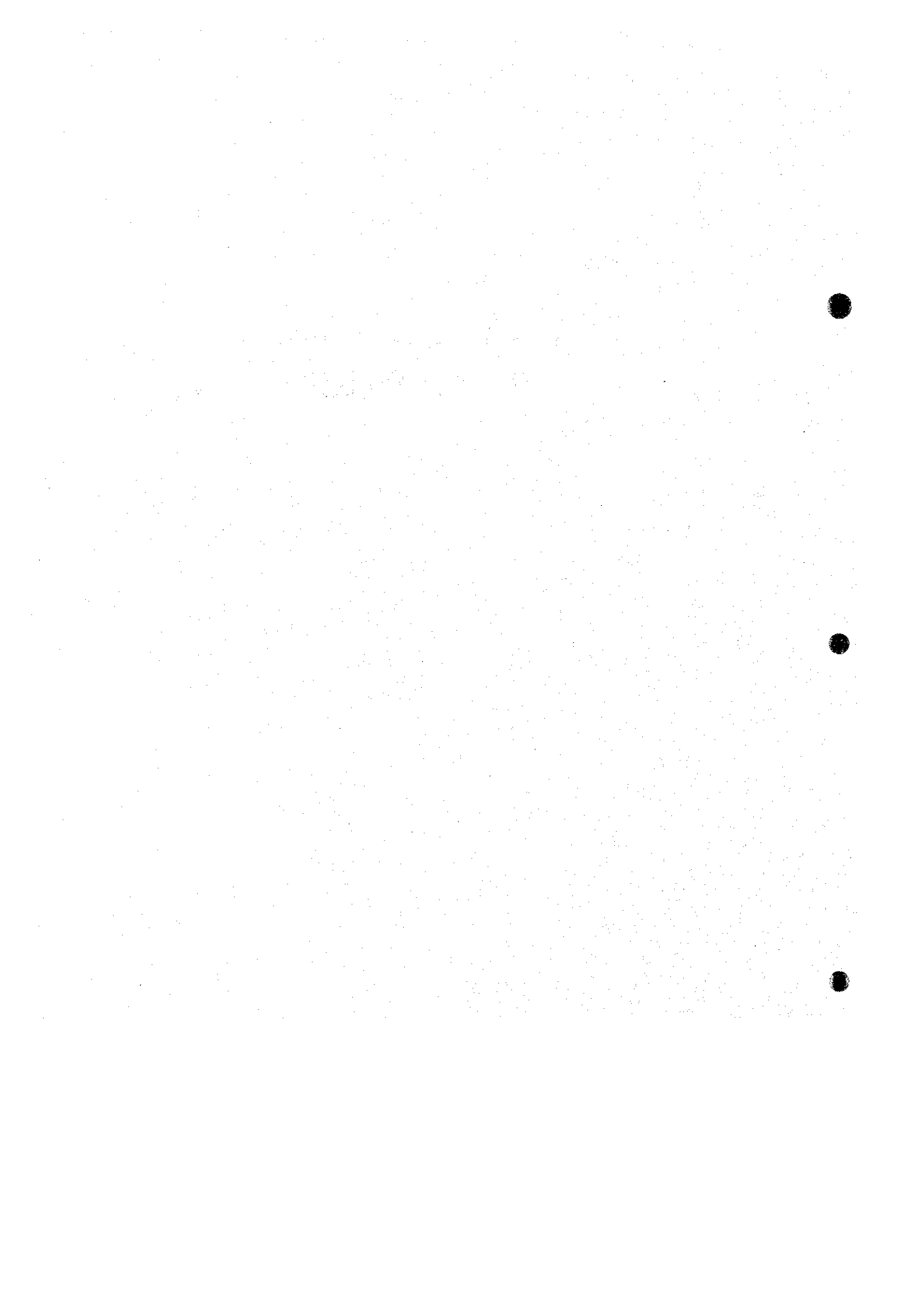


B-6 オレンジ地域  
ボーリング柱状図



Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
5	#####	weathered beforsite (Mcb1)	0.0m-6.5m light brown (5YR 5/6) to light brownish gray (5YR 6/1) beforsite( $\phi=2$ to 3mm) with brownish Fe hydroxides	2	1-5(G)	5.0	5.5	0.5
10	#####	beforsite (Mcb1)	6.5-35.0m  very light gray (N8) beforsite( $\phi=2$ to 3mm) with dark green, dusky brown, and black minerals which are impregnated( $\phi=2$ to 3 mm) and scattered( $d=3$ to 5cm)  clear flow banding( $\angle 60$ to $70^\circ$ )	0	1-10(G)	10.0	10.5	0.5
15	#####		1-15(G)		15.0	15.5	0.5	
20	#####		1-20(G, W)		20.0	20.5	0.5	
25	#####		1T-1(T) 1-25(G) 1X-1(X)		25.0 25.0 26.0	25.1 25.5 26.1	0.1 0.5 0.1	
30	#####	weathered beforsite (Mcb1)	30.4-31.4m rich in impregnated pyrite( $\phi=1$ to 2mm)	1	1-30(G, W)	30.0	30.5	0.5
35	#####		1-35(G)		35.0	35.5	0.5	
40	#####		35.0-40.5m light brownish gray (5YR 6/1) to brownish gray (5YR 4/1) beforsite( $\phi=2$ to 3mm) with brownish Fe hydroxides		1-40(G)	40.0	40.5	0.5
45	#####	beforsite (Mcb1)	40.5-52.0m very light gray (N8) beforsite ( $\phi=2$ to 3mm) with black, dusky brown, and dark green minerals which are dotted( $d=2$ to 3mm and spotted( $d=5$ to 30 cm), and with a few pyrites( $\phi=1$ to 2mm) $\angle 60^\circ$	0	1-45(G, W) 1R-1(I)	45.0 45.0	45.5 45.1	0.5 0.1
50	#####		40.5-42.0m & 48.0-50.6m rich in dark green, dusky brown, and black minerals( $\phi=1$ to 3mm) clear boundary ( $\angle 45^\circ$ )		1-50(G)	50.0	50.5	0.5
55	.....	brecciated arkose (Nsh)	52.0-66.0m very light gray(N8) brecciated arkose ( $\phi=1$ to 2mm) with beforsite networks which matrix is rich in black and dusky minerals	1	1-55(G)	55.0	55.5	0.5
60	.....		1-60(G, W) 1X-2(X)		60.0 60.0	60.5 60.1	0.5 0.1	
65	.....		1-65(G)		65.0	65.5	0.5	
70	.....		66.0-81.5m light gray(N7) brecciated arkose ( $\phi=1$ to 2mm) with a few light gray beforsite veinlets (10 to 30 cm wide) which contain a few black and dusky brown minerals		1-70(G)	70.0	70.5	0.5
75	.....		1-75(G)		75.0	75.5	0.5	
80	.....	arkose (Nsh)	67.0-70.6m & 76.5-80.5m brown to light brown fractured arkose	1	1-80(G)	80.0	80.5	0.5
85	.....		81.5-91.5m light gray(N7) massive arkose ( $\phi=1$ to 2mm) with pyrite dissemination		1T-3(T)	85.0	85.1	0.1
90	.....		84.0m & 87.5m calcite veinlets(5mm wide)					
95	.....	arkose (Nsh)	91.5-95.5m pale red(10R 6/2) massive arkose with pale red Fe oxides dissemination	1				
100	.....		95.5-109.6m light gray(N7) arkose ( $\phi=1$ to 2mm max. 5mm) with pyrite dissemination					

Remarks: (G):Geochemical Analysis, (W):Whole Rock Analysis, (T):Polished Thin Section, (E):EPNA Analysis  
(X):X-ray Diffraction Analysis, (I):Oxygen and Carbon Isotope Analysis  
Weathering: 0:fresh, 1:weakly altered, 2:moderately altered 3:strongly altered

B-6 オレンジ地域ボーリング柱状図(1)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weathering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
105	.....	arkose (Nsh)	95.5-109.6m	1				
			light gray(N7) arkose ( $\phi=1$ to 2mm max. 5mm) with pyrite dissemination					
110	>>>>		clear boundary ( $\angle 60^\circ$ )		1-110(G)	110.0	110.5	0.5
			109.6-114.7m					
115	>>>>		very light gray(N8) carbonated syenite ( $\phi=2$ to 3mm) with calcite(sovite), pyrite, black, and dusky brown minerals		1-115(G)	115.0	115.5	0.5
			109.6-118.7m					
120	>>>>		very light gray(N8) carbonated syenite ( $\phi=2$ to 3mm) with black minerals		1-117(G)	117.3	117.8	0.5
			118.7-122.5m					
125	>>>>		very light gray carbonated syenite with calcite(sovite)		1-120(G, W)	120.0	120.5	0.5
			122.5-123.5m					
130	>>>>	carbonated syenite (Wsu)	very light gray(N8) carbonated syenite with black minerals		1-122(G)	122.3	122.8	0.5
			123.5-125.5m					
135	>>>>		very light gray carbonated syenite with abundant black and sulfides minerals		1-125(G)	125.0	125.5	0.5
			130.0-131.0m					
140	>>>>		clear flow banding( $\angle 45^\circ$ )		1X-3(X)	126.0	126.1	0.1
			131.0-138.0m					
145	>>>>		very light gray carbonated syenite with calcite(sovite)		1-127(G)	127.3	127.8	0.5
			138.0-150.4m					
150	>>>>		very light gray(N8) carbonated syenite with abundant black and sulfides minerals		1-130(G, W)	130.0	130.5	0.5
			150.4m					
					1T-4(T)	131.5	131.6	0.1
					1-132(G)	132.3	132.8	0.5
					1-135(G)	135.0	135.5	0.5
					1-137(G)	137.3	137.8	0.5
					1-140(G, W)	140.0	140.5	0.5
					1-145(G)	145.0	145.5	0.5
					1-147(G)	147.3	147.8	0.5
					1T-5(T)	148.4	148.5	0.1
					1X-4(X)	148.4	148.5	0.1
					1-150(G, W)	150.0	150.5	0.5

B-6 オレンジ地域ボーリング柱状図(2)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weathering	Sampling Number & (Type of Test)	Sampling Interval			
						From (m)	to (m)	Width (m)	
5 10 15 20 25 30	#####	ankeritic beforsite (Mcbl)	0.0-9.0m dusky brown(5YR 2/2) to grayish brown (5YR 3/2) ankeritic beforsite( $\phi=2$ to 3 mm) with dark green blocks (d=2 to 3mm, max.10cm) which contain pale green clayey mineral, black Fe oxide, and brown hydroxide( $\phi=1$ to 2mm)	1	2-0(G)	0.0	0.3	0.3	
			2-5(G)		5.0	5.5	0.5		
			2-10(G)		10.0	10.5	0.5		
			2T-1(T)		15.0	15.1	0.1		
			2-15(G)		15.0	15.5	0.5		
			2-17(G)		17.3	17.8	0.5		
			2-20(G, W)		20.0	20.5	0.5		
			2-22(G)		22.3	22.8	0.5		
			2-25(G)		25.0	25.5	0.5		
			2-27(G)		27.3	27.8	0.5		
35 40 45 50 55 60 65 70 75 80	#####	weathered beforsite (Mcbl)	31.0-49.0m light brownish gray(5YR 6/1) beforsite ( $\phi=2$ to 3mm) with black, dusky brown minerals rich part(d=3 to 5cm max.20cm) partly contain dark to pale green rich parts	1	2-32(G)	32.3	32.8	0.5	
			2X-1(X)		32.2	32.3	0.1		
			2-35(G)		35.0	35.5	0.5		
			2-37(G)		37.3	37.8	0.5		
			2-40(G, W)		40.0	40.5	0.5		
			2-42(G)		42.3	42.8	0.5		
			2-45(G)		45.0	45.5	0.5		
			2-47(G)		47.3	47.8	0.5		
			2-50(G, W)		50.0	50.5	0.5		
			49.0-68.5m grayish brown(5YR 3/2) to dusky brown (5YR 2/2) beforsite( $\phi=1$ to 2mm), fractured with brown Fe hydroxides( $\phi=1$ 2mm) and partly black Fe oxides		2-55(G)	55.0	55.5	0.5	
85 90 95 100	#####	fractured beforsite (Mcbl)	68.5-71.5m light brownish gray beforsite with black and dusky brown minerals	1	2-60(G, W)	60.0	60.5	0.5	
			2-65(G, W)		65.0	65.5	0.5		
			68.5-71.5m light brownish gray beforsite with black and dusky brown minerals		2-70(G, W)	70.0	70.5	0.5	
			2-72(G)		72.3	72.8	0.5		
			71.5-77.5m grayish brown to dusky brown ankeritic beforsite( $\phi=1$ to 2mm)		2-75(G, W)	75.0	75.5	0.5	
			2T-2(T)		75.0	75.0	0.1		
			2-77(G)		77.3	77.8	0.5		
			2-80(G)		80.0	80.5	0.5		
			77.5-120.0m light gray(N7) to brownish gray(5YR 4/1) to dark gray(N4) beforsite( $\phi=1$ to 2mm) with black Fe oxide, brown phlogopite and white mica fractured(clayey, sandy to powdery)		1	2-95(G)	95.0	95.5	0.5

B-6 オレンジ地域ボーリング柱状図(3)



Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weathering	Sampling Number	Sampling Interval		
						From (m)	to (m)	Width (m)
5	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	weathered beforsite (Mcbl)	0.0-4.5m light gray(N7) to light brownish gray befor site( $\phi=2$ mm max.5mm) with Fe oxides spots( $d=2$ to 3cm) to networks	1	3-0(G)	0.0	0.3	0.3
			4.5-9.4m ankeritic beforsite (Mcbl)	1	3-5(G) 3X-1(X)	5.0 5.7	5.5 5.8	0.5 0.1
10	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcbl)	9.4-12.5m very light gray befor site with sulfides, black and dusky red Fe oxides	0 to 1	3-10(G)	10.0	10.5	0.5
15	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#		12.5-13.3m light brownish gray befor site 13.3-16.0m very light gray befor site with sulfides dissemination					
20	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcbl)	16.0-17.4m light brownish gray befor site 17.4-20.4m very light gray(N8) befor site ( $\phi=5$ to 15mm) with sulfides and grayish brown Fe hydroxides( $d=5$ to 15mm)	0 to 1	3-20(G, W) 3R-1(I) 3X-2(X) 3T-1(T)	20.0 23.2	20.5 23.4	0.5 0.1
25	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#		20.4-25.4m very light gray(N8) befor site ( $\phi=5$ to 15mm) with sulfides, black Fe oxides, brownish gray Fe hydroxides( $d=5$ to 15mm)					
30	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	weathered beforsite(Mcbl) sulfides-rich beforsite(Mcbl)	25.4-27.3m light brownish gray befor site ( $\phi=5$ to 15mm) 27.3-30.3m very light gray befor site ( $\phi=5$ to 15mm) with sulfides and Fe oxide. 30.3-46.0m	1 0	3-30(G)	30.0	30.5	0.5
35	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	weathered beforsite (Mcbl)	light brownish gray(5YR 6/1) befor site ( $\phi=1$ to 2mm max.10mm) with gray brown Fe hydroxides( $d=3$ to 5cm)	1	3-35(G)	35.0	35.5	0.5
40	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#							
45	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	sulfides-rich beforsite (Mcbl)	46.0-52.0m very light gray(N8) befor site( $\phi=2$ to 3 mm max.20mm) with sulfides and black Fe oxides	0	3-50(G)	50.0	50.5	0.5
50	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#							
55	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	weathered beforsite(Mcbl) sulfides-rich beforsite(Mcbl)	53.3-56.1m very light gray befor site ( $\phi=3$ to 50mm) with sulfides and Fe oxide 56.1-60.1m light brownish gray(5YR 6/1) befor site ( $\phi=2$ to 3mm) with brown Fe hydroxides	1 0	3-60(G, W)	60.0	60.5	0.5
60	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcbl)	60.1-63.0m very light gray(N8) befor site ( $\phi=2$ to 3mm) with sulfides, Fe oxide, light brown and pale green minerals	0	3-65(G)	65.0	65.5	0.5
65	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	weathered beforsite (Mcbl)	63.0-69.0m clear flow banding ( $<70^\circ$ ) light brownish gray(5YR 6/1) befor site ( $\phi=2$ to 3mm max.20mm) with grayish brown Fe hydroxides	1	3-70(G) 3T-3(T)	70.0 70.0	70.5 70.1	0.5 0.1
70	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcbl)	69.0-82.3m clear flow banding ( $<70^\circ$ ) very light gray(N8) befor site( $\phi=3$ to 5mm max.20mm) with dotted sulfides, black Fe oxides, light brown and pale green minerals	0	3-75(G) 3T-4(T, E)	75.0 77.0	75.5 7.1	0.5 0.1
75	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#							
80	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#	sulfides-rich beforsite (Mcbl)	85.5-90.0m very light gray(N8) befor site ( $\phi=1$ to 2mm) with dotted sulfides, black Fe oxides, light brown and pale green minerals 90.0-98.2m	0	3R-3(I) 3-90(G)	89.1 90.0	89.2 90.5	0.1 0.5
85	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#							
90	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcbl)	85.5-90.0m very light gray(N8) befor site ( $\phi=1$ to 2mm) with dotted sulfides, black Fe oxides, light brown and pale green minerals 90.0-98.2m	0	3R-3(I) 3-90(G)	89.1 90.0	89.2 90.5	0.1 0.5
95	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#							
100	#2#2#2#2# #2#2#2#2#	Fe oxides-rich beforsite(Mcbl)	98.2-106.9m light brownish gray befor site with Fe oxide and Fe hydroxides	1	3-100(G, W)	100.0	105.5	0.5

B-6 オレンジ地域ボーリング柱状図(5)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number	Sampling Interval		
						From (m)	to (m)	Width (m)
100	#2#2#2#2#	Fe oxides-rich beforsite (Mcbl)	98.2-106.9m light brownish gray(5YR 5/6) beforsite ( $\phi=1$ to 2mm)with dotted black Fe oxides, grayish brown Fe hydroxides	1	3-105(G)	105.0	105.5	0.5
105	#2#2#2#2#		106.9-112.0m graysih brownish(5YR 3/2) to yellowish brown(10YR 4/2) ankeriteic beforsite( $\phi=$ 1 to 2mm max. 5mm) with graysih brown Fe oxides					
110	#1#1#1#1#	weathered beforiste (Mcbl)	112.0-120.6m light brwonish gray(5YR 6/1) to brownish gray(5YR 4/1) beforsite( $\phi=1$ to 2mm) with graysih brown Fe hydroxides, black Fe oxides, and sulfides	1	3-110(G)	110.0	110.5	0.5
115	#1#1#1#1#		120.6-121.8m very light gray beforsite ( $\phi=1$ to 2mm) with sulfides and Fe oxide					
120	#1#1#1#1#	sulfides-rich beforsite(Mcbl)		0	3-120(G, W)	120.0	120.5	0.5
125	#1#1#1#1#							
130	#1#1#1#1#	weathered and sulfides-rich beforsite (Mcbl)	112.0-120.6m l brwonish gray(5YR 6/1) to brownish gray(5YR 4/1) beforsite( $\phi=1$ to 2mm) with graysih brown Fe hydroxies, black Fe oxides, and sulfides	1	3-130(G)	130.0	130.5	0.5
135	#1#1#1#1#							
140	#1#1#1#1#				3-140(G, W)	140.0	140.5	0.5
145	#1#1#1#1#							
150	#1#1#1#1#		150.3m		3-145(G) 3T-5(T) 3R-5(I) 3-150(G)	145.0 146.7 146.7 150.0	145.5 146.8 146.8 150.5	0.5 0.1 0.1 0.5

B-6 オレンジ地域ボーリング柱状図(6)



Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weathering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
					4-0(G)	0.0	0.3	0.3
5		weathered beforsite (Mcbl)	0.0-14.3m light brownish gray(5YR 5/6) to very light gray(N8) beforsite( $\phi=1$ to 2mm) with spots(5×20cm) by graysih brown Fe hydroxides	1	4-5(G)	5.0	5.5	0.5
10					4-10(G)	10.0	10.5	0.5
15		sulfides-rich beforsite (Mcbl)	14.3-20.3m clear flow banding( $\angle 70^\circ$ ) very light gray(N8) beforsite( $\phi=1$ to 2 mm) with dotted to spotted(d=2 to 3cm) sulfides, brownish black Fe oxides, and a few yellowish brown minerals	0	4-15(G) 4T-4(T)	15.0 15.0	15.5 15.1	0.5 0.1
20					4-20(G, W) 4X-1(X) 4T-1(T)	20.0 20.6 20.6	20.5 20.7 20.7	0.5 0.1 0.1
25		Fe oxides-rich beforiste (Mcbl)	20.3-30.5m clear flow banding( $\angle 70^\circ$ ) very light gray(N8) beforsite( $\phi=1$ to 2 mm) with dotted to spotted(d=2 to 3cm) black Fe oxides, yellowish brown minerals and a few sulfides	0	4-25(G)	25.0	25.5	0.5
30					4-30(G, W) 4T-2(T)	30.0 30.0	30.5 30.1	0.5 0.1
35		sulfides-rich beforsite (Mcbl)	30.5-37.5m very light gray(N8) beforsite( $\phi=1$ to 2 mm) with dotted sulfides and black Fe oxides( $\phi=1$ to 2mm)	0	4-35(G) 4R-1(I)	35.0 35.0	35.5 35.1	0.5 0.1
40		Fe oxides-rich beforiste (Mcbl)	37.5-45.0m very light gray(N8) beforsite( $\phi=2$ to 3 mm max.10mm) with dotted black Fe oxides (1 to 2mm)and a few sulfides(d=1 to 2mm) partly light grayish brown weathered beforsite with Fe hydroxides spots	0 to 1	4-40(G, W)	40.0	40.5	0.5
45					4-45(G)	45.0	45.5	0.5
50		weathered beforsite (Mcbl)	45.0-66.0m light brownish gray(5YR 6/1) to light gray(N7) beforsite( $\phi=1$ to 2mm, max10mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-50(G) 4-55(G)	50.0 55.0	50.5 55.5	0.5 0.5
55					4-60(G, W)	60.0	60.5	0.5
60					4-65(G)	65.0	65.5	0.5
65		beforsite (Mcbl)	66.0-72.0m very light gray(N8) beforsite( $\phi=2$ to 3 mm max.10mm) with a few dotted sulfides and black Fe oxides( $\phi=1$ to 2mm)	0	4-70(G)	70.0	70.5	0.5
70					4-75(G)	75.0	75.5	0.5
75		weathered beforsite (Mcbl)	72.0-78.5m light brownish gray(5YR 6/1) to light gray(N7) beforsite( $\phi=1$ to 2mm, max.50mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-80(G, W)	80.0	80.5	0.5
80					4-85(G)	85.0	85.5	0.5
85		beforsite (Mcbl)	78.5-84.0m very light gray(N8) beforsite( $\phi=2$ to 3 mm max.20mm) with a few dotted sulfides and black Fe oxides( $\phi=1$ to 2mm) 84.0-86.0m light brownish gray beforsite ( $\phi=2$ to 3mm max.20mm) with Fe hydroxide 86.0-93.0m very light gray(N8) beforsite( $\phi=2$ to 3 mm max.10mm) with a few dotted sulfides and black Fe oxides( $\phi=1$ to 2mm)	0	4-90(G)	90.0	90.5	0.5
90					4-95(G)	95.0	95.5	0.5
95		weathered beforsite (Mcbl)	93.0-101.5m light brownish gray(5YR 6/1) to light gray(N7) beforsite( $\phi=2$ to 3mm, max.10mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-100(G, W)	100.0	105.5	0.5
100								

B-6 オレンジ地域ボーリング柱状図(7)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
100	#####							
105	#####	beforiste (Mcbl)	101.5-106.0m very light gray(N8) beforiste( $\phi=1$ to 2 mm max.30mm) with a few dotted sulfides and black Fe oxides( $\phi=1$ to 2mm) 106.0-122.0m	0	4-105(G)	105.0	105.5	0.5
110	#####							
115	#####	weathered beforiste (Mcbl)	light brownish gray(5YR 6/1) to light gray(N7) beforiste( $\phi=2$ to 3mm, max.50mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-110(G) 4-115(G)	110.0 115.0	110.5 115.5	0.5 0.5
120	#####							
125	#####	beforiste (Mcbl)	122.0-127.0m very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with a few dotted sulfides and black Fe oxides( $\phi=1$ to 2mm)	0	4-125(G)	125.0	125.5	0.5
130	#####	weathered beforiste (Mcbl)	127.0-132.5m light brownish gray(5YR 6/1) to light gray(N7) beforiste( $\phi=1$ to 2mm, max.5mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-130(G)	130.0	130.5	0.5
135	#####	beforiste (Mcbl)	132.5-136.5m very light gray beforiste ( $\phi=1$ to 2mm max.5mm) with a few dotted sulfides and black Fe oxide( $\phi=1$ to 2mm) 136.5-143.0m	0	4-135(G)	135.0	135.5	0.5
140	#####	weathered beforiste (Mcbl)	light brownish gray(5YR 6/1) to light gray(N7) beforiste( $\phi=1$ to 2mm, max.5mm) with grayish brown Fe hydroxides spots (d=5 to 10cm) clear flow banding ( $\angle 60$ to $70^\circ$ )	1	4-140(G, W)	140.0	140.5	0.5
145	#####							
145	#####	sulfides-rich beforiste (Mcbl)	143.0-150.2m very light gray(N8) beforiste( $\phi=1$ to 2 mm max.30mm) with dotted sulfides, green clayey, greenish gray minerals( $\phi=1$ to 3 mm)	0	4-145(G) 4T-3(T) 4X-2(X)	145.0 146.9 148.7	145.5 147.0 148.8	0.5 0.1 0.1
150	#####				4-150(G)	150.0	150.5	0.5

B-6 オレンジ地域ボーリング柱状図(8)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number & (Type of Test)	Sampling Interval						
						From (m)	to (m)	Width (m)				
5	#-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-# #-#-#-#-#				5-0(G)	0.0	0.3	0.3				
					5-5(G)	5.0	5.5	0.5				
					10	weathered beforiste (Mcbl)	0.0-24.0m grayish brown(5YR 3/2) to brownish gray (5YR 4/1) beforiste( $\phi=1$ to 2mm, max. 3 cm) with dark green rock breccia(d=3 to 5cm max. 10cm) white calcite veinlets(W=1 to 2mm)	1	5-10(G)	10.0	10.5	0.5
									5-15(G)	15.0	15.5	0.5
									5-20(G)	20.0	20.5	0.5
25	#3#3#3#3# #3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste (Mcbl)	24.0-34.0m light gray(N7) beforiste( $\phi=1$ to 3mm) with irregular spots(d= 2 to 3cm max. 10 cm) by dark green minerals, and with dots(d=1 to 2 mm) by yellowish brown, and pale green minerals	0	5-25(G)	25.0	25.5	0.5				
					5-30(G, W)	30.0	30.5	0.5				
35	L L L L L L L L L L L L L L L L L L	dolerite dyke (Kdd)	34.0-39.0m dark green dolerite dyke	1	5-34(G)	34.0	34.5	0.5				
					5X-1(X)	35.0	35.1	0.1				
45	#3#3#3#3# #3#3#3#3# #3#3#3#3# #3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste (Mcbl)	39.0-41.5m light greenish gray beforiste with pale to dark green, and brownish black Fe oxide minerals 41.5-55.0m light greenish gray(5GY 8/1) beforiste ( $\phi=1$ to 2mm, max. 10mm) with spots(d=3 to 5cm, max 40cm) of dark green, black, pale to dark green, and dark yellowish minerals clear flow banding( $<70^\circ$ )	0	5-40(G, W)	40.0	40.5	0.5				
					5-45(G)	45.0	45.5	0.5				
					5-47(G)	47.3	47.8	0.5				
					5-50(G, W)	50.0	50.5	0.5				
					5-55(G) 5X-2(X)	55.0 55.0	55.5 55.1	0.5 0.1				
60	#3#3#3#3# #2#2#2#2#		55.0-59.7m light greenish gray beforiste( $\phi=1$ to 2mm max. 10mm) with spots(d=3 to 30cm max. 1m) of dark green and black minerals		5-60(G, W)	60.0	60.5	0.5				
					65	#2#2#2#2# #2#2#2#2# #2#2#2#2# #2#2#2#2# #2#2#2#2#	Fe oxide-rich beforiste (Mcbl)	59.7-83.8m clear flow banding( $<70^\circ$ ) very light gray(N8) beforiste( $\phi=1$ to 2mm) with black Fe oxides and sulfides, bearing spots(d=1 to 5cm) of dark green minerals clear flow banding( $<70^\circ$ )	0	5-65(G)	65.0	65.5
5-67(G)	67.3	67.8	0.5									
5-70(G, W)	70.0	70.5	0.5									
5-75(G)	75.0	75.5	0.5									
5-80(G, W)	80.0	80.5	0.5									
85	#1#1#1#1# #2#2#2#2#	sulfides-rich beforiste (Mcbl)	83.8-86.2m very light gray beforiste( $\phi=1$ to 2mm) with dotted sulfides and dark green brecciated syenite(d=5.30cm)	0	5E-1(T)	84.7	84.8	0.1				
					5-85(G)	85.0	85.5	0.5				
90	#2#2#2#2# #1#1#1#1#	Fe oxide-rich beforiste(Mcbl)	86.2-88.7m very light gray beforiste( $\phi=1$ to 2mm) with bk Fe ox and sulfides	0	5T-1(T)	88.5	88.6	0.1				
					95	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforiste (Mcbl)	88.7-105.1m clear flow banding( $<0^\circ$ ) very light gray(N8) to light gray(N7) beforiste( $\phi=1$ to 2mm) with dotted sulfides(pyrite, pyrhotite)	0	5-90(G, W)	90.0	90.5
5E-2(T)	92.2	92.3	0.1									
5-92(G)	92.3	92.8	0.5									
100	#1#1#1#1# #1#1#1#1#		96.1-96.2m sulfides veinlets(W=2cm)		5-95(G)	95.0	95.5	0.5				
					5T-2(T)	96.1	96.2	0.1				
					5-100(G, W)	100.0	105.5	0.5				

