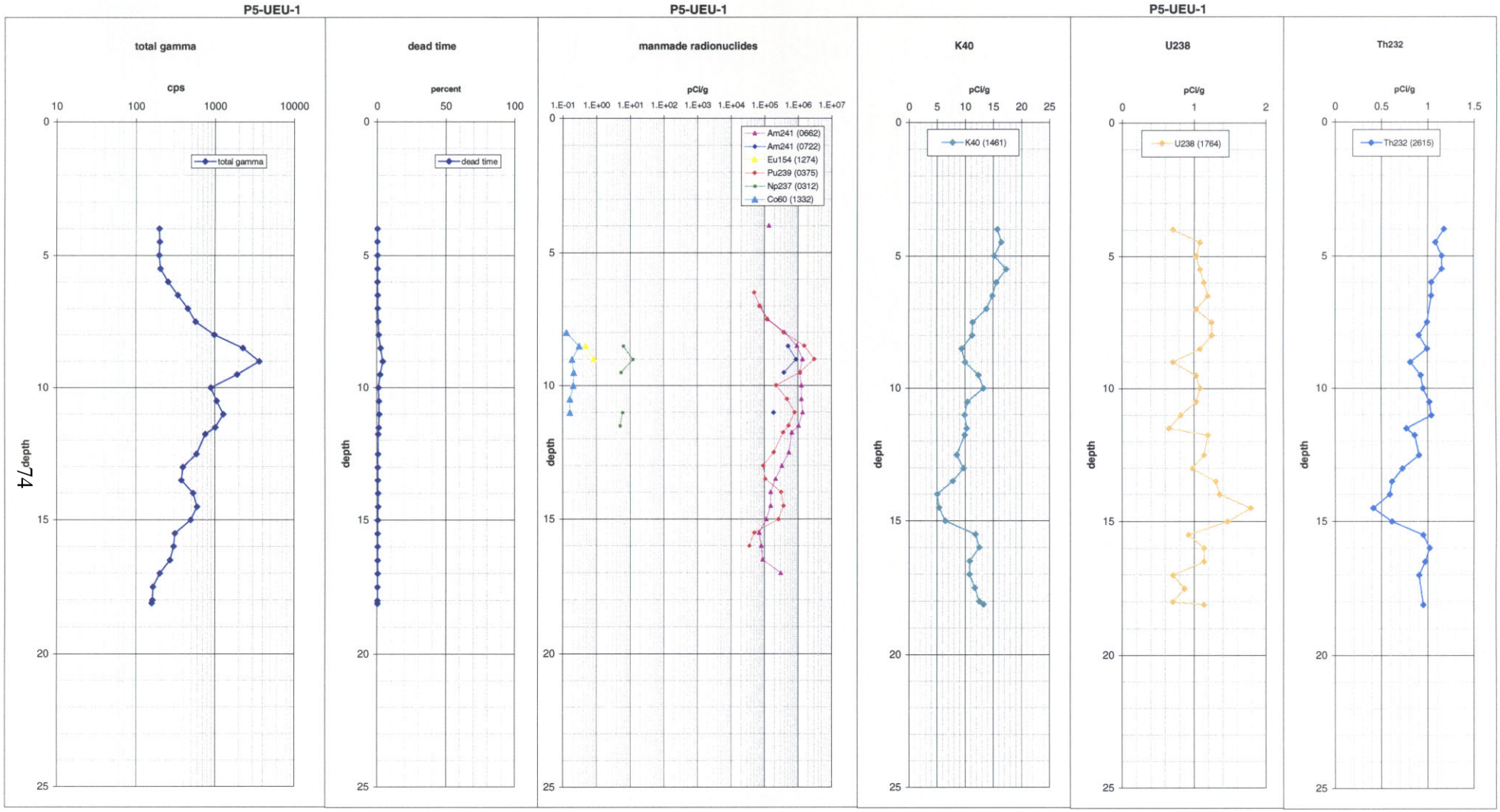


HAL 4 Co-60 (1332)

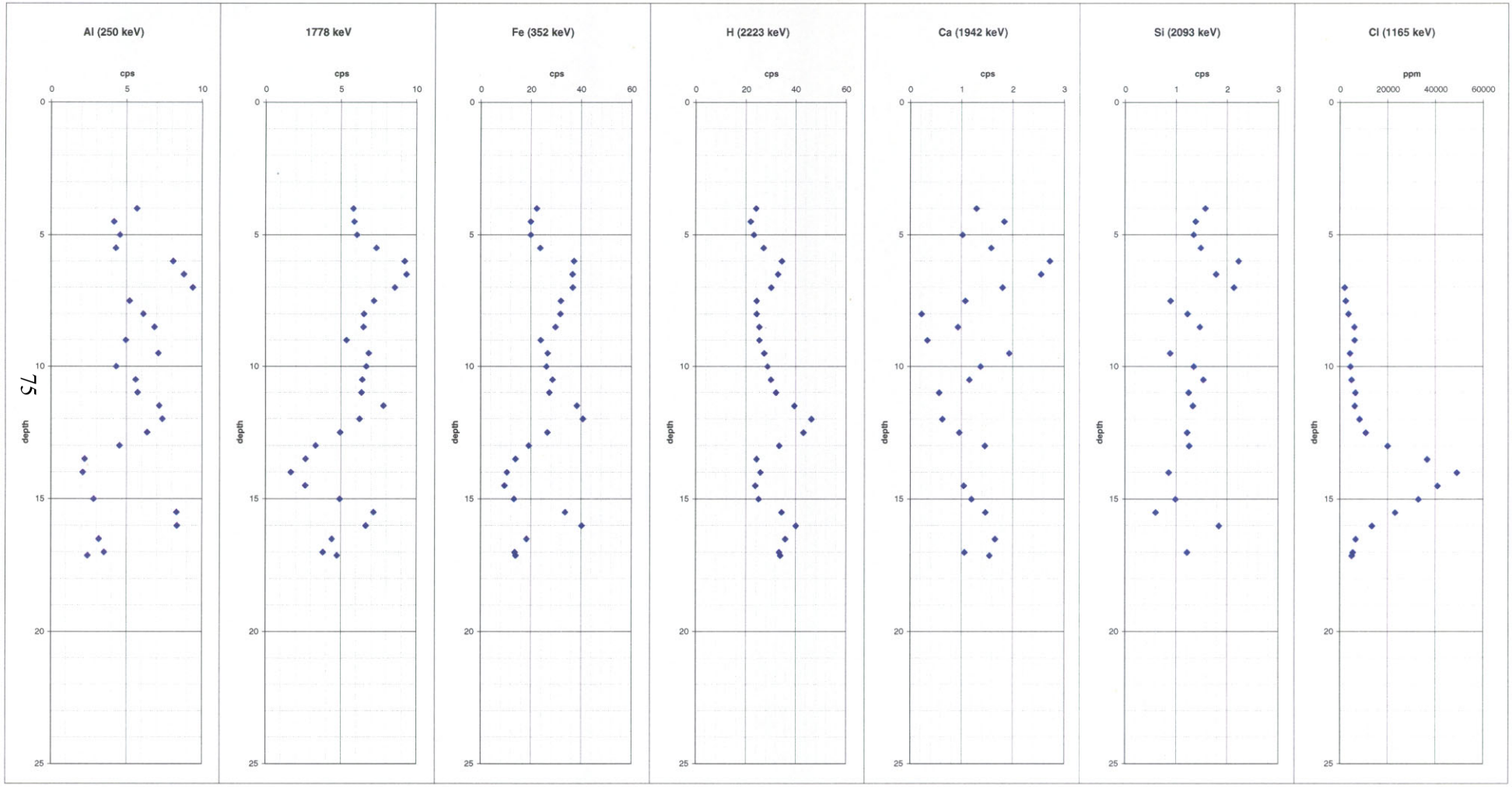



P5-UEU-1
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
35
0
5
10
15
20
25

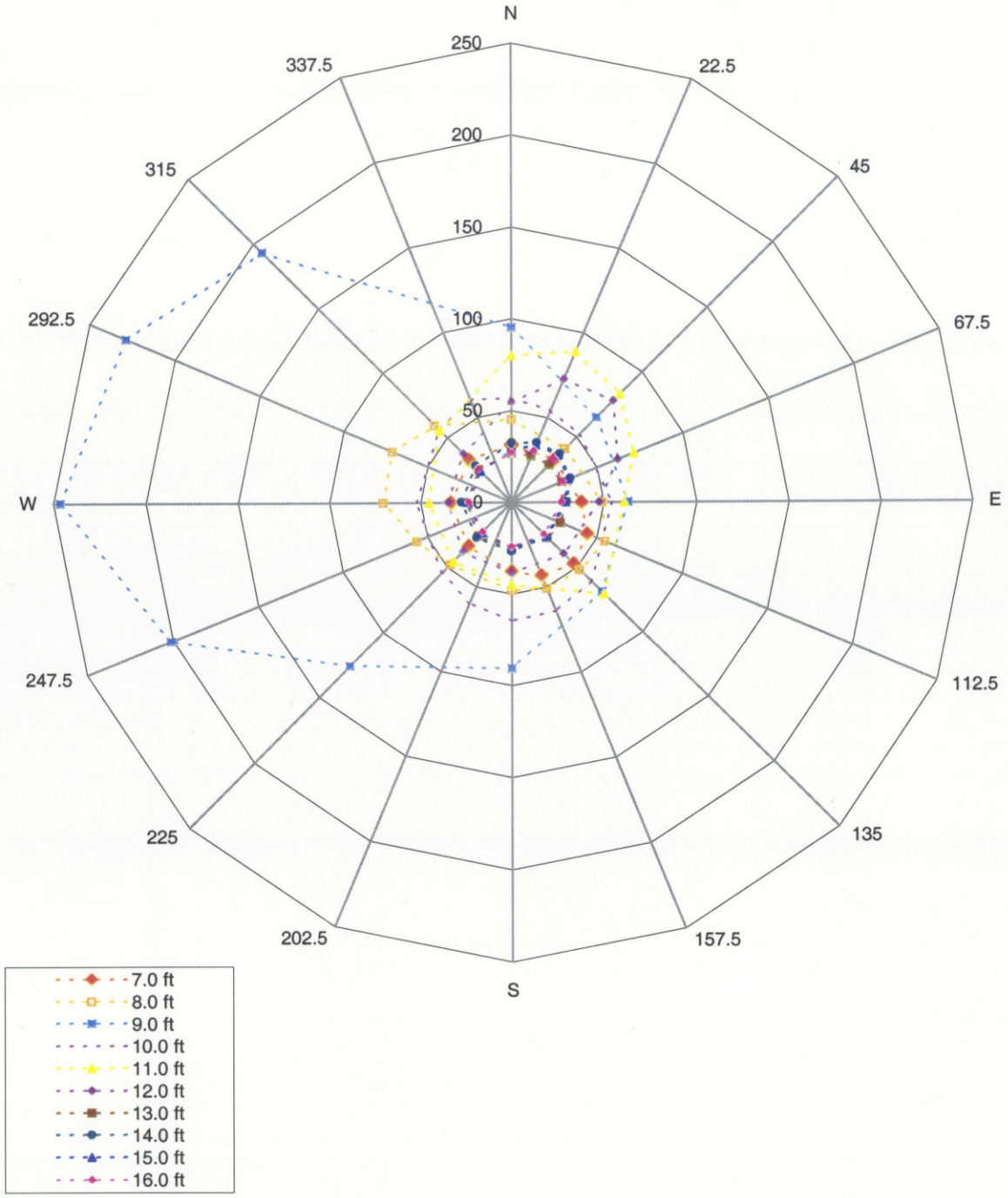

P5-UEU-1
Passive Neutron Log
raw cps
0
50
100
0
5
10
15
20
25


P5-UEU-1
total gamma
cps
10
100
1000
10000
total gamma
depth
0
5
10
15
20
25
P5-UEU-1
dead time
percent
0
50
100
dead time
depth
P5-UEU-1
manmade radionuclides
pCi/g
1.E-01
1.E+00
1.E+01
1.E+02
1.E+03
1.E+04
1.E+05
1.E+06
1.E+07
Am241 (0662)
Am241 (0722)
Eu154 (1274)
Pu239 (0375)
Np237 (0312)
Co60 (1332)
depth
K40
pCi/g
0
5
10
15
20
25
K40 (1461)
depth
U238
pCi/g
0
1
2
U238 (1764)
depth
Th232
pCi/g
0
0.5
1
1.5
Th232 (2615)
depth

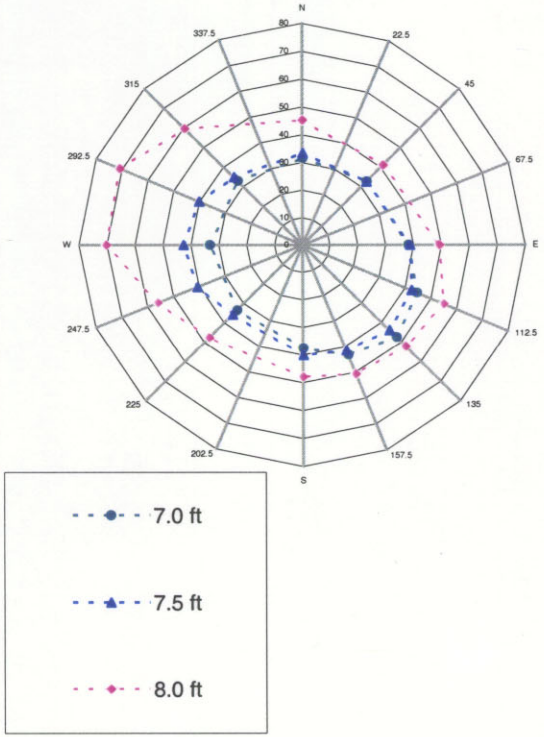
P5-UEU-1


Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth
0
5
10
15
20
25
20
40
60
1
2
3
20000
40000
60000

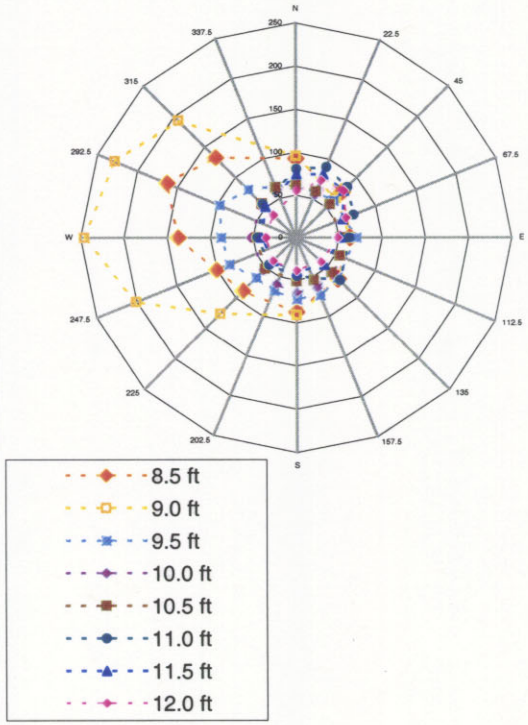
P5-UEU-1 Total Gamma (7.0 ft to 16.0 ft)