B-6 オレンジ地域ボーリング柱状図(9)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number & (Type of Test)	Sampling Interval								
						From (m)	to (m)	Width (m)						
100	#1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Wcbl)	88.7-105.1m very light gray(N8) to light gray(N7) beforsite( $\phi=1$ to 2mm) with dotted sulfides(pyrite, pyrrhotite)	0	5-105(G)	105.0	105.5	0.5						
105	>>>> >>>> >>>>	syenite (Msu)	105.1-108.4m dark green metamorphosed syenite with sulfides(pyrite, pyrrhotite)	0										
110	+ + + + + + + + + + + + + + + + + + + +	micro-granite (Ngr)	108.4-150.3m very light gray quartz( $\phi=1$ to 2mm) bearing micro-granite with dotted sulfides(pyrrhotite) and black Fe oxide	1										
115	+ + + + + + + + + + + + + + + + + + + +													
120	+ + + + + + + + + + + + + + + + + + + +													
125	+ + + + + + + + + + + + + + + + + + + +													
130	+ + + + + + + + + + + + + + + + + + + +													
135	+ + + + + + + + + + + + + + + + + + + +													
140	+ + + + + + + + + + + + + + + + + + + +													
145	+ + + + + + + + + + + + + + + + + + + +													
150	+ + + + +								150.3m					

B-6 オレンジ地域ボーリング柱状図(10)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
5	#-#-#-#-# #-#-#-#-# #-#-#-#-# #1#1#1#1#	weathered beforsite (Mcb2)	0.0-3.8m grayish brown(5YR 3/2) beforiste ( $\phi=1$ to 2mm)	2	6-0(G)	0.0	0.3	0.3
			3.8-20.0m very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with dotted sulfide(pyrite) and black Fe oxide minerals( $\phi=1$ to 2mm) partly light brownish gray weathered		6-5(G)	5.0	5.5	0.5
10	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	clear flow banding( $\angle 60^\circ$ )	0 to 1	6-10(G, W)	10.0	10.5	0.5
					6-15(G)	15.0	15.5	0.5
20	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	clear flow banding( $\angle 70^\circ$ ) very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with dotted sulfide(pyrite) and black Fe oxide minerals( $\phi=1$ to 2mm)	0	6T-1(T)	17.5	17.6	0.1
					6-20(G)	20.0	20.5	0.5
25	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	20.0-41.0m clear flow banding( $\angle 70^\circ$ ) very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with dotted sulfide(pyrite) and black Fe oxide minerals( $\phi=1$ to 2mm)	0	6-25(G)	25.0	25.5	0.5
					6-30(G, W)	30.0	30.5	0.5
35	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	clear flow banding( $\angle 70^\circ$ ) very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with dotted sulfide(pyrite) and black Fe oxide minerals( $\phi=1$ to 2mm)	0	6-35(G)	35.0	35.5	0.5
					6-40(G)	40.0	40.5	0.5
45	#3#3#3#3# #3#3#3#3# #3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste (Mcb2)	41.0-53.0m very light gray(N8) beforiste( $\phi=5$ to 10mm) with dotted pale green minerals ( $\phi=5$ to 7mm), dark brown minerals( $\phi=$ 5 to 10mm), brown minerals( $\phi=3$ to 5mm), black Fe oxide( $\phi=1$ to 2mm), and sulfides (marcasite, pyrite)	0	6X-1A(X)	42.2	42.3	0.1
					6X-1B(X)	42.3	43.4	0.1
50	#3#3#3#3# #3#3#3#3# #1#1#1#1# #1#1#1#1#	phlogopite-rich beforiste (Mcb2)	41.0-53.0m very light gray(N8) beforiste( $\phi=5$ to 10mm) with dotted pale green minerals ( $\phi=5$ to 7mm), dark brown minerals( $\phi=$ 5 to 10mm), brown minerals( $\phi=3$ to 5mm), black Fe oxide( $\phi=1$ to 2mm), and sulfides (marcasite, pyrite)	0	6-45(G)	45.0	45.5	0.5
					6-50(G, W)	50.0	50.5	0.5
55	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	53.0-73.0m very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with dotted sulfide(pyrite) and black Fe oxide minerals( $\phi=1$ to 2mm)	0	6-55(G)	55.0	55.5	0.5
					6-60(G)	60.0	60.5	0.5
65	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	clear flow banding( $\angle 60$ to $70^\circ$ )	0	6-65(G)	65.0	65.5	0.5
					6-70(G, W)	70.0	70.5	0.5
75	#3#3#3#3# #3#3#3#3# #3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste (Mcb2)	73.0-77.0m very light gray beforiste with dotted pale green, dark brown, brown minerals, black Fe oxide, and sulfides with black silicate breccia( $d=2$ to 3m)	0	6-75(G)	75.0	75.5	0.5
					6-80(G)	80.0	80.5	0.5
80	# # # # # # # # # # # # # # # # # # # #	beforiste (Mcb2)	77.0-85.5m very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with a few dotted sulfide and black Fe oxide minerals( $\phi=1$ to 2mm)	0	6-85(G)	85.0	85.5	0.5
					6-85(G)	85.0	85.5	0.5
90	#3#3#3#3# #3#3#3#3# #3#3#3#3# #1#1#1#1#	phlogopite-rich beforiste (Mcb2)	85.5-88.0m very light gray beforiste with pale green, brown minerals, Fe oxide and sulfides(pyrite), with slate breccia	0	6-90(G, W)	90.0	90.5	0.5
					6-95(G)	95.0	95.5	0.5
95	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite (Mcb2)	88.0-101.0m clear flow banding( $\angle 60^\circ$ ) very light gray(N8) beforiste( $\phi=1$ to 2 mm max.5mm) with dotted sulfide(pyrite) and black Fe oxide minerals( $\phi=1$ to 2mm)	0	6-95(G)	95.0	95.5	0.5
					6-100(G)	100.0	105.5	0.5
100	#1#1#1#1#		clear flow banding( $\angle 60^\circ$ )					

B-6 オレンジ地域ボーリング柱状図 (11)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weathering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
100	#1#1#1#1# #4#4#4#4# #4#4#4#4#		101.0-109.0m very light gray(N8) beforisite( $\phi=1$ to 2 mm max.5mm) with spots(d=1 to 3cm max. 30cm) of dark brown minerlas(phlogopite) and pale green apatite( $\phi=1$ to 5mm)	0	6-105(G) 6X-2(X)	105.0 105.5	105.5 105.6	0.5 0.1
105	#4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4#	apatite-rich beforiste (Mcb2)						
110	L L L L L #4#4#4#4# #4#4#4#4# #4#4#4#4#	dolerite(Kdd)	109.0-110.3m black hard dolerite dyke 110.3m-121.5m clear flow banding( $<60^\circ$ ) very light gray(N8) beforisite( $\phi=1$ to 2 mm max.5mm) with dotted pale green, brown to dark brown(phlogopite), pale to dark green, and sulfides(pyrrhotite) minerals( $\phi=1$ to 2 max.5mm)	0	6-110(G,W)	110.0	110.5	0.5
115	#4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4#	apatite-rich beforiste (Mcb2)		0	6-115(G) 6R-1(I) 6T-2(T,E)	115.0 115.0 117.0	115.5 115.1 117.1	0.5 0.1 0.1
120	#4#4#4#4# #4#4#4#4# #4#4#4#4#		clear flow banding( $<60^\circ$ )		6-120(G) 6T-3(T)	120.0 121.3	120.5 121.4	0.5 0.1
125	L L L L L L L L L L #4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4#	dolerite dyke(Kdd) apatite-rich beforiste (Mcb2)	121.5-124.0m black hard to soft(fractured) dolerite 124.0-130.0m very light gray(N8) beforisite( $\phi=1$ to 2 mm max.5mm) with dotted apatite, sulfide phlogopite, and phlogoite, later calcite clear boundary( $<70^\circ$ )	1 0	6-125(G)	125.0	125.5	0.5
130	#4#4#4#4# #4#4#4#4# #4#4#4#4# #4#4#4#4#	dolerite(Kdd) apatite-rich beforiste(Mcb2)	130.0-131.0m black hard dolerite dyke 131.0-132.8m very light gray beforisite with apatite, sulfide, phlogopite	0 0	6-129(G,W)	129.0	129.5	0.5
135	L L L L L #4#4#4#4# #4#4#4#4# #4#4#4#4#	dolerite(Kdd) apatite-rich beforiste(Mcb2)	132.8-135.5m black hard dolerite dyke 135.5-136.8m very light gray beforisite with apatite, sulfide, phlogopite	0 0	6-135(G)	135.0	135.5	0.5
140	L L L L L L L L L L L L L L L #3#3#3#3# #3#3#3#3# #3#3#3#3#	dolerite (Kdd) phlogopite-rich beforiste (Mcb2)	136.3-141.8m black hard dolerite dyke clear boundary( $<70^\circ$ ) 141.8-145.8m very light gray beforisite with phlogopite and sulfides clear boundary( $<70^\circ$ )	0 0	6-140(G) 6-142(G)	140.0 142.3	140.5 142.8	0.5 0.5
145	#3#3#3#3# #3#3#3#3# #3#3#3#3# L L L L L	dolerite(Kdd)	145.8-147.2m black hard dolerite dyke	0	6-145(G)	145.0	145.5	0.5
150	>>>> >>>> >>>>	syenite (Msu)	147.2-150.5m very light gray syenite with phlogopite and sulfides 150.5m	0	6T-4(T) 6-150(G,W)	148.7 150.0	148.8 150.5	0.1 0.5

B-6 オレンジ地域ボーリング柱状図(12)







MJNO-8

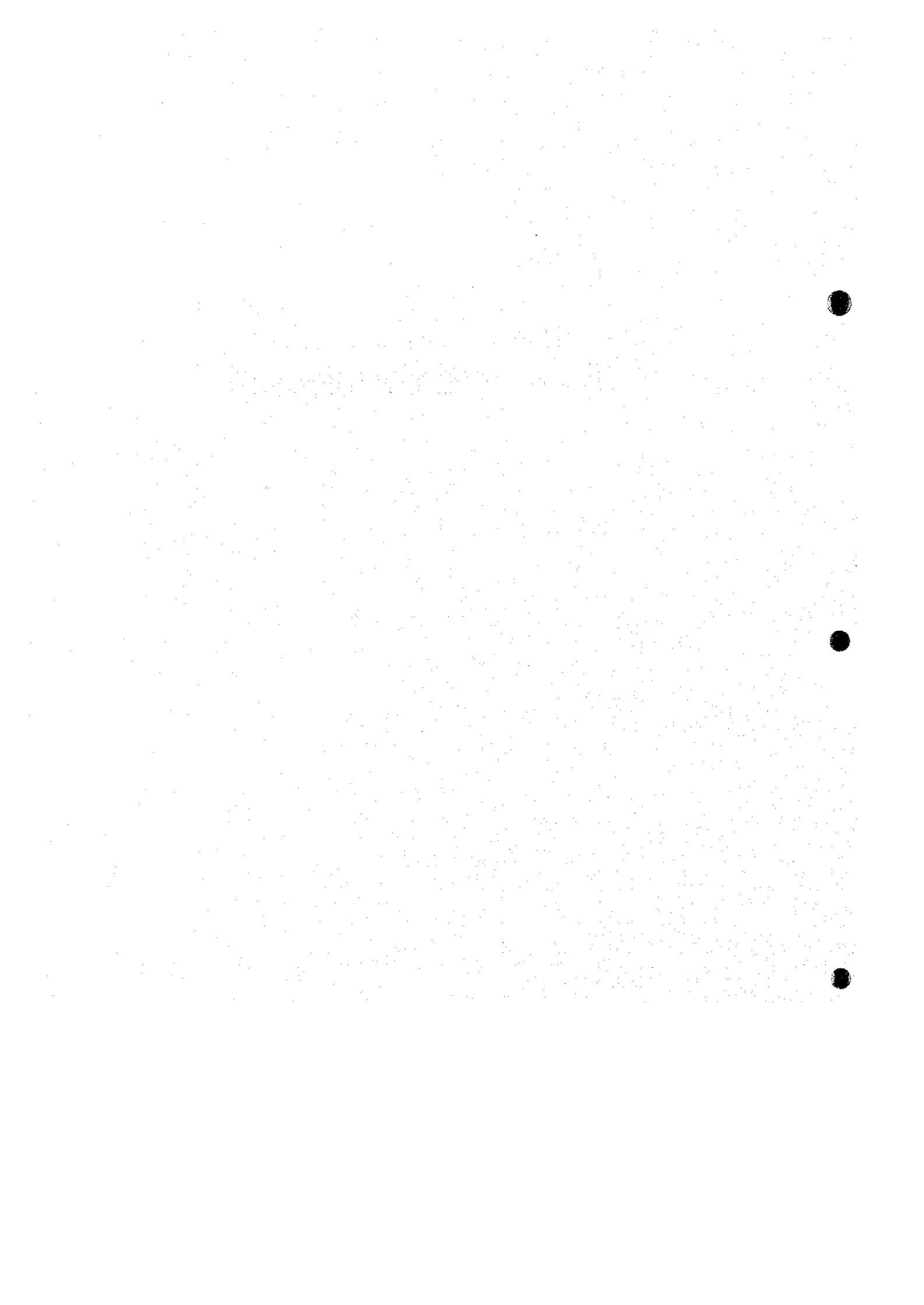
Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weathering	Sampling Number & (Type of Test)	Sampling Interval		
						From (m)	to (m)	Width (m)
5	#-#-#-#-#	weathered beforsite (Mcb2)	0.0-4.0m	1	8-0(G)	0.0	0.3	0.3
			light brownish gray beforsite(1-2mm) with dusky brown and black minerals		8-3(G)	3.0	3.5	0.5
			4.0-12.2m					
10	#-#-#-#-#	slate (Nsh)	dark green well foliated slate with abundant dark green and black metamorphic minerals	1				
15	# # # # #	beforsite (Mcb2)	12.2-17.0m clear flow banding( $\angle 0^\circ$ ) light gray(N7) to very light gray(N8) beforsite( $\phi=1$ to 2mm) with pyrite dissemination	0	8-12(G)	12.0	12.5	0.5
					8-15(G)	15.0	15.5	0.5
20	△ △ △	brecciated slate (Nsh)	17.0-27.3m	1	8-20(G)	20.0	20.5	0.5
			dark gray to black brecciated slate with very light gray(N8) beforsite networks and later stage brown to dark brown, and dark green minerals veinlets ( $\approx 5$ t 30cm)		8-25(G, W)	25.0	25.5	0.5
30	#3#3#3#3#	phlogopite-rich beforsite (Mcb2)	27.3-43.0m clear flow banding( $\angle 60^\circ$ )	0	8-30(G)	30.0	30.5	0.5
			very light gray(N8) beforsite( $\phi=1$ to 2mm) accompanied with brown to dark brown rich parts and pale to dark green rich parts in irregular by amphibole and phlogopite		8-35(G) 8X-1(X)	35.0	35.5	0.5
			weak pyrite dissemination					
40	#3#3#3#3#	phlogopite-rich beforsite (Mcb2)	43.0-56.5m	0	8-40(G)	40.0	40.5	0.5
			very light gray(N8) beforsite( $\phi=1$ to 2mm) accompanied with brown mineral rich parts and dark green rich parts in irregular by amphibole and phlogopite		8-45(G)	45.0	45.5	0.5
			weak pyrite dissemination		8-50(G, W)	50.0	50.5	0.5
55	#3#3#3#3#	phlogopite-rich beforsite (Mcb2)	56.5-61.5m	0	8-55(G) 8T-2(T) 8X-2(X)	55.0	55.5	0.5
			black to dark green dolerite		8-61(G)	60.0	60.5	0.5
			61.5-62.5m very light gray beforsite with dark brown mineral(phlogopite)					
65	#4#4#4#4#	apatite-rich beforsite (Mcb2)	62.5-70.2m	0	8-65(G)	65.0	65.5	0.5
			very light gray(N8) beforsite( $\phi=2$ to 3 mm) rich in pale green apatite and with pale to dark green, black minerals and sulfides(pyrite, pyrrhotite)		8-67(G, W)	67.3	67.8	0.5
					8-70(G)	70.0	70.5	0.5
75	#4#4#4#4#	phlogopite-rich beforsite(Mcb2)	70.2-72.5m very light gray beforsite with brown phlogopite and amphibole	0	8-75(G) 8T-3(T)	75.0	75.5	0.5
			72.5-90.5m					
			very light gray(N8) beforsite( $\phi=3$ to 5 mm) rich in pale green apatite( $\phi=5$ mm max 5cm) and with pale to dark green minerals and sulfides (pyrite and pyrrhotite)		8-80(G, W)	80.0	80.5	0.5
85	#4#4#4#4#	apatite-rich beforsite (Mcb2)	84.5-84.8m: dark green to black slate breccia	0	8-85(G) 8T-4(T)	85.0	85.5	0.5
					8-90(G, W)	90.0	90.5	0.5
95	#3#3#3#3#	phlogopite-rich beforsite (Mcb2)	90.5-93.8m very light gray beforsite with brown, dark green, and black minerals patches (d=10 to 50cm)	0	8-95(G)	95.0	95.5	0.5
			93.8-97.5m very light gray(N8) beforsite ( $\phi=3$ to 5mm) with pale green apatite ( $\phi=5$ mm, max 3 to 5cm) and sulfides					
100	#3#3#3#3#	phlogopite-rich beforsite(Mcb2)	97.5-99.5m very light gray beforsite with phlogopite, amphibole, magnetite	0	8-100(G, W)	100.0	105.5	0.5

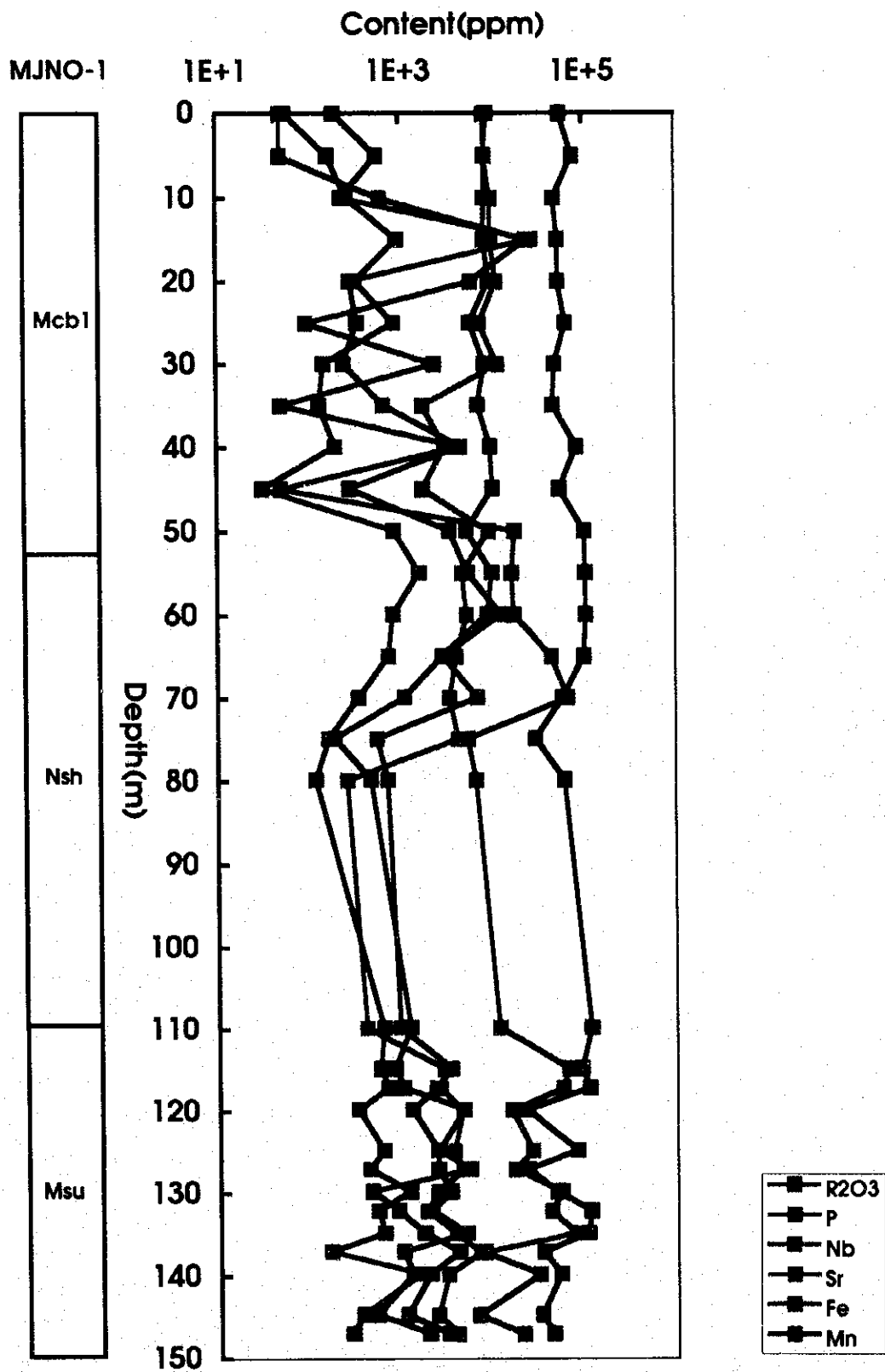
B-6 オレンジ地域ボーリング柱状図(15)

Depth (m)	Geologic Column	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number & (Type of Test)	Sampling Interval			
						From (m)	to (m)	Width (m)	
100	#4#4#4#4#	#4#4#4#4# apatite-rich beforsite (Mcb2)	99.5-137.5m						
105	#4#4#4#4#		very light gray(N8) beforsite( $\phi$ =2 to 3 mm) rich in pale green apatite and with pale to dark green, black minerals, and sulfides(pyrite, and pyrrhotite).		8-105(G)	105.0	105.5	0.5	
110	#4#4#4#4#		102.0-103.0m pale green apatite rich parts		8-110(G)	110.0	110.5	0.5	
115	#4#4#4#4#		104.0 to 106.0m sulfides (pyrite and pyrrhotite) rich parts		8-115(G)	115.0	115.5	0.5	
120	#4#4#4#4#		116.2 to 116.8m brown, dark green and black minerals rich parts	0	8-120(G, W) 8R-1(I)	120.0 120.0	120.5 120.1	0.5 0.1	
125	#4#4#4#4#				8-125(G)	125.0	125.5	0.5	
130	#4#4#4#4#				8-130(G)	129.0	129.5	0.5	
135	#4#4#4#4#				8-135(G)	135.0	135.5	0.5	
				clear contact boundary ( $\angle 60^\circ$ )		8-137(G, W)	137.3	137.8	0.5
140	#4#4#4#4#		trachyte dyke (Ktd)	137.5-145.5m light gray trachyte dyke	0	8T-5(T)	142.8	142.9	0.1
145	#4#4#4#4#		clear contact boundary ( $\angle 60^\circ$ )		8-145(G)	145.0	145.5	0.5	
150	#3#3#3#3#	phlogopite-rich beforsite (Mcb2)	145.5-150.4m very light gray beforsite( $\phi$ = 2 to 3mm max. 1 to 2cm) with phlogopite, magnetite 150.4m	0	8-150(G)	150.0	150.5	0.5	

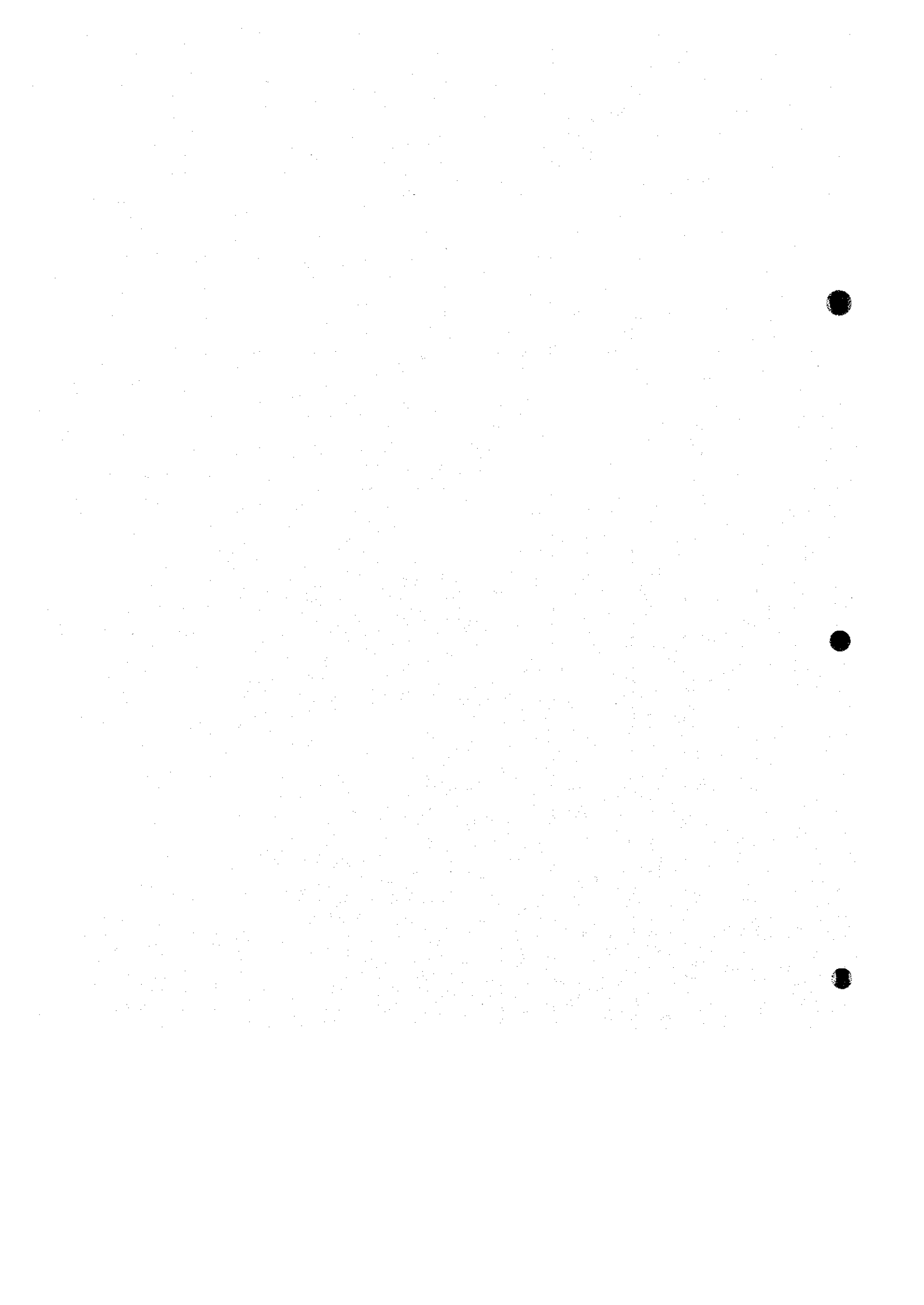
B-6. オレンジ地域ボーリング柱状図 (16)