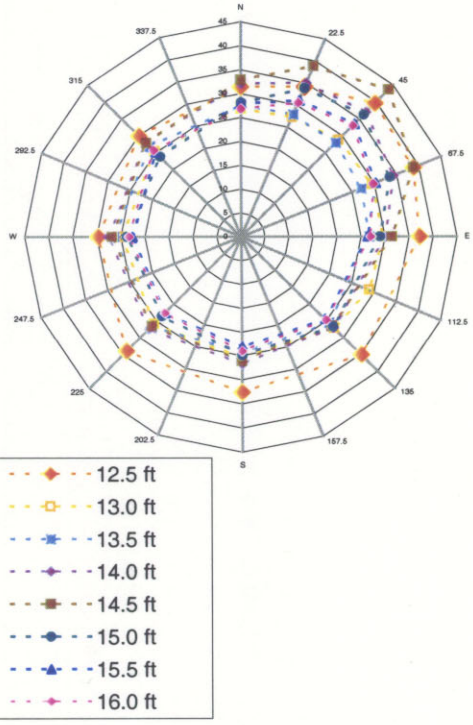
P5-UEU-1 Total Gamma (7.0 ft to 8.0 ft)



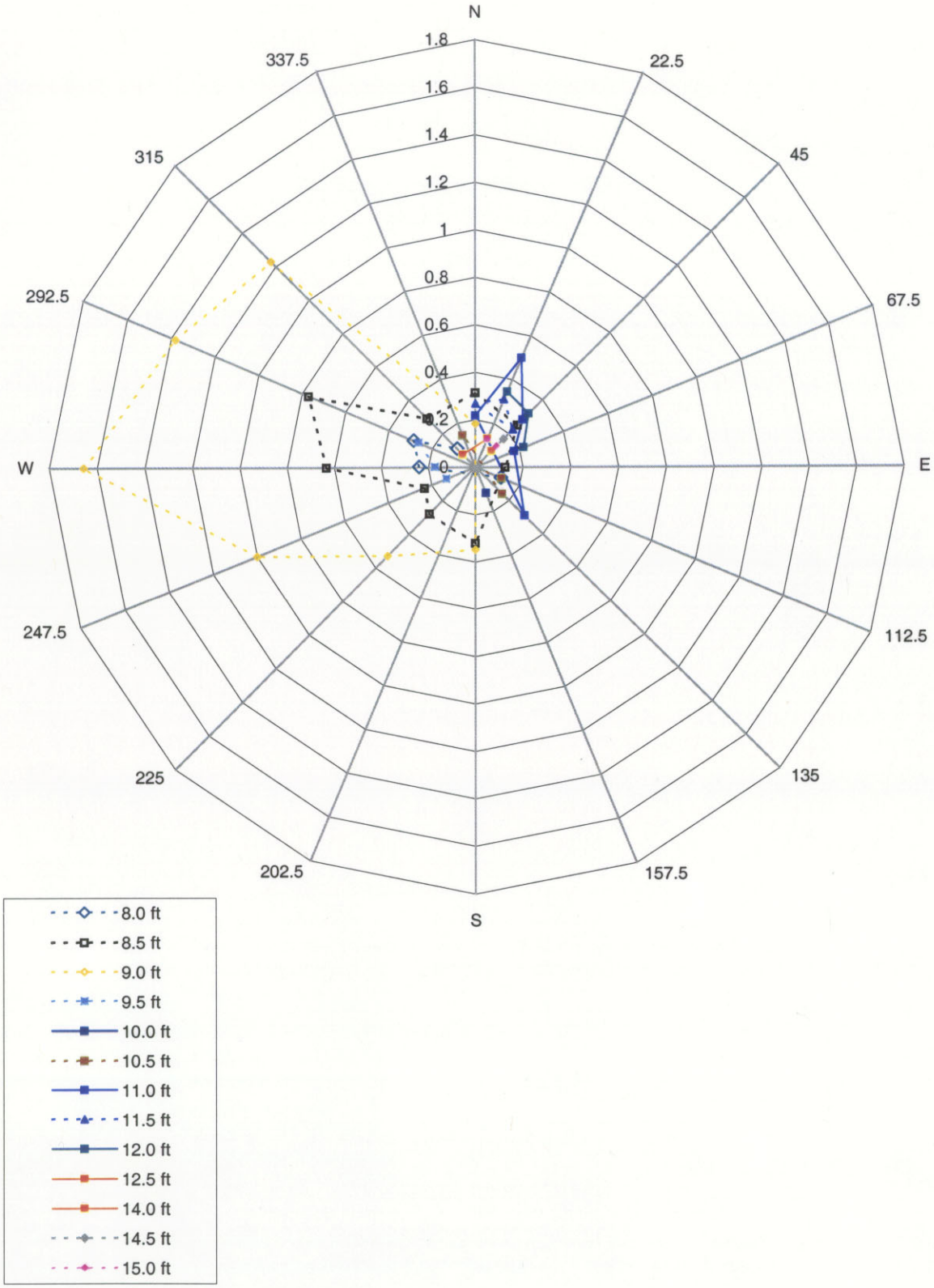
P5-UEU-1 Total Gamma (8.5 ft to 12.0 ft)



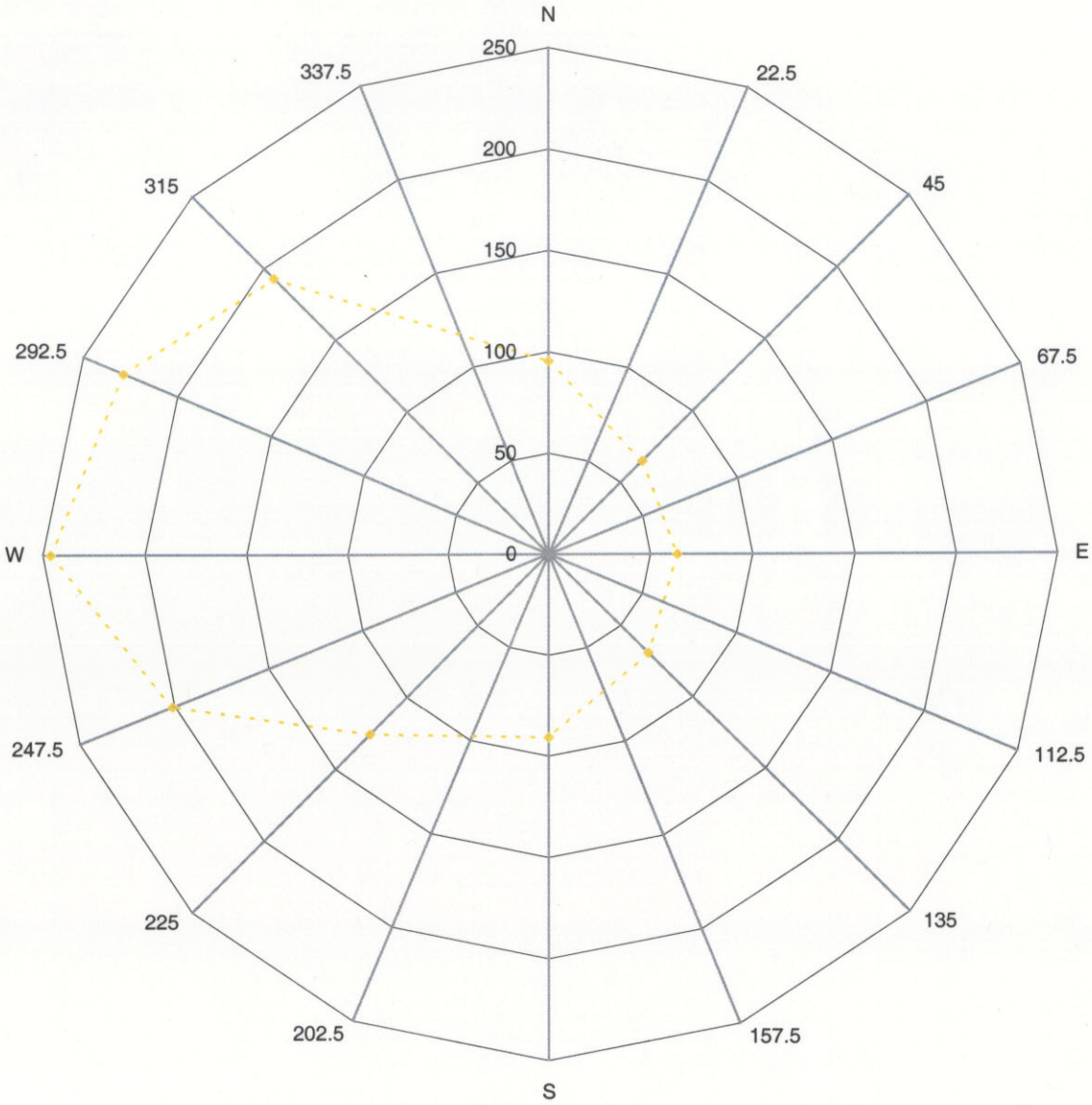
P5-UEU-1 Total Gamma (12.5 ft to 16.0 ft)