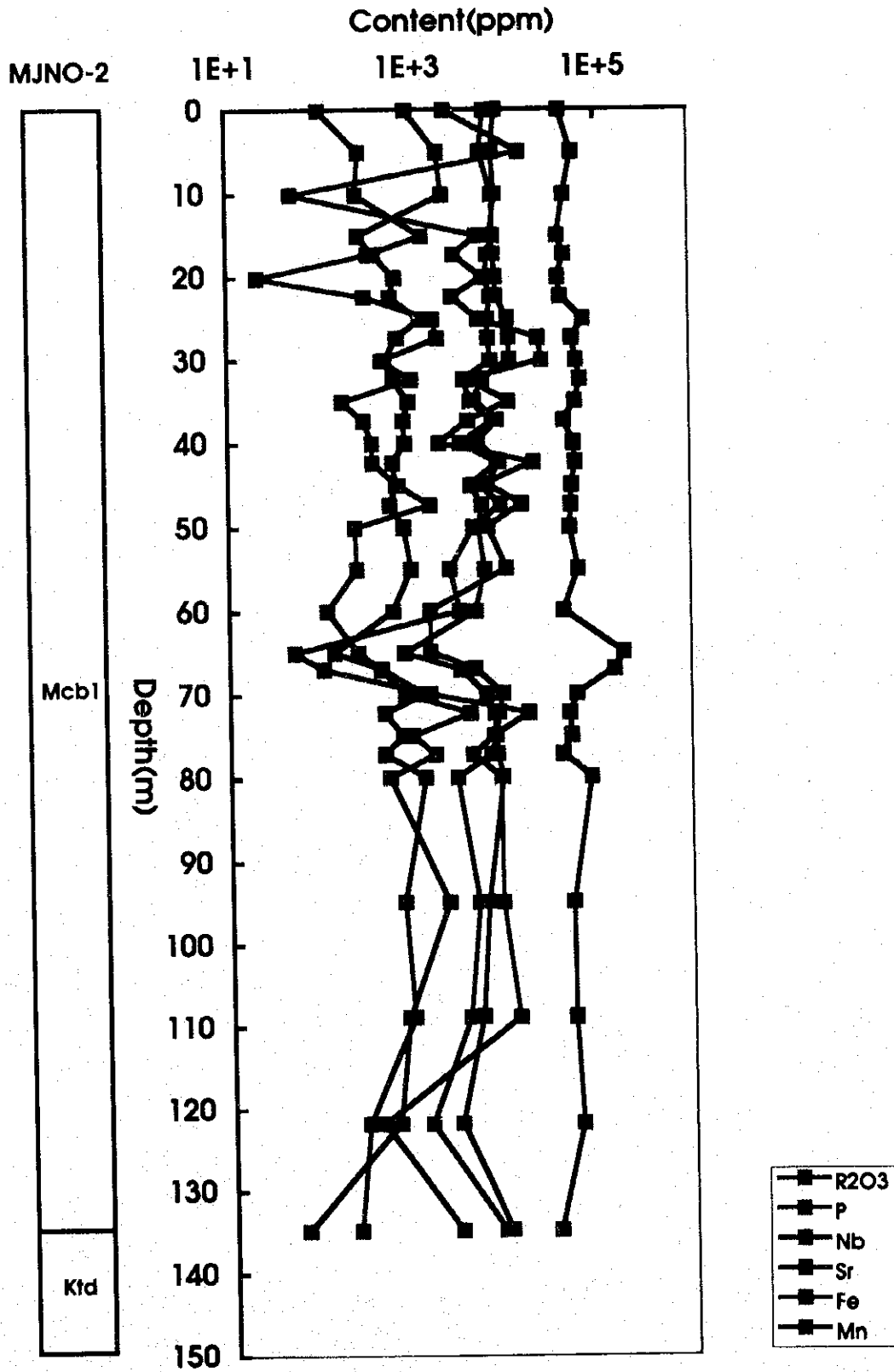
B-7 オレンジ地域  
ボーリング地化学探査解析図



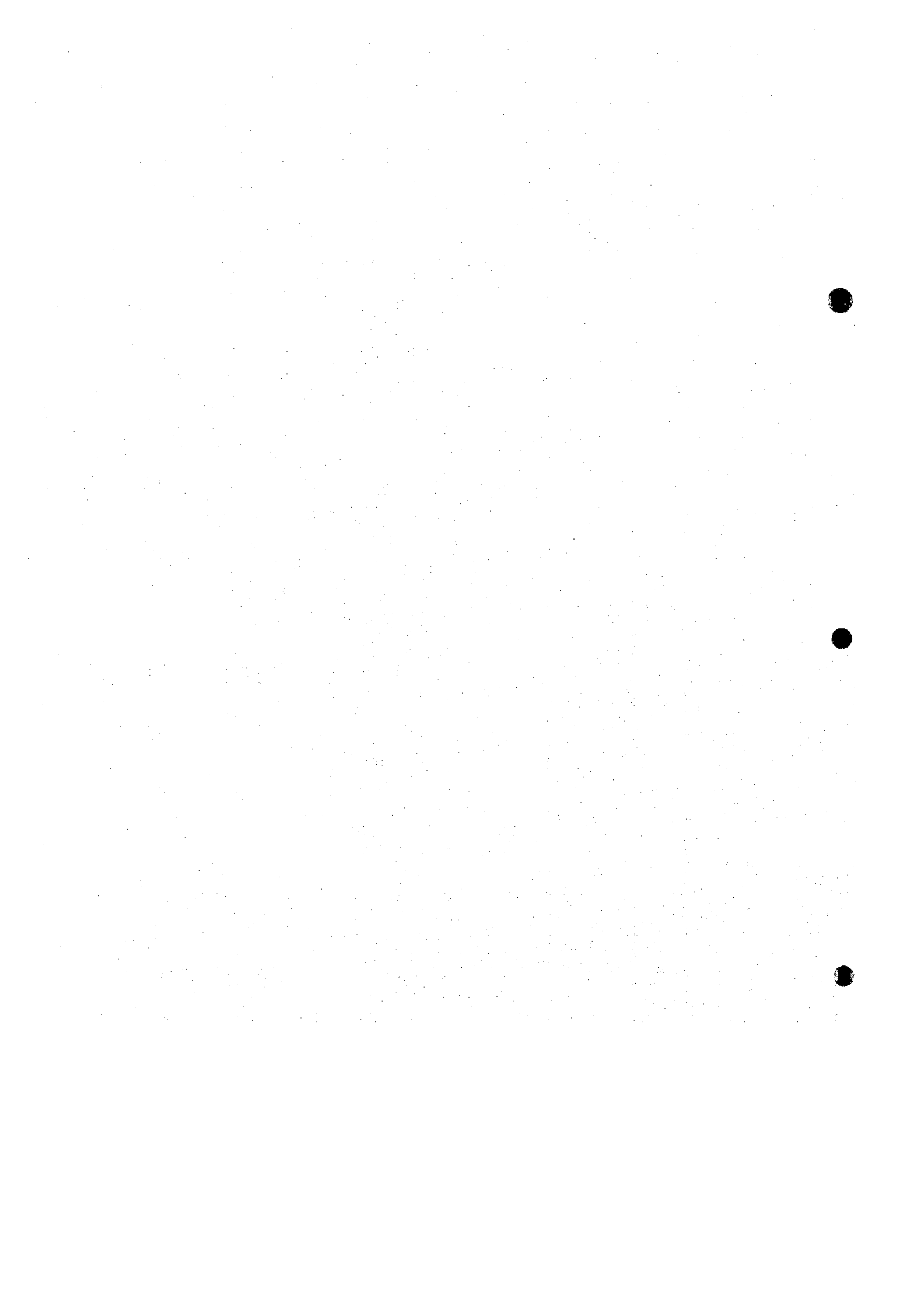


B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-1)

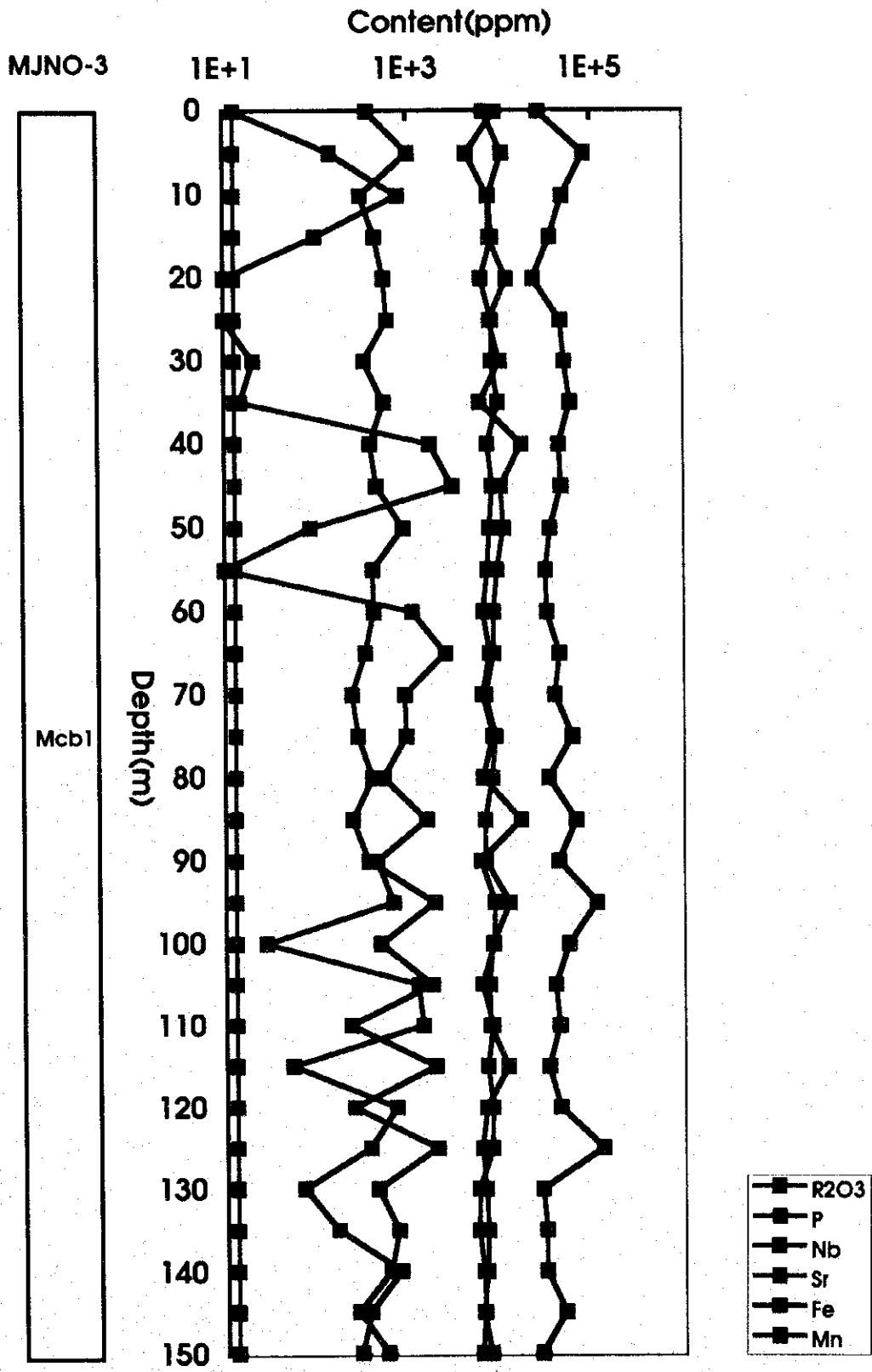




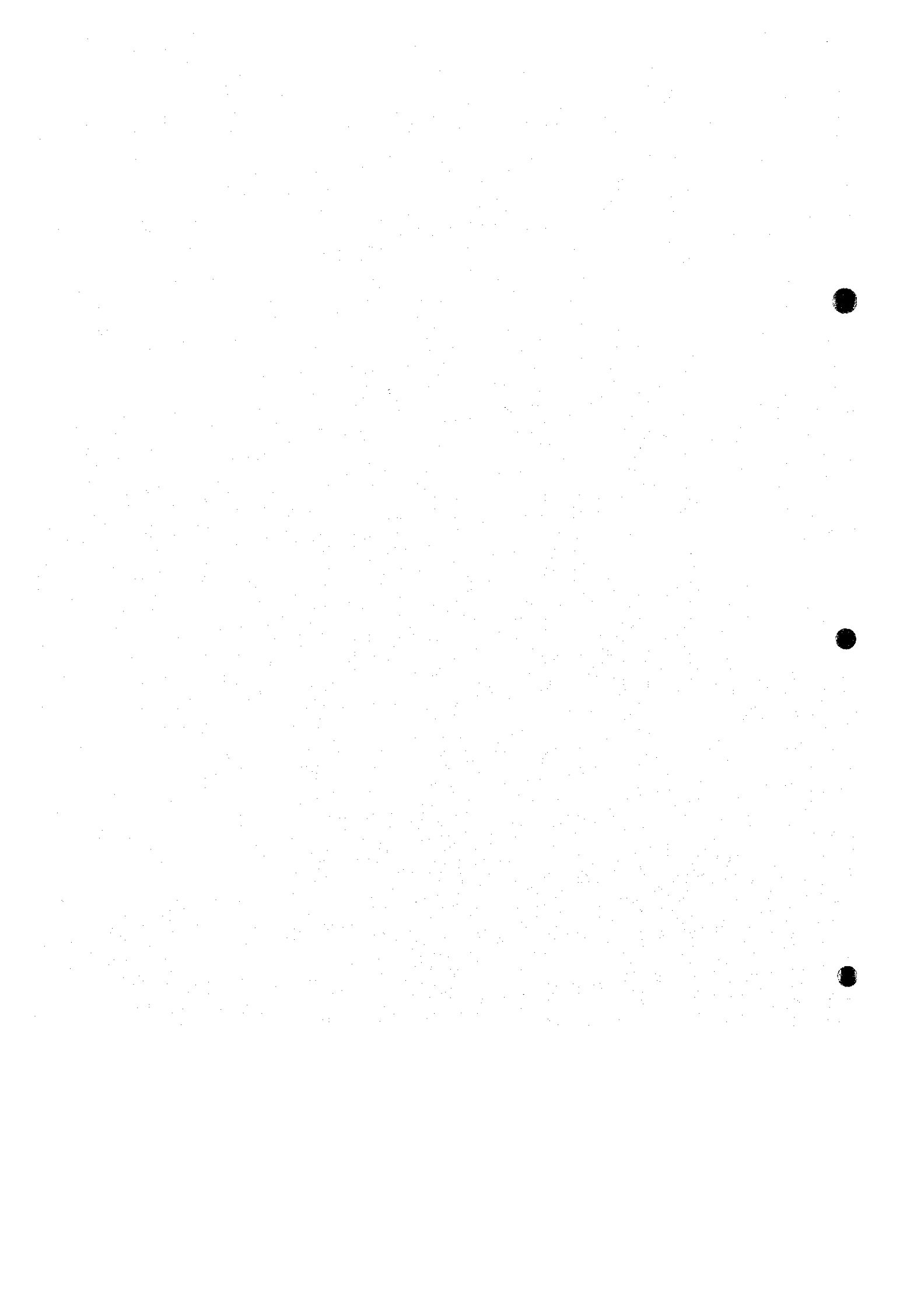
B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-2)

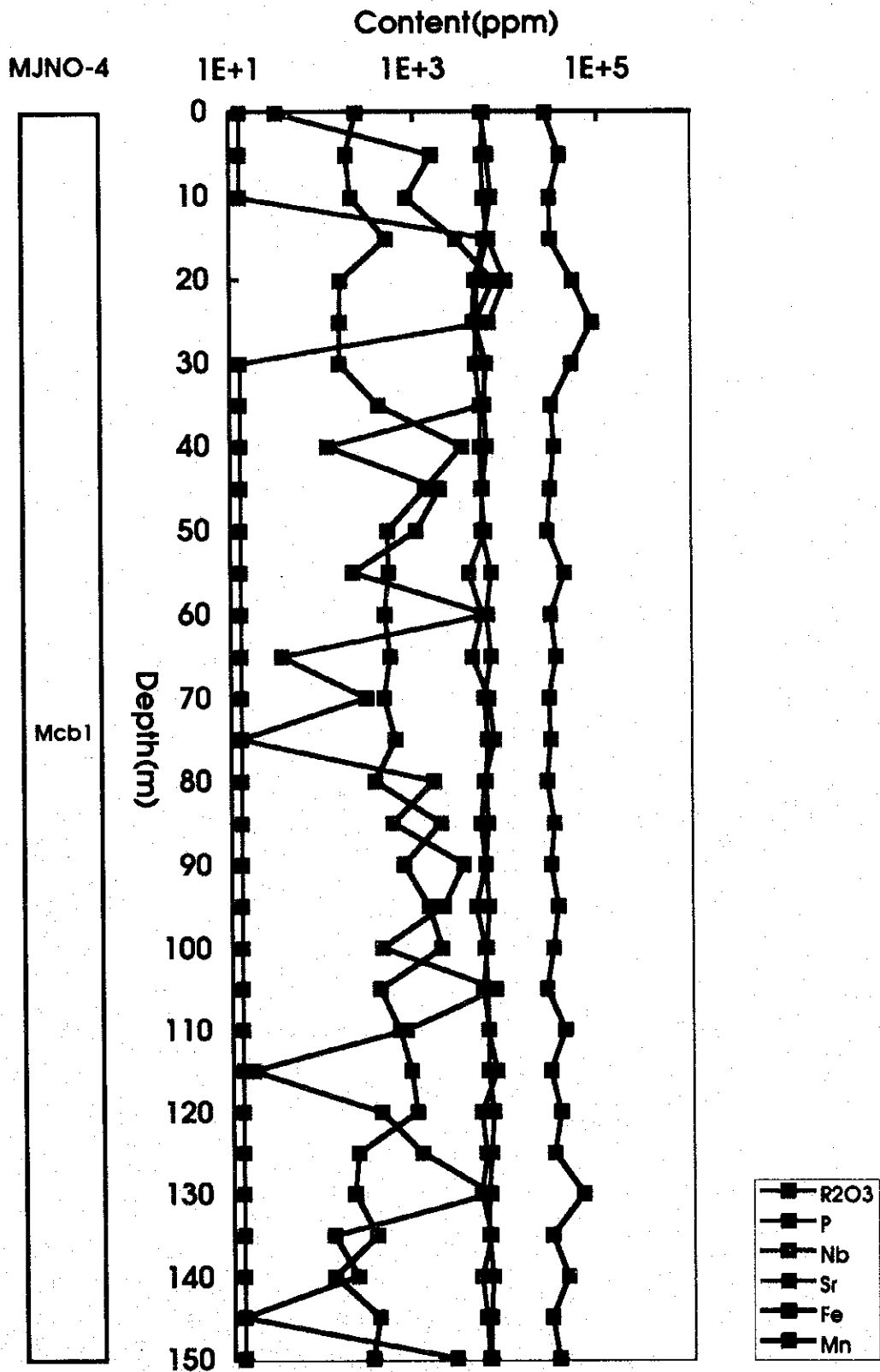




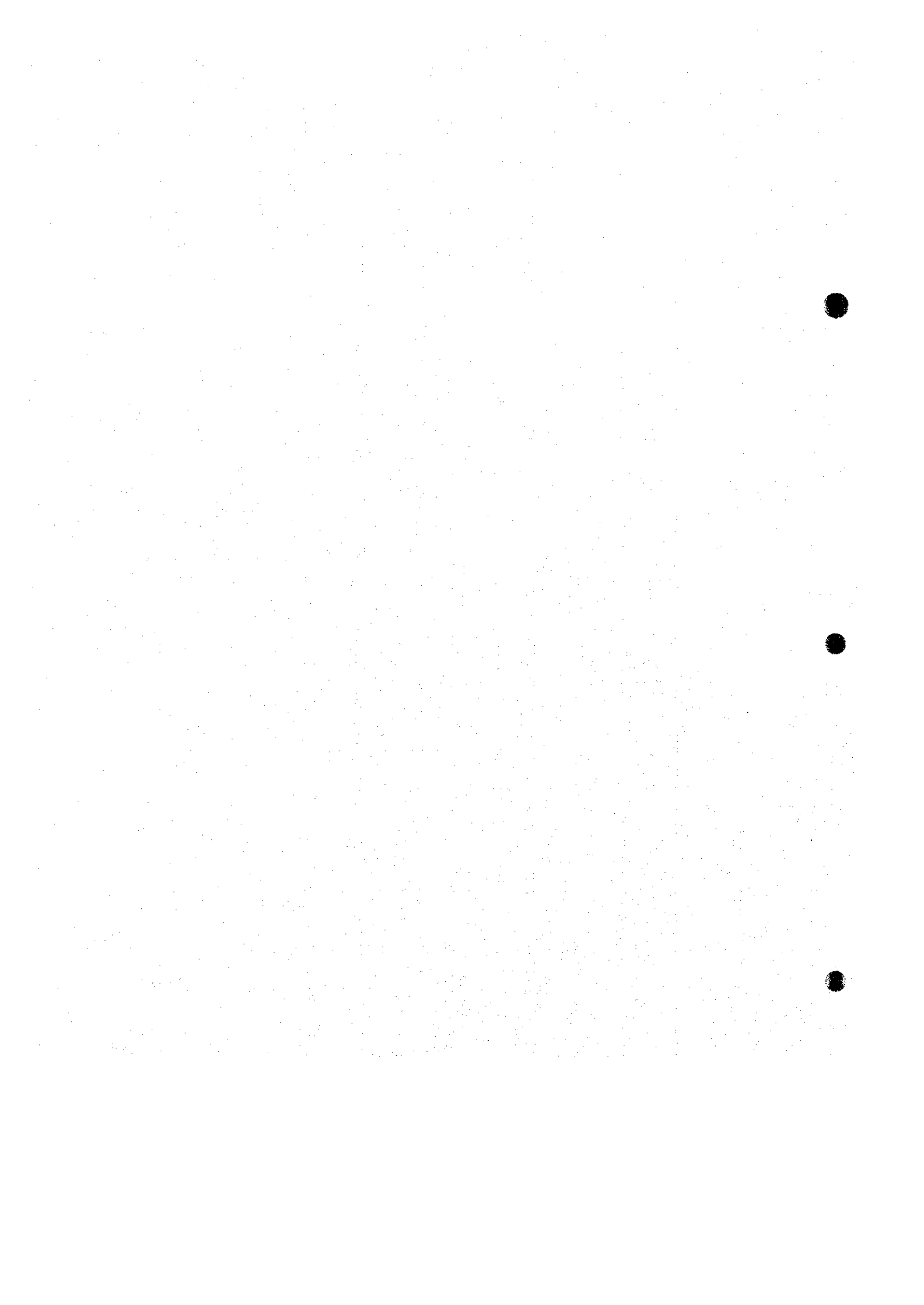


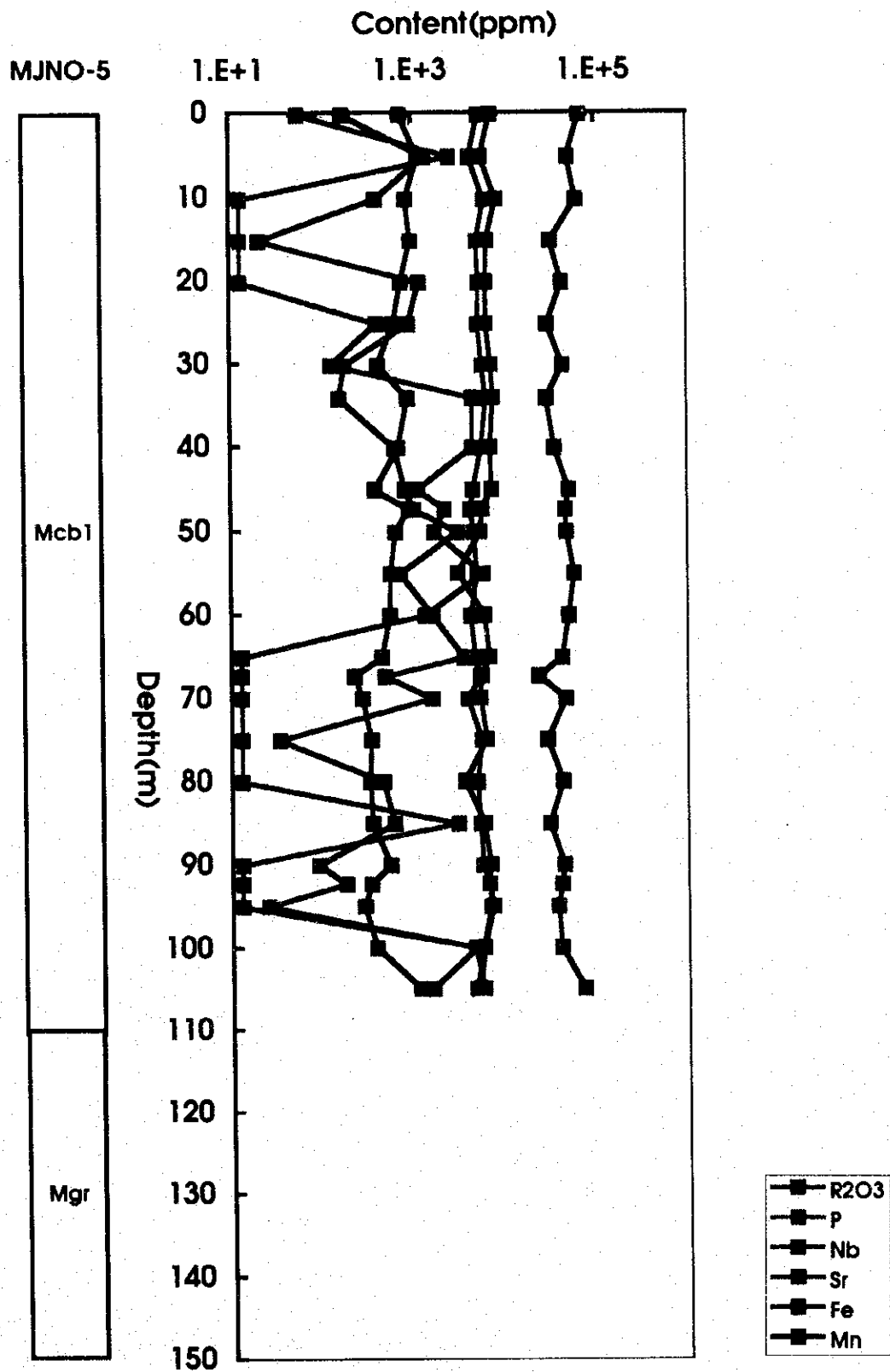
B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-3)