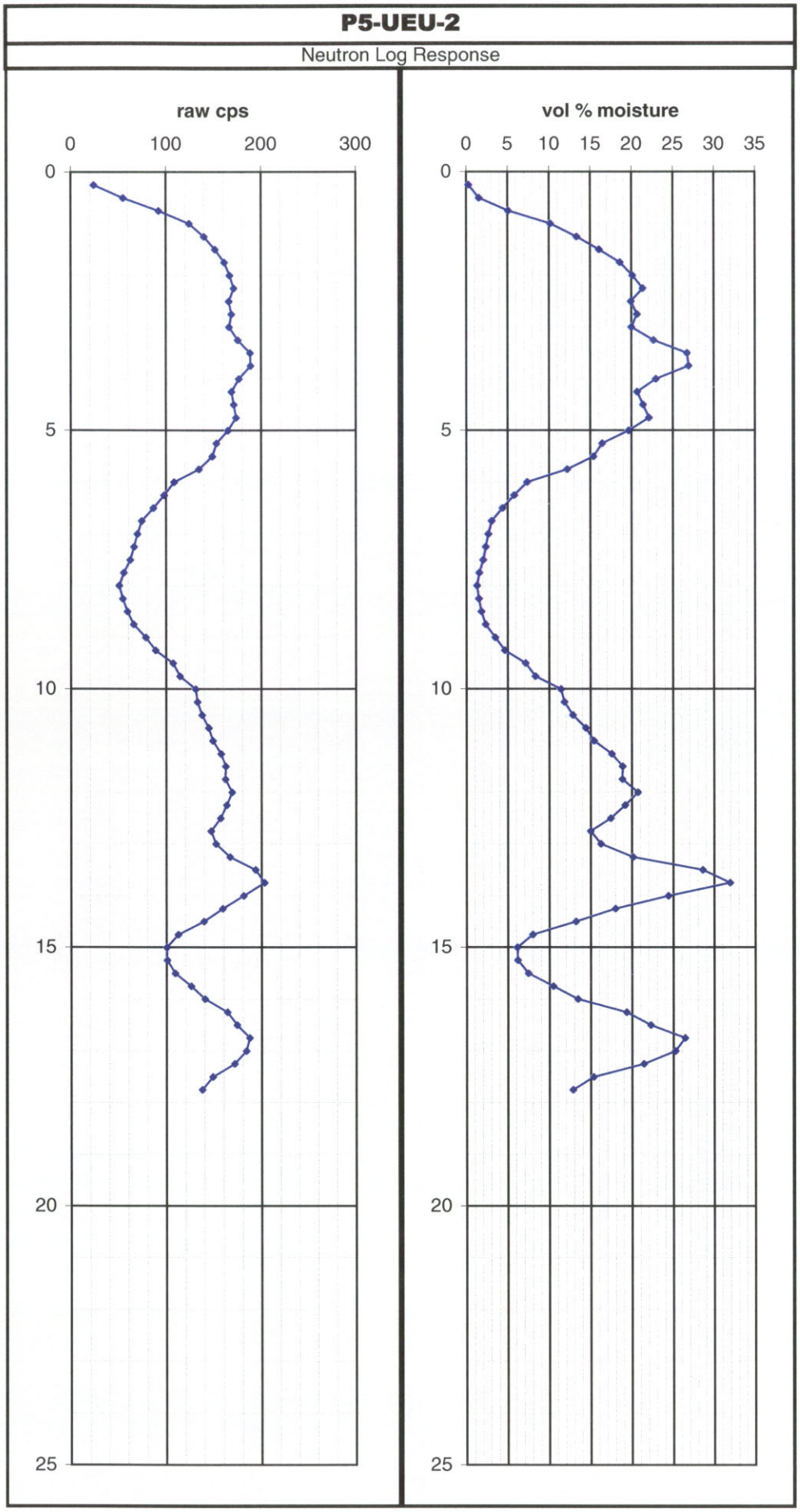


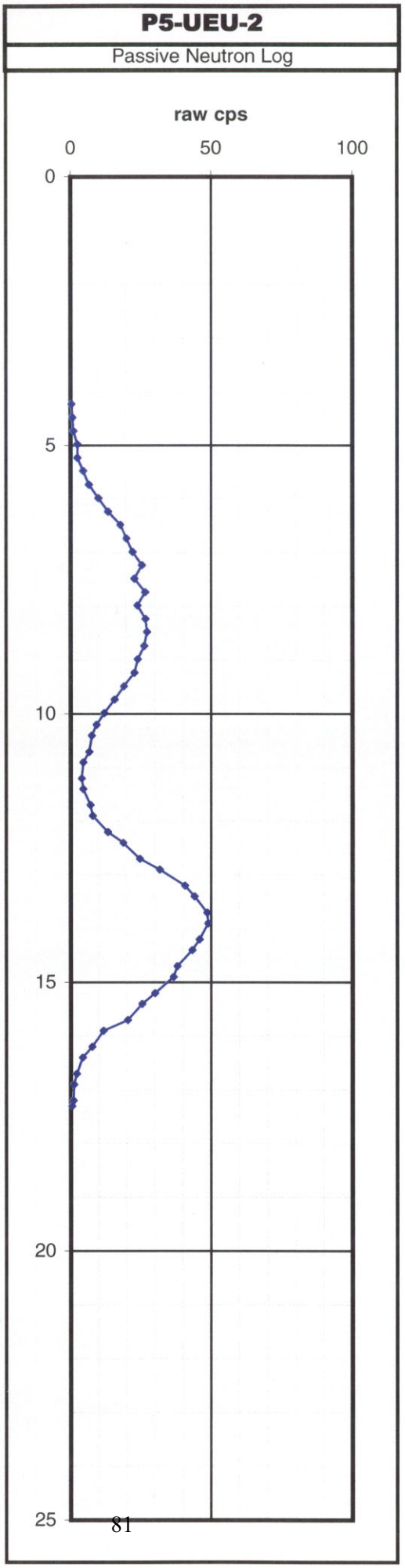
P5-UEU-1 Pu-239 (375 keV - 8.0 ft to 15.0 ft)



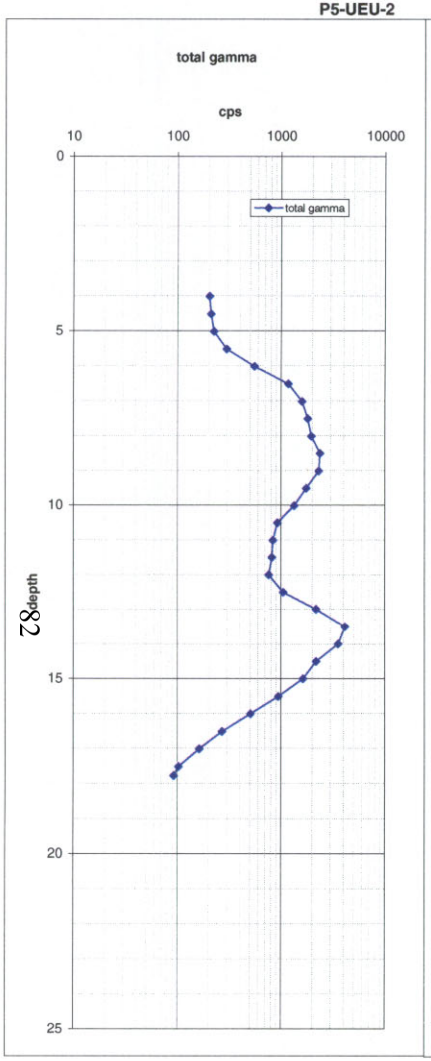
P5-UEU-1 Am-241 (662 keV - 9.0 ft)

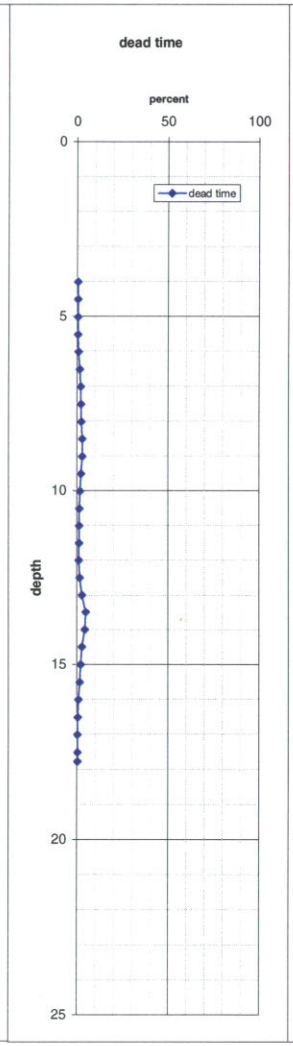



P5-UEU-2
Neutron Log Response
raw cps
0
100
200
300
0
5
10
15
20
25
vol % moisture
0
5
10
15
20
25
30
35
0
5
10
15
20
25

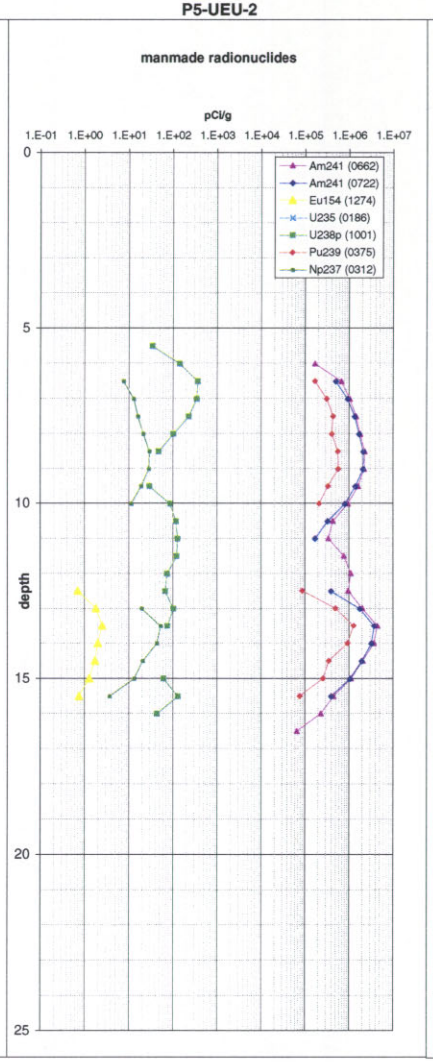

P5-UEU-2
Passive Neutron Log
raw cps
0
50
100
0
5
10
15
20
25

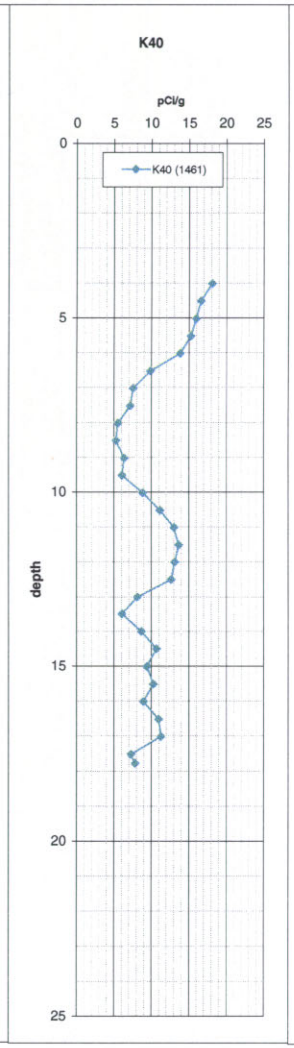
P5-UEU-2



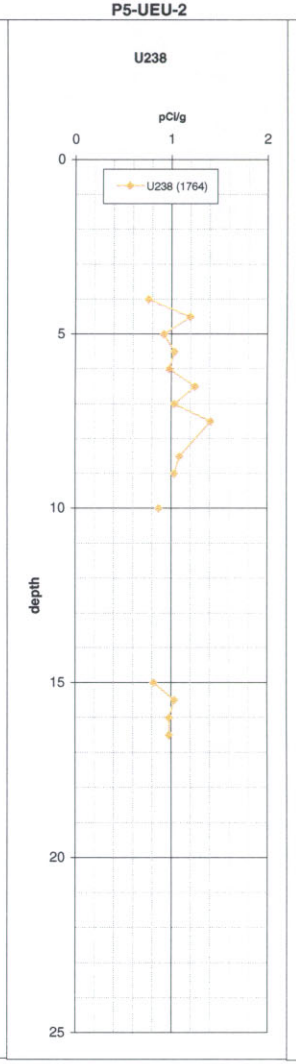


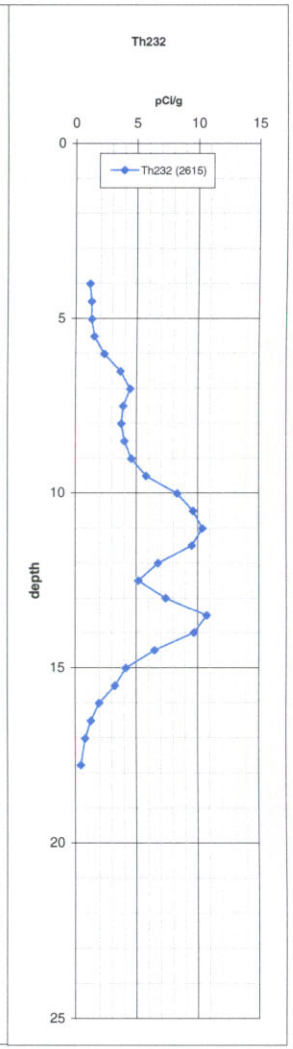