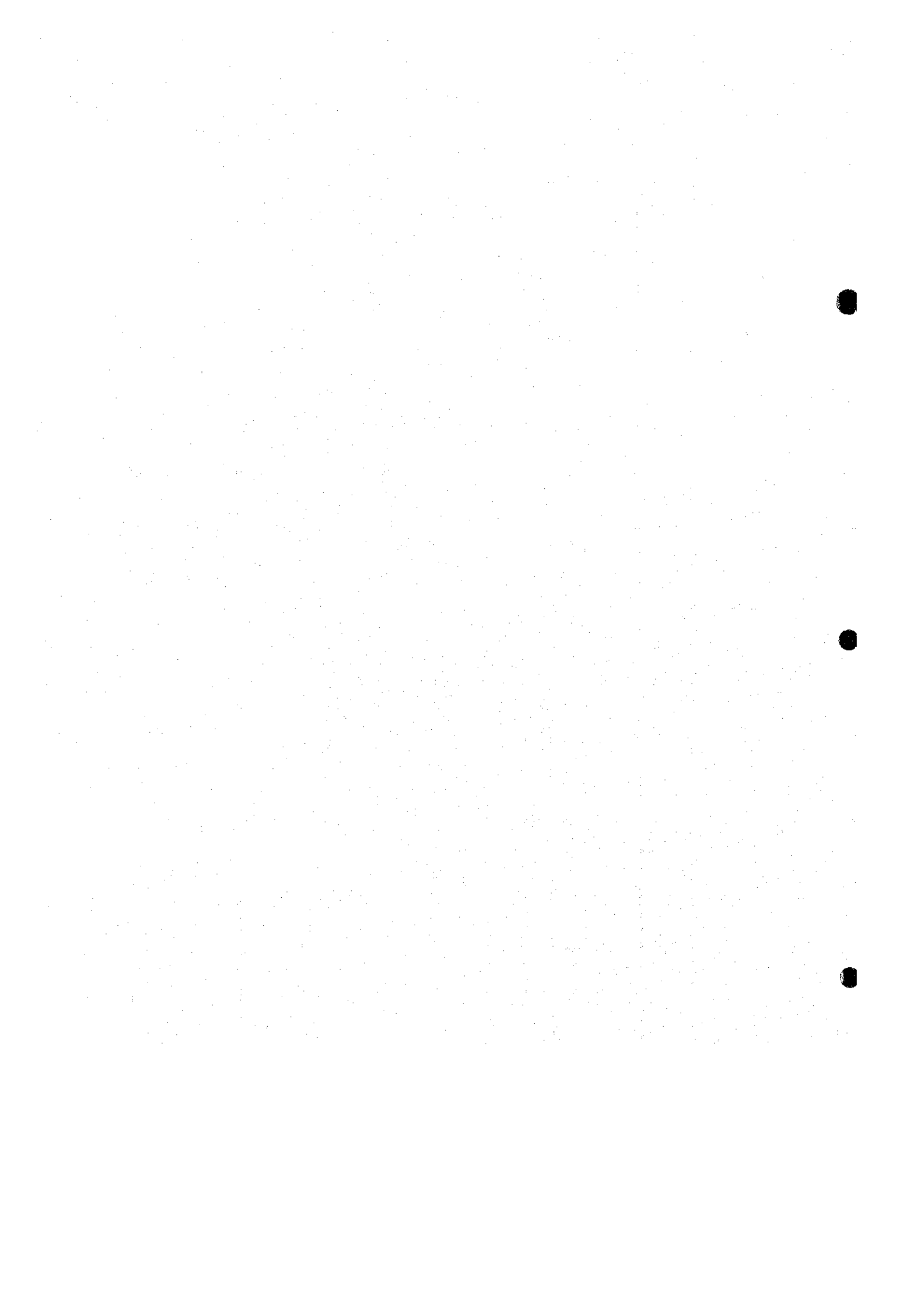


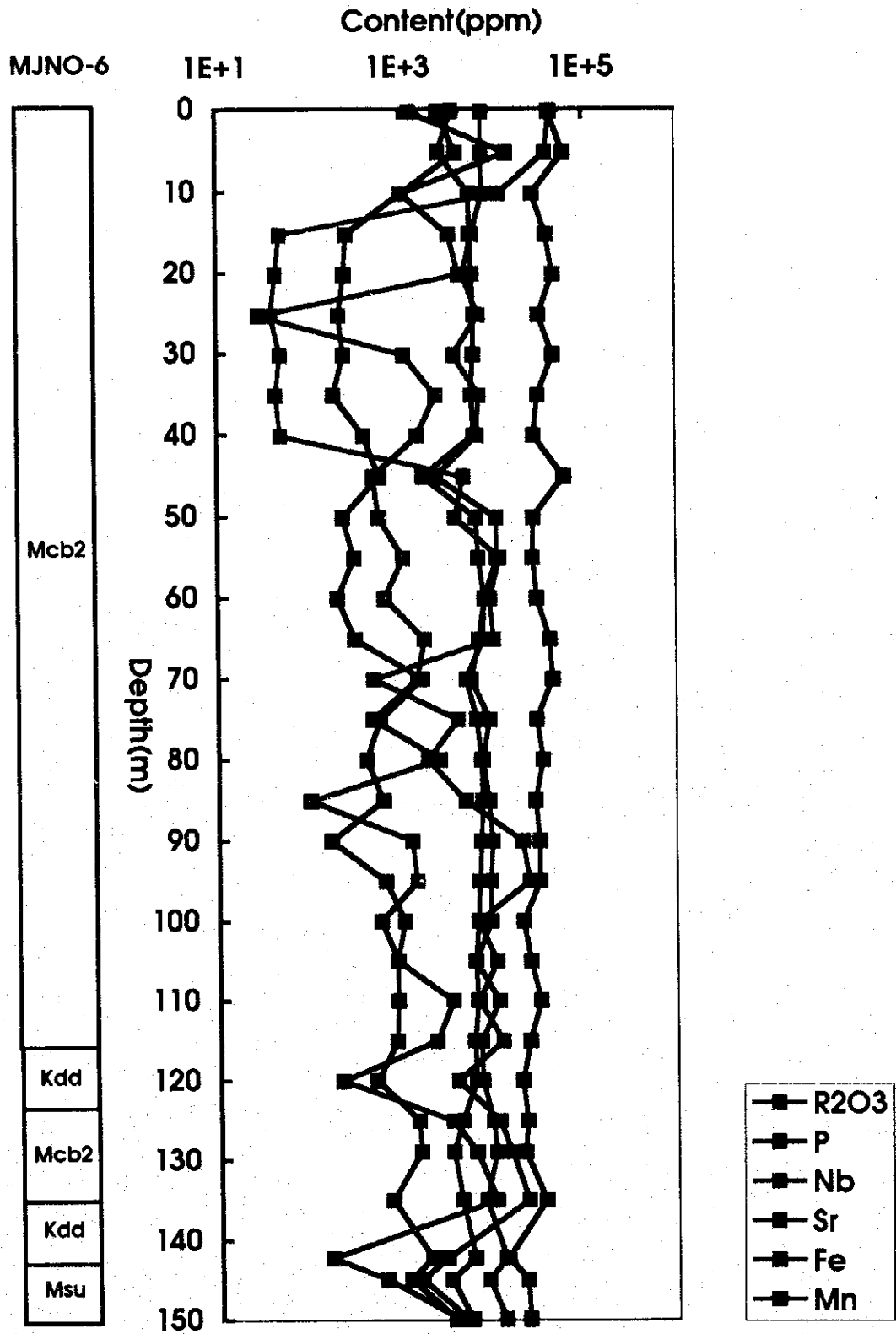
B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-4)



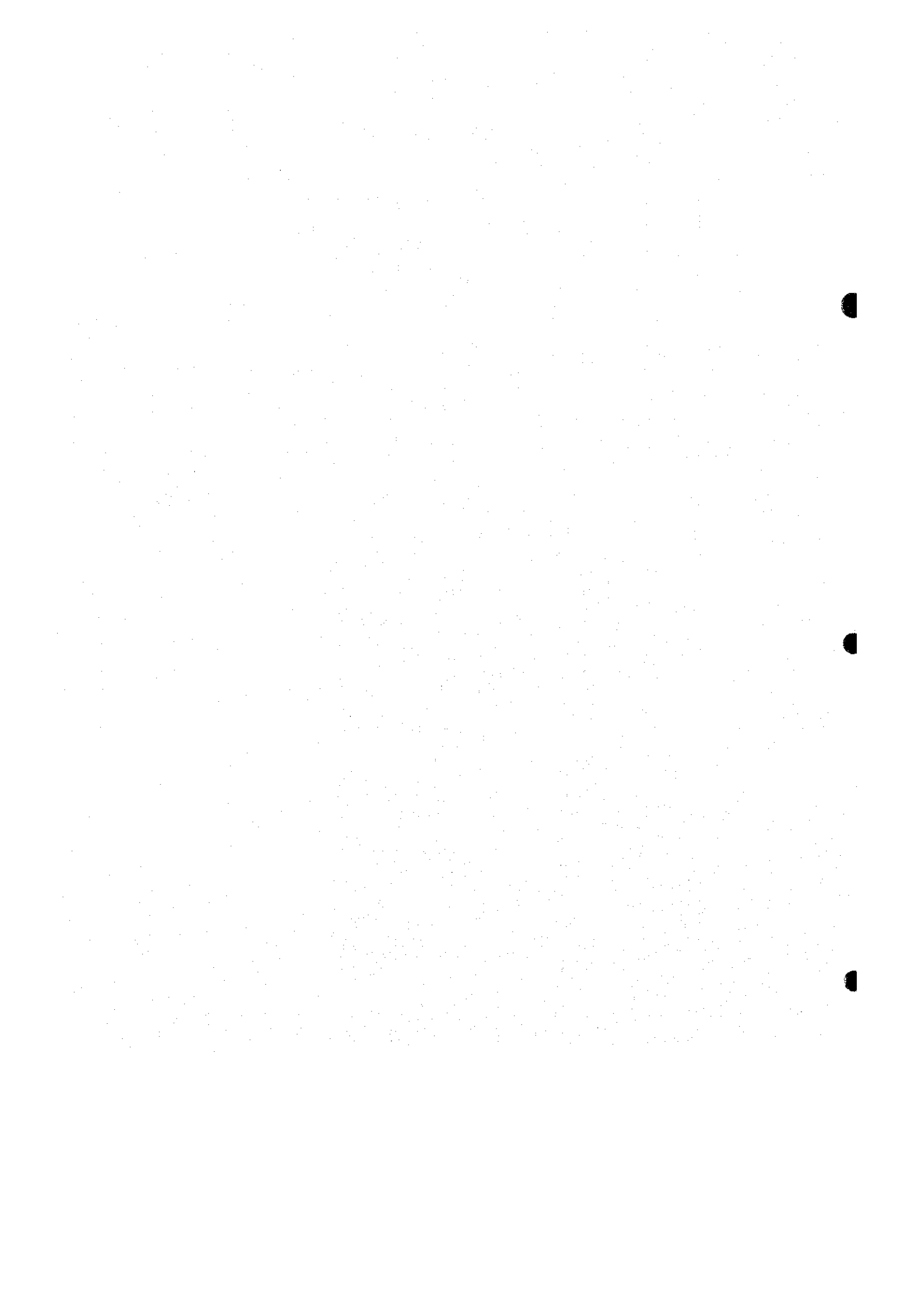


B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-5)

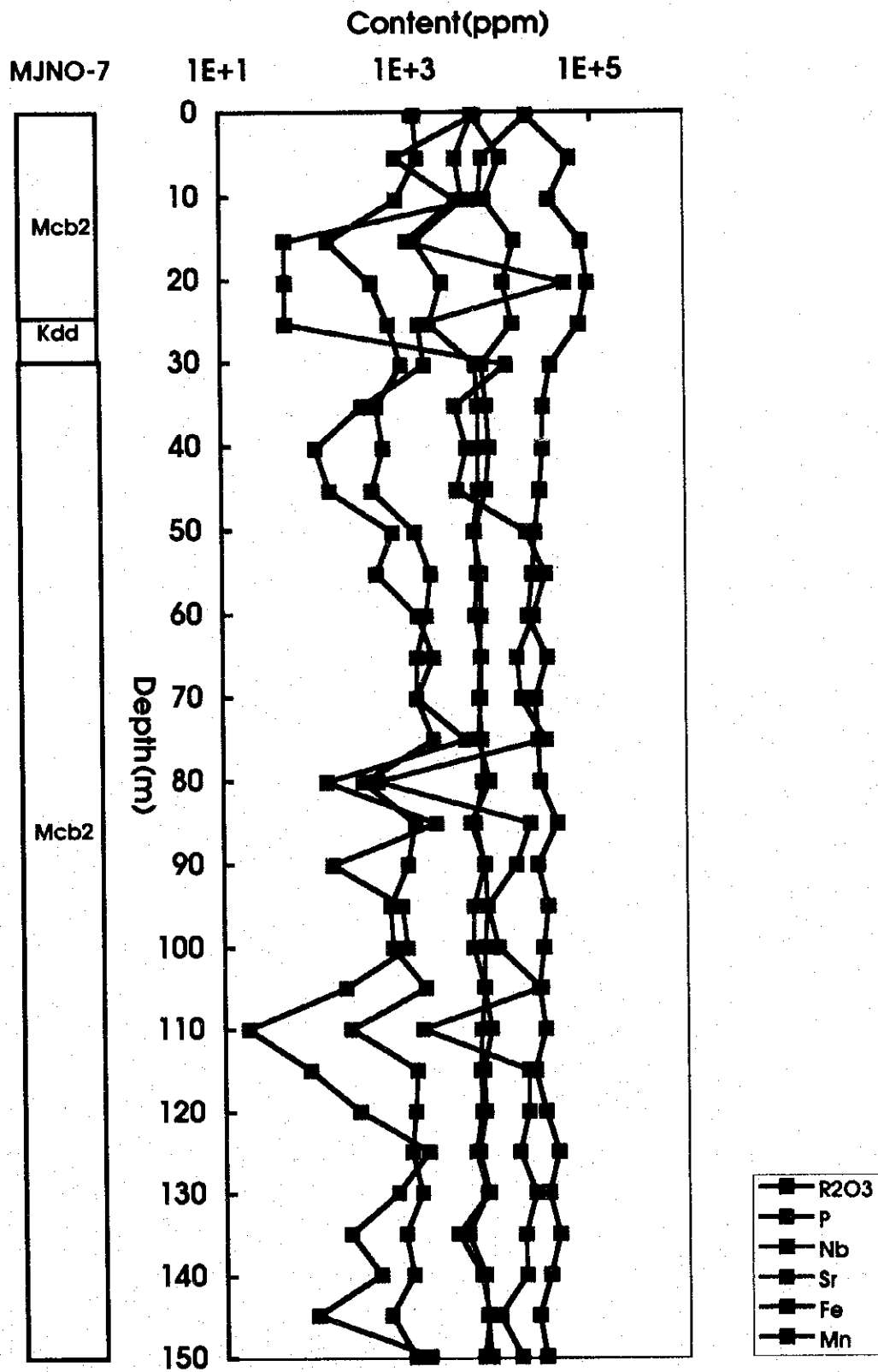




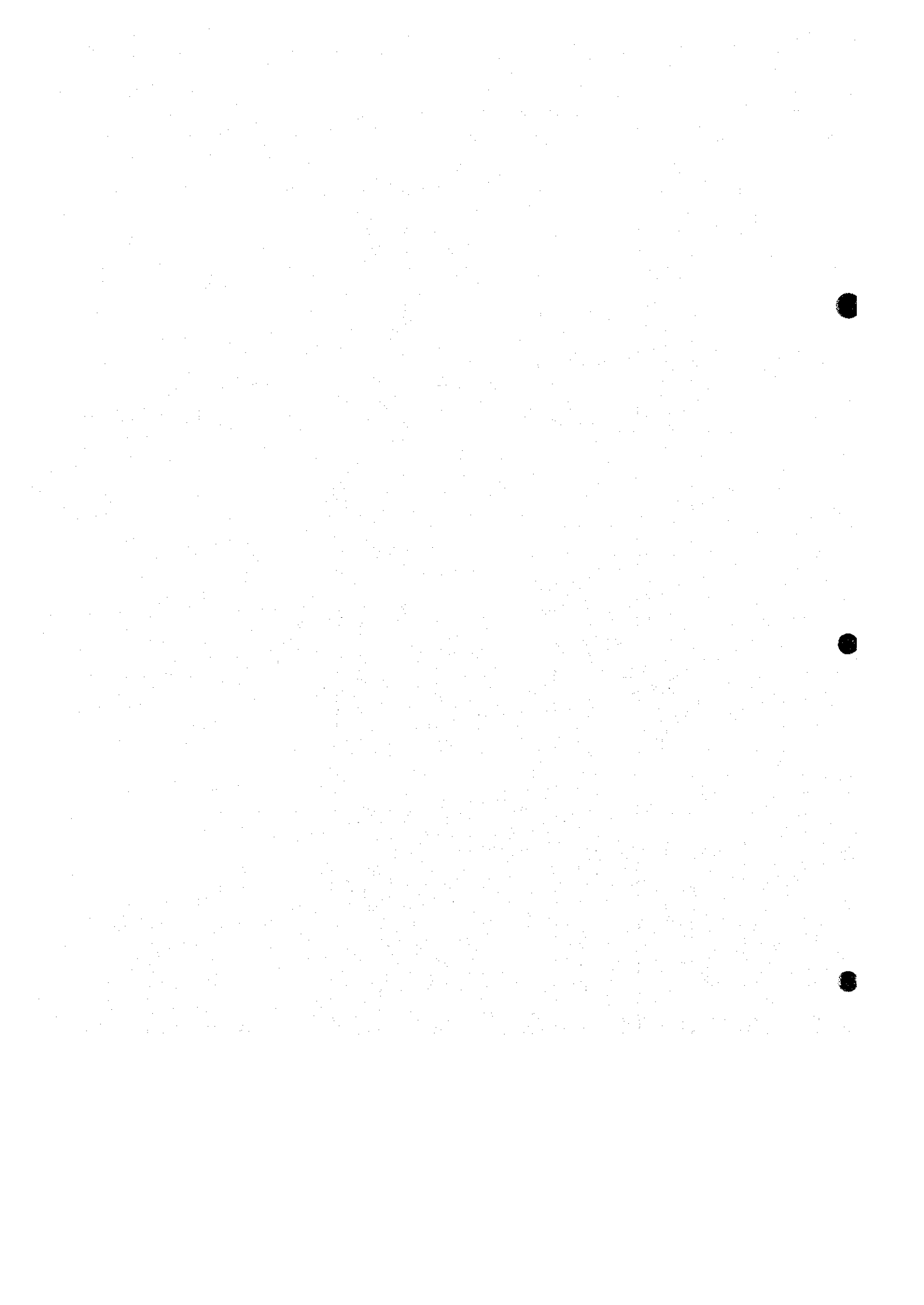
B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-6)