P5-UEU-2



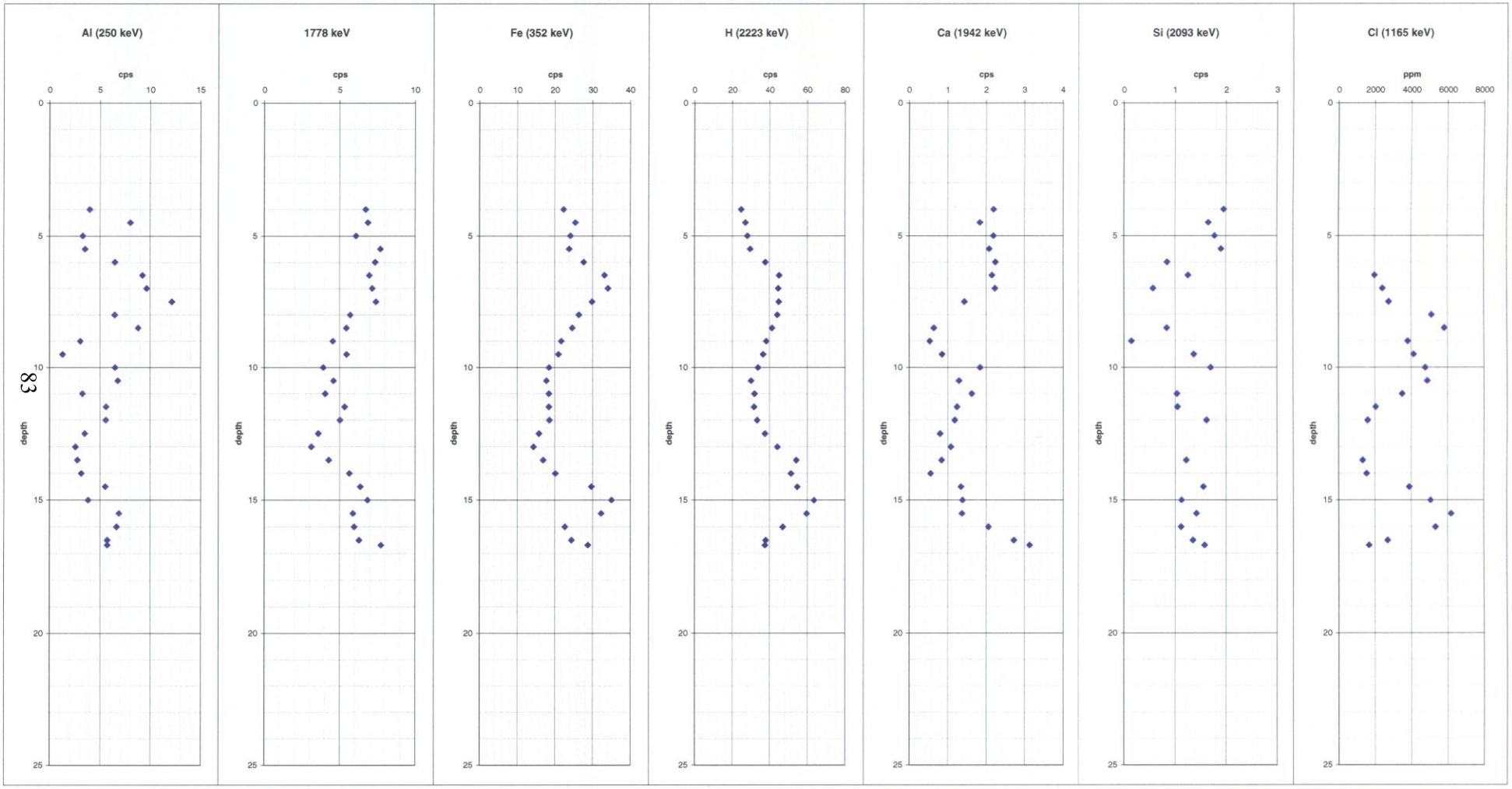


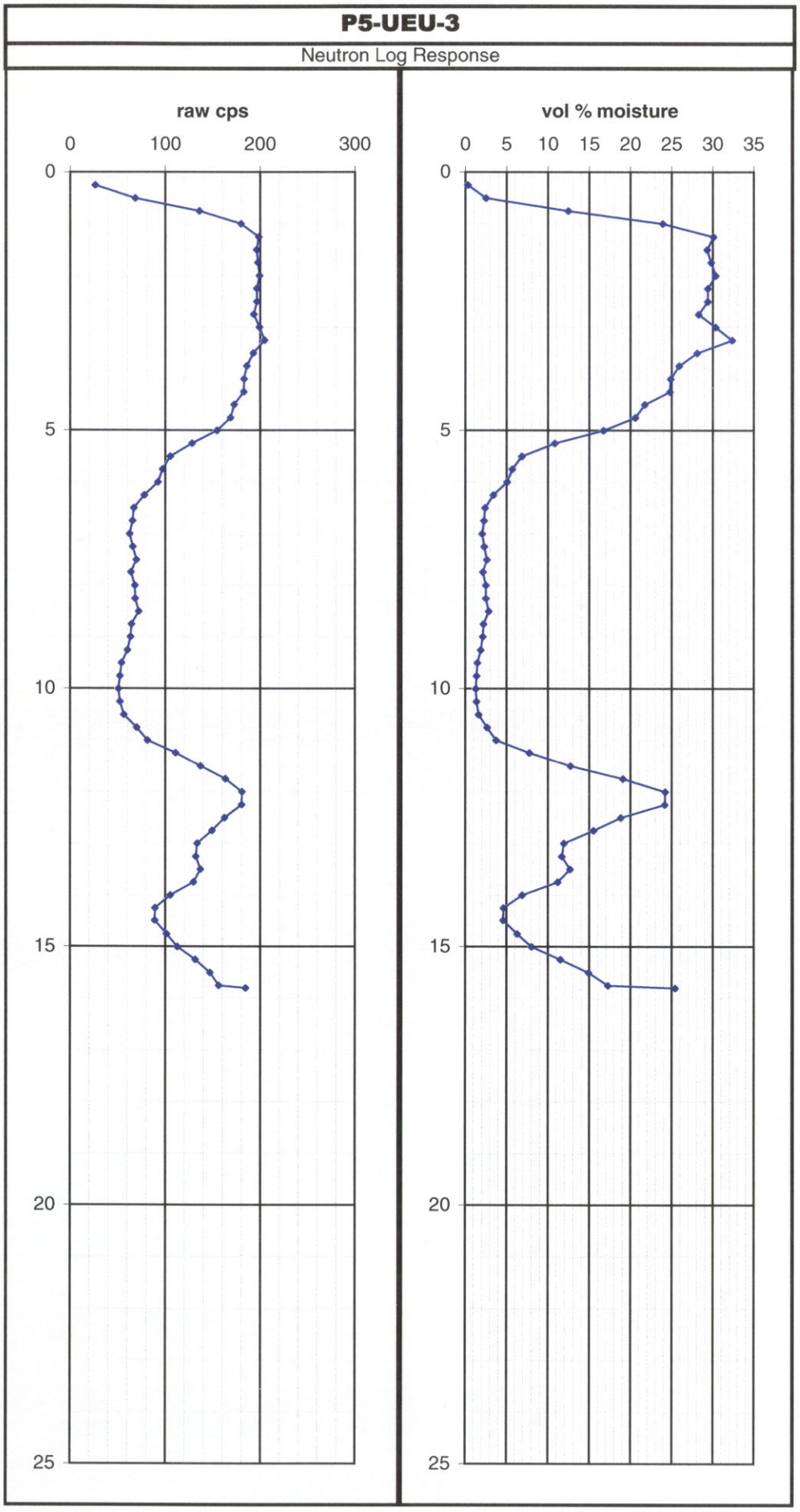
P5-UEU-2

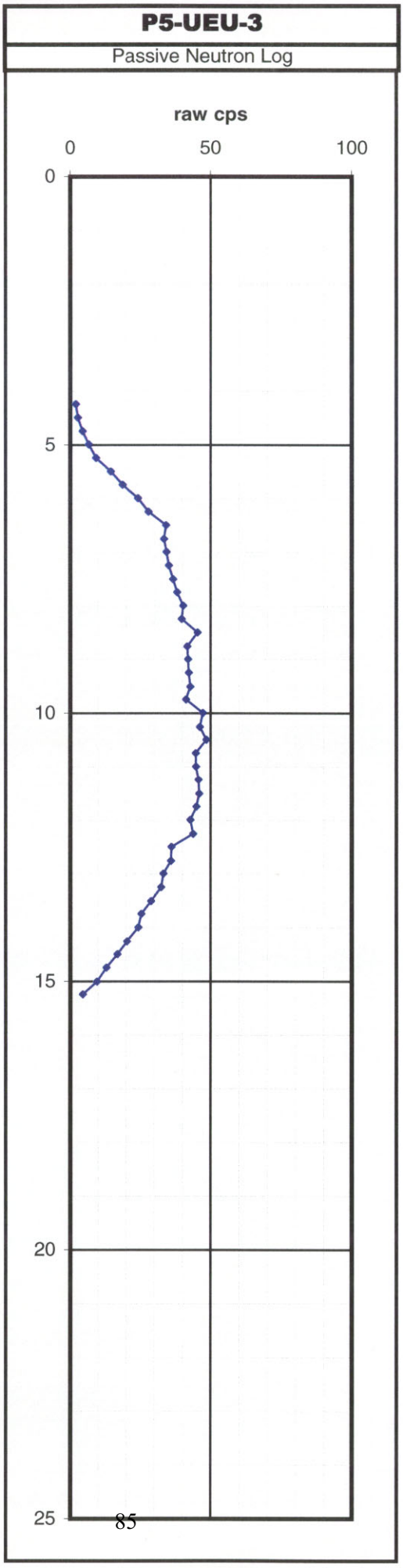


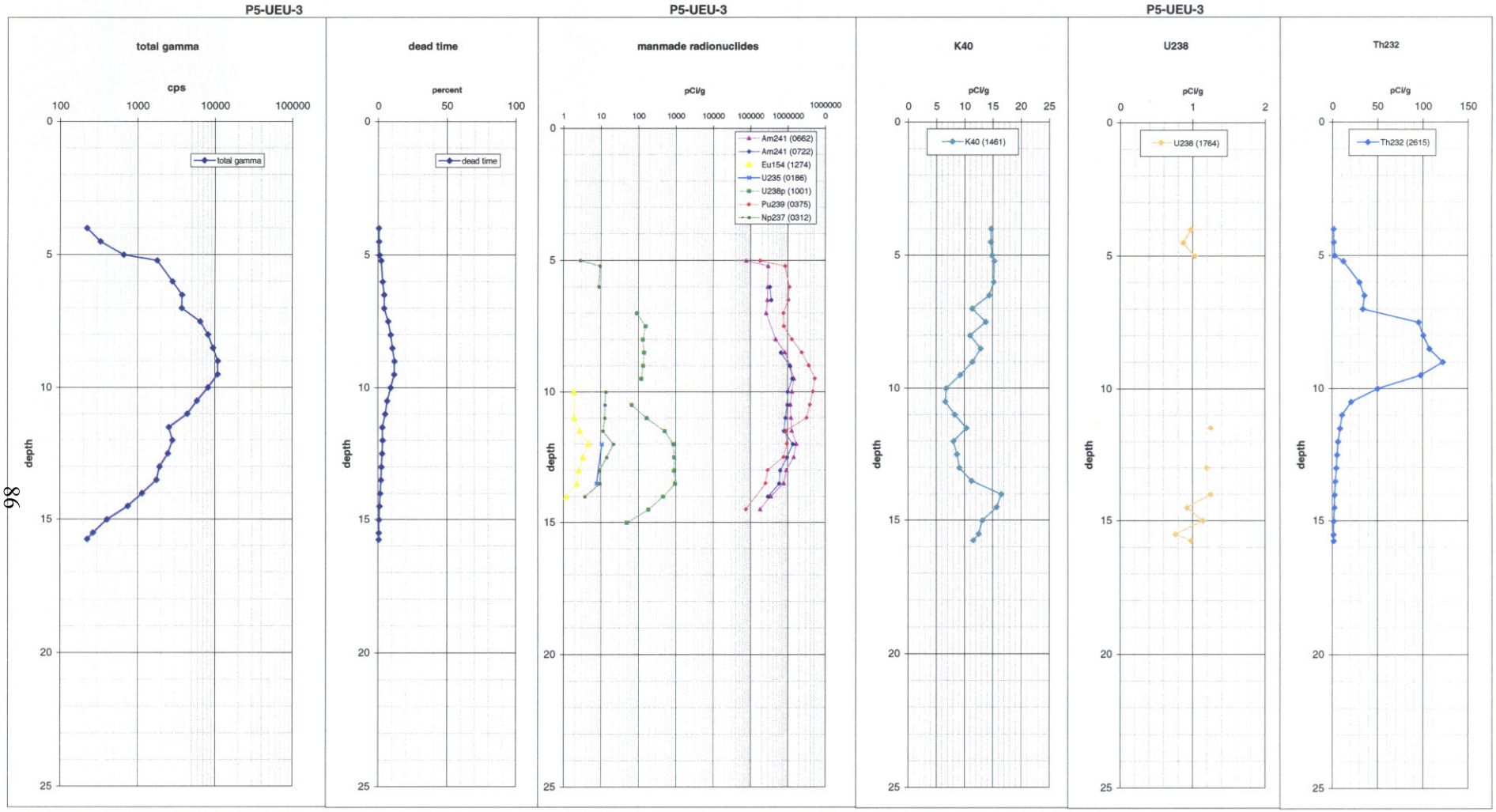


P5-UEU-2

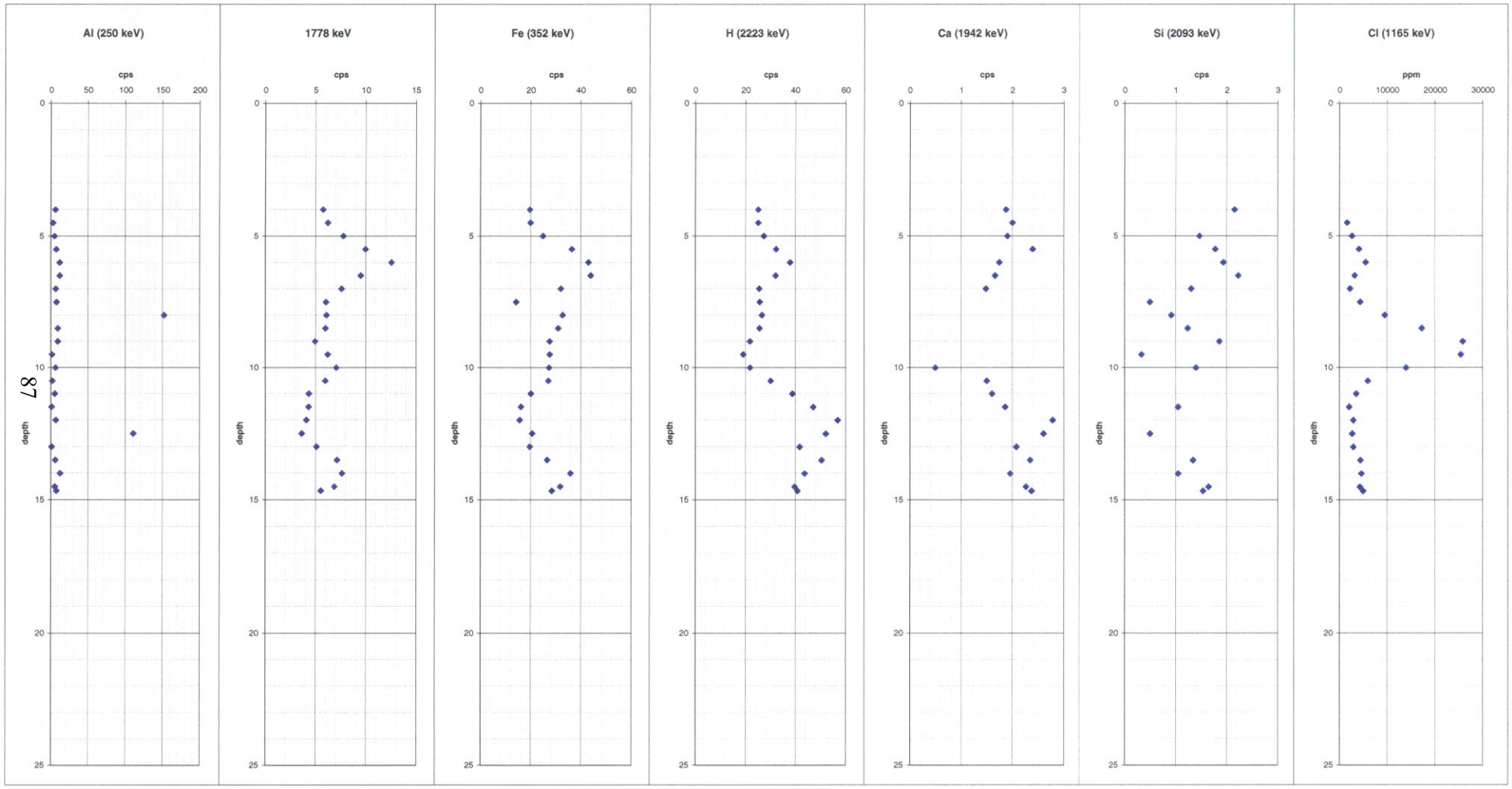

Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth

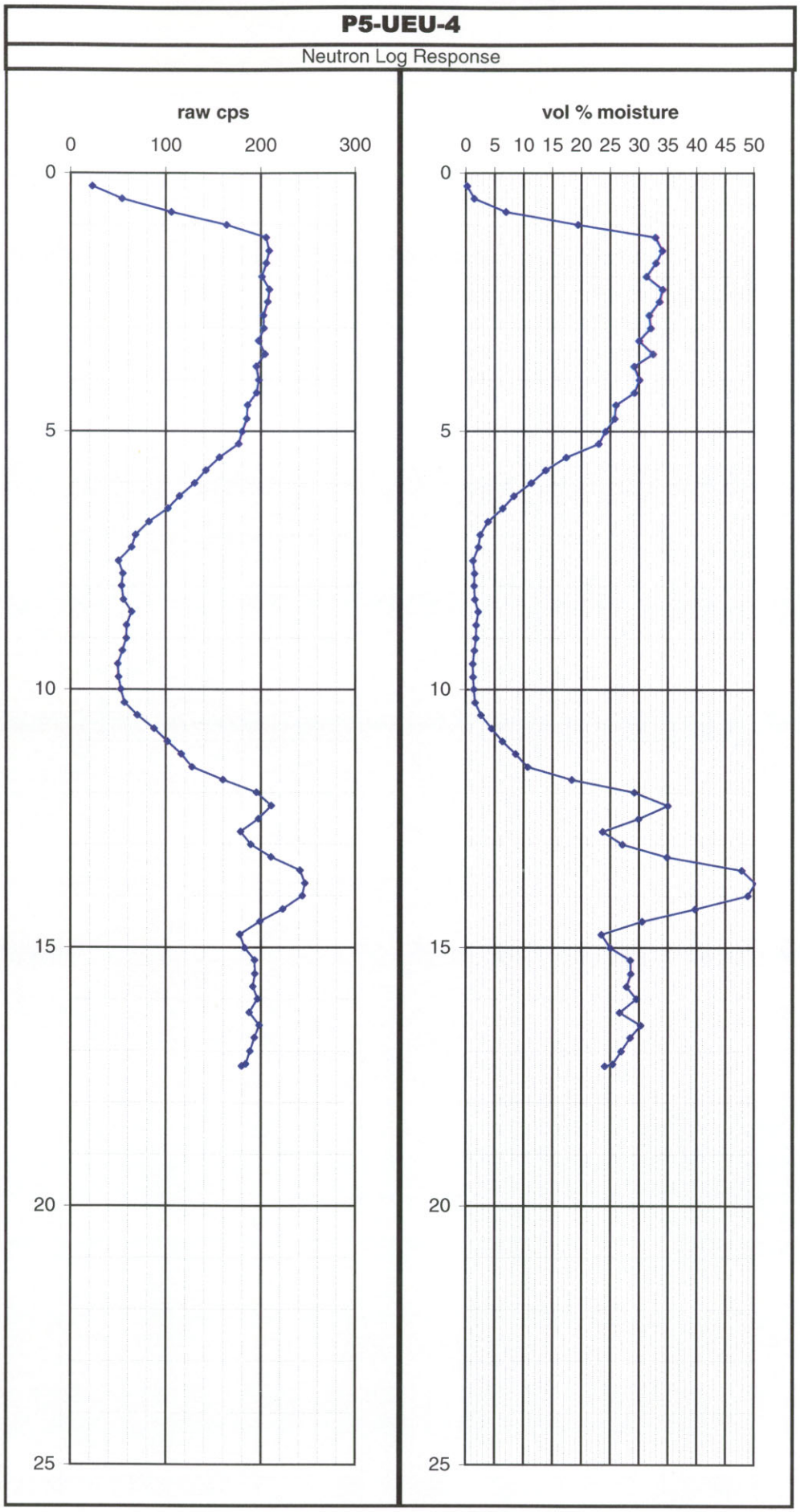

P5-UEU-3
Neutron Log Response
raw cps
0
100
200
300
vol % moisture
0
5
10
15
20
25
30
35
0
5
10
15
20
25

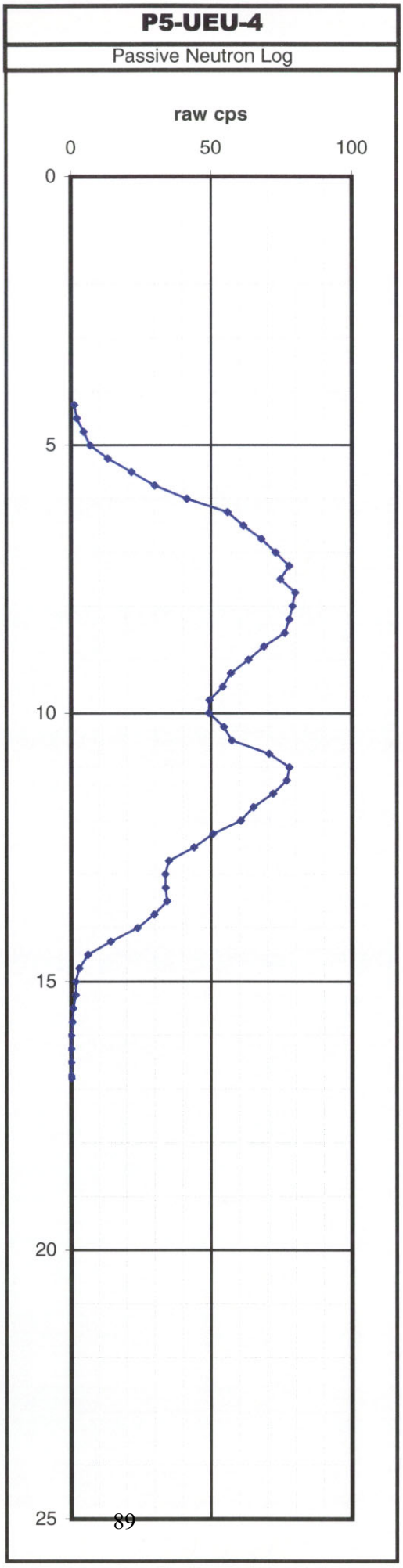

P5-UEU-3
Passive Neutron Log
raw cps
0
50
100
0
5
10
15
20
25


P5-UEU-3
total gamma
cps
total gamma
depth
P5-UEU-3
dead time
percent
dead time
depth
P5-UEU-3
manmade radionuclides
pCi/g
Am241 (0662)
Am241 (0722)
Eu154 (1274)
U235 (0186)
U238p (1001)
Pu239 (0375)
Np237 (0312)
depth
P5-UEU-3
K40
pCi/g
K40 (1461)
depth
U238
pCi/g
U238 (1764)
depth
Th232
pCi/g
Th232 (2615)
depth

P5-UEU-3


Al (250 keV)
1778 keV
Fe (352 keV)
H (2223 keV)
Ca (1942 keV)
Si (2093 keV)
Cl (1165 keV)
cps
ppm
depth
0
5
10
15
20
25
0 50 100 150 200
0 5 10 15
0 20 40 60
0 20 40 60
0 1 2 3
0 1 2 3
0 10000 20000 30000


P5-UEU-4
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


P5-UEU-4
Passive Neutron Log
raw cps
0
50
100
0
5
10
15
20
25