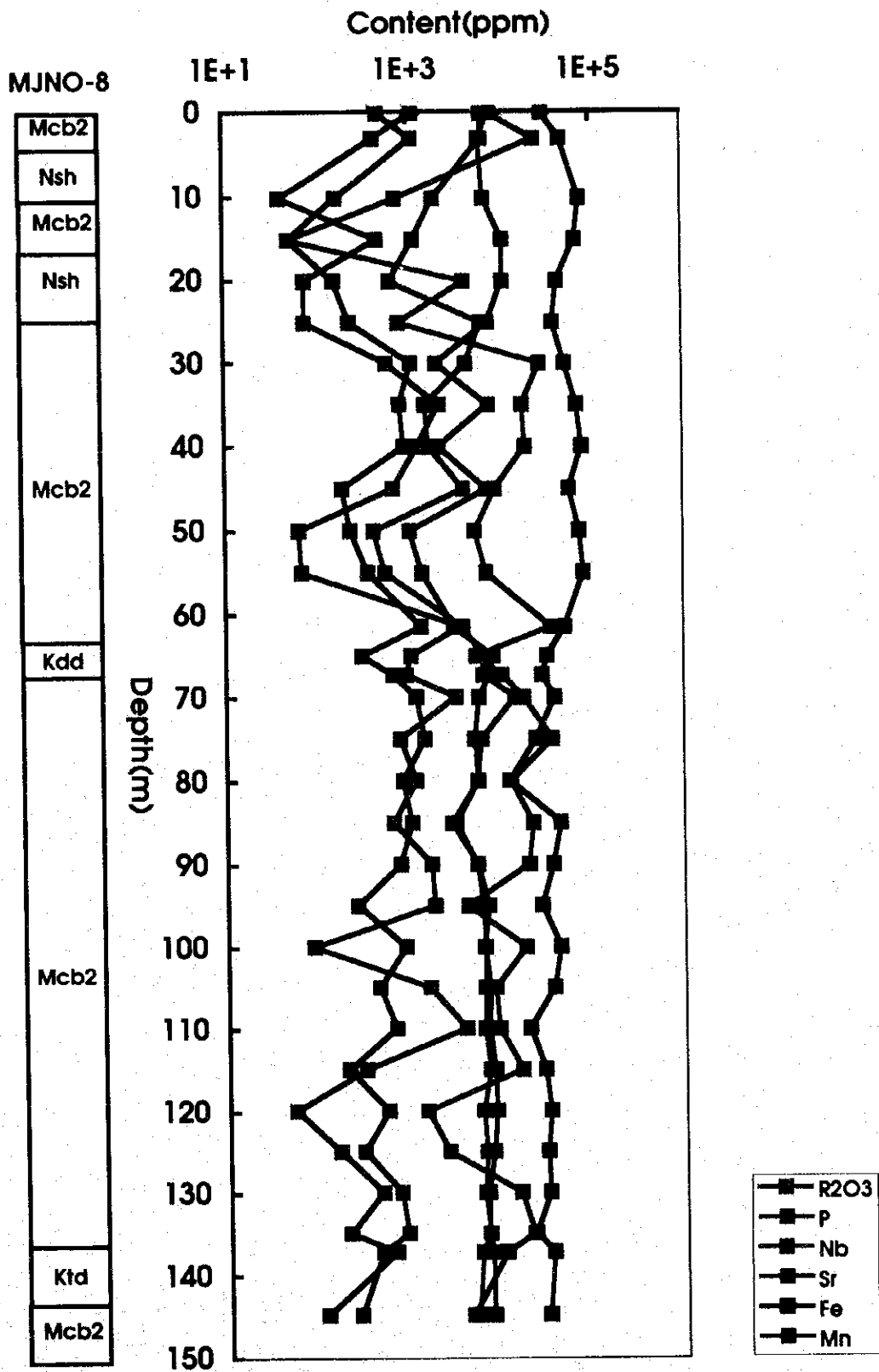




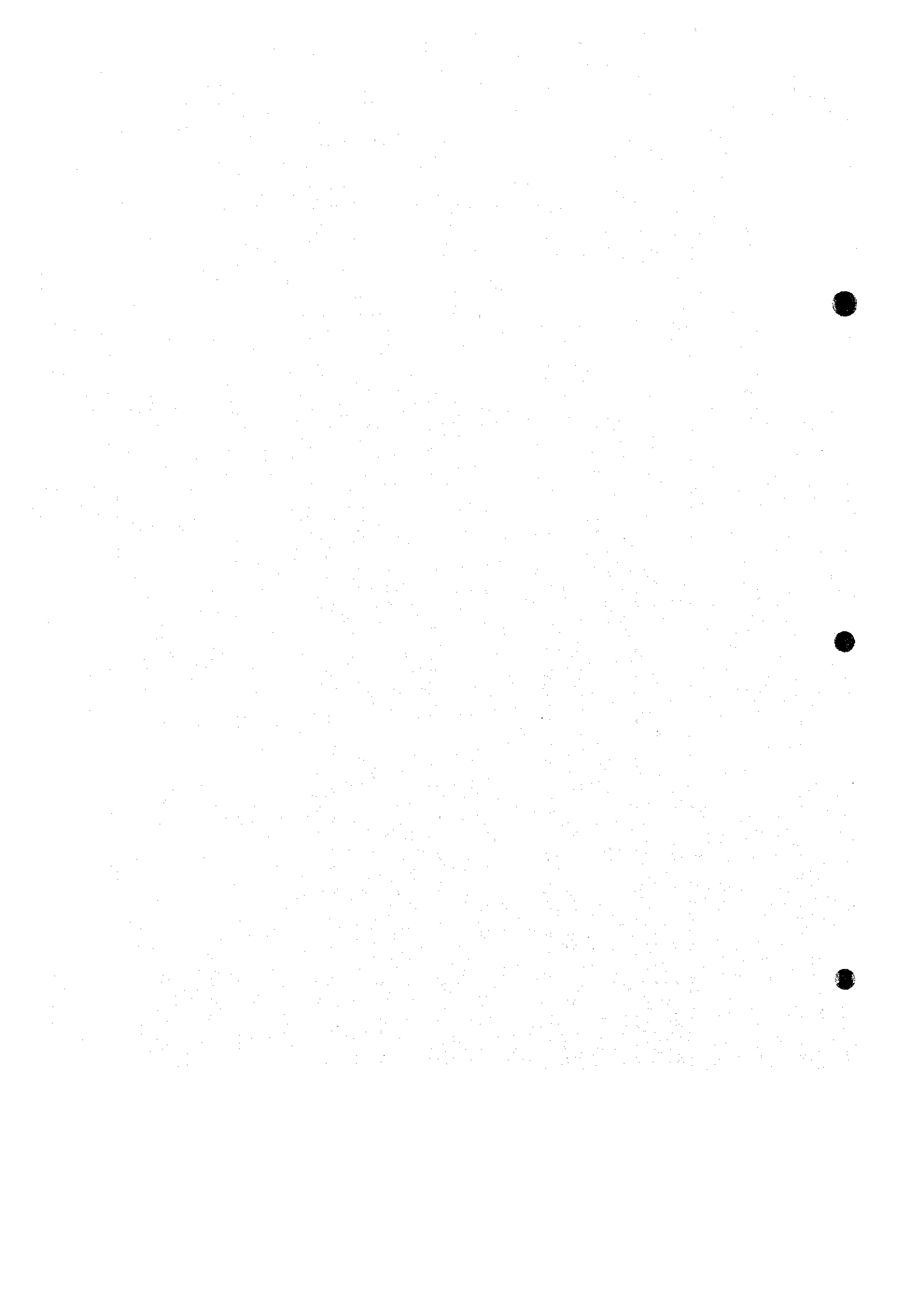


B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-7)

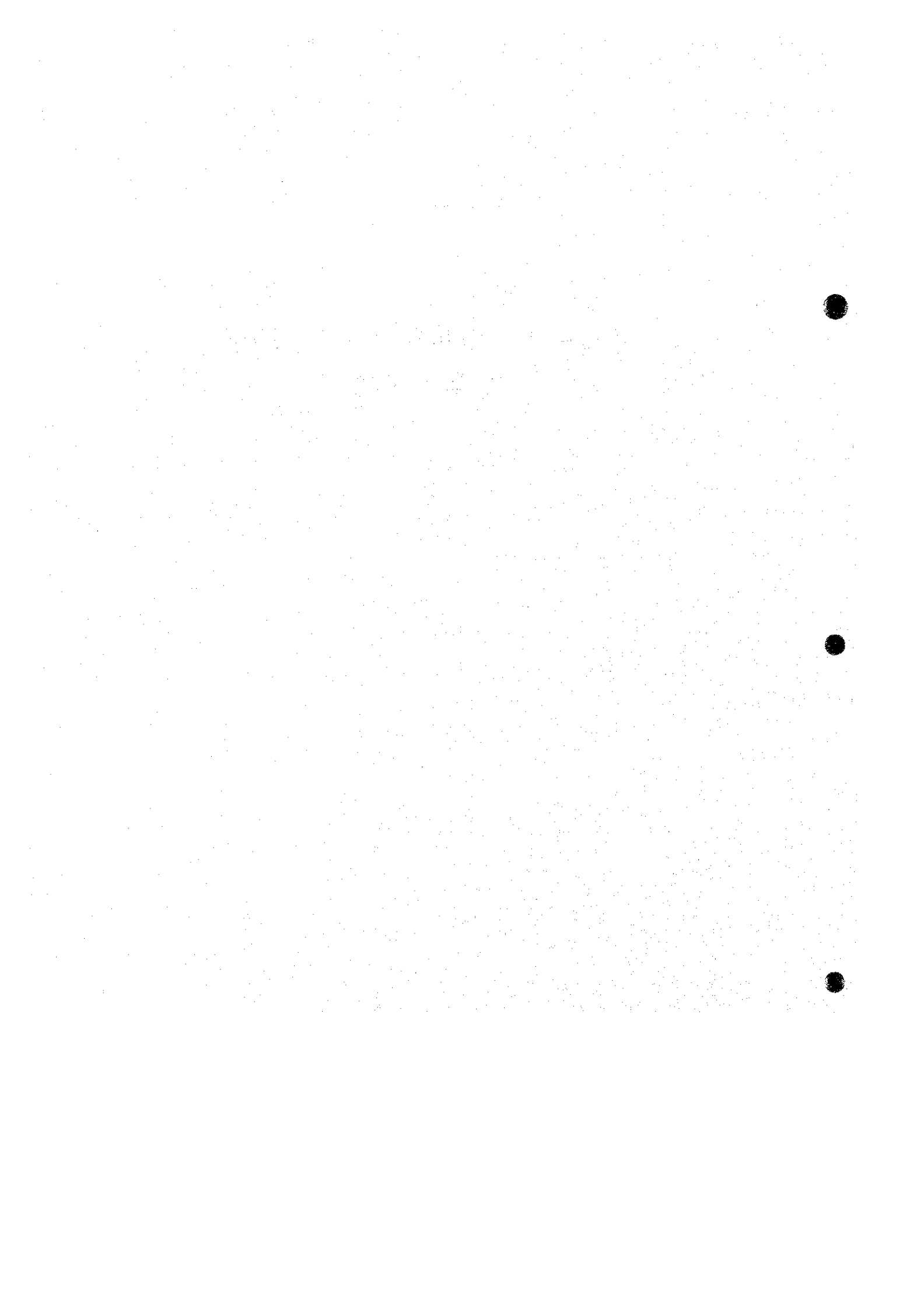


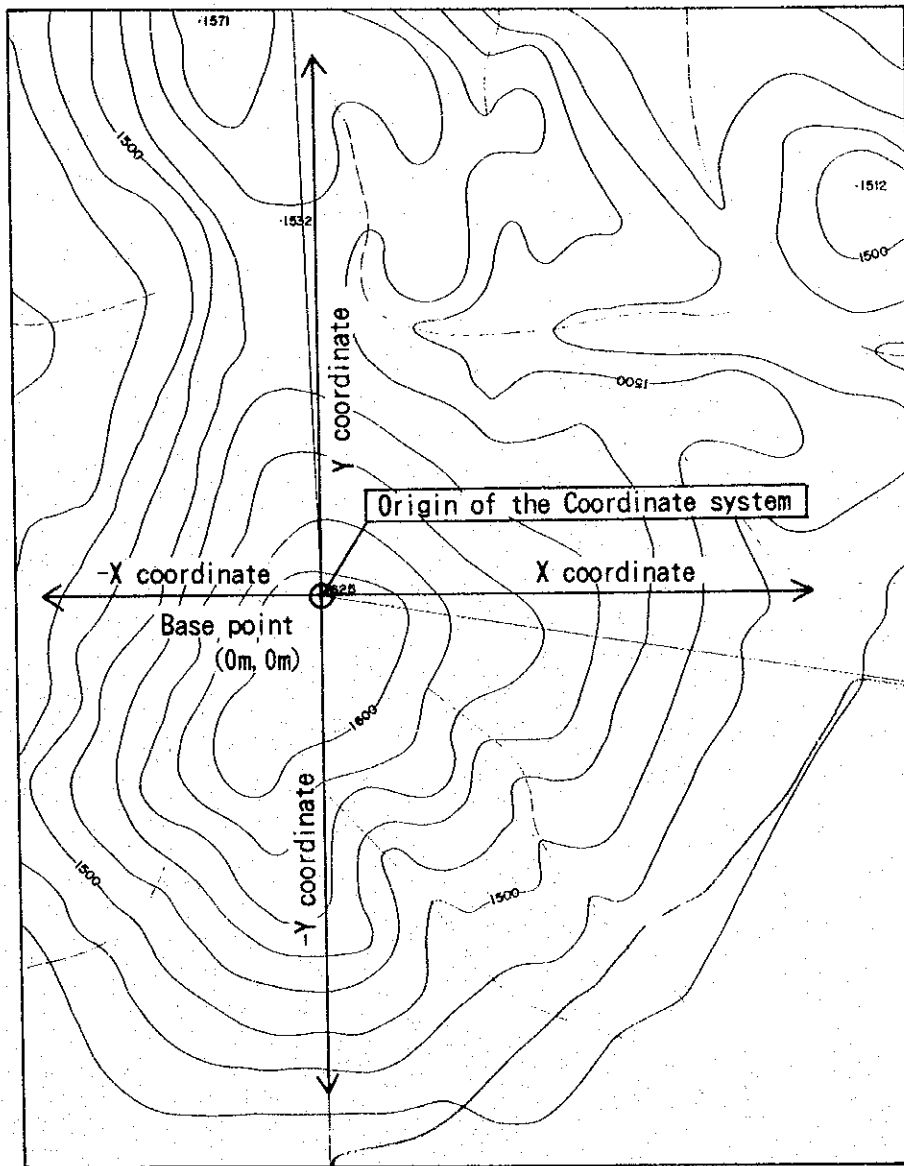


B-7 オレンジ地域ボーリング地化学探査解析図 (MJNO-8)

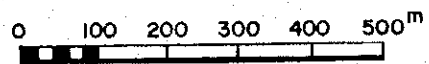


C-1 カルクフェルド地域  
試料一覧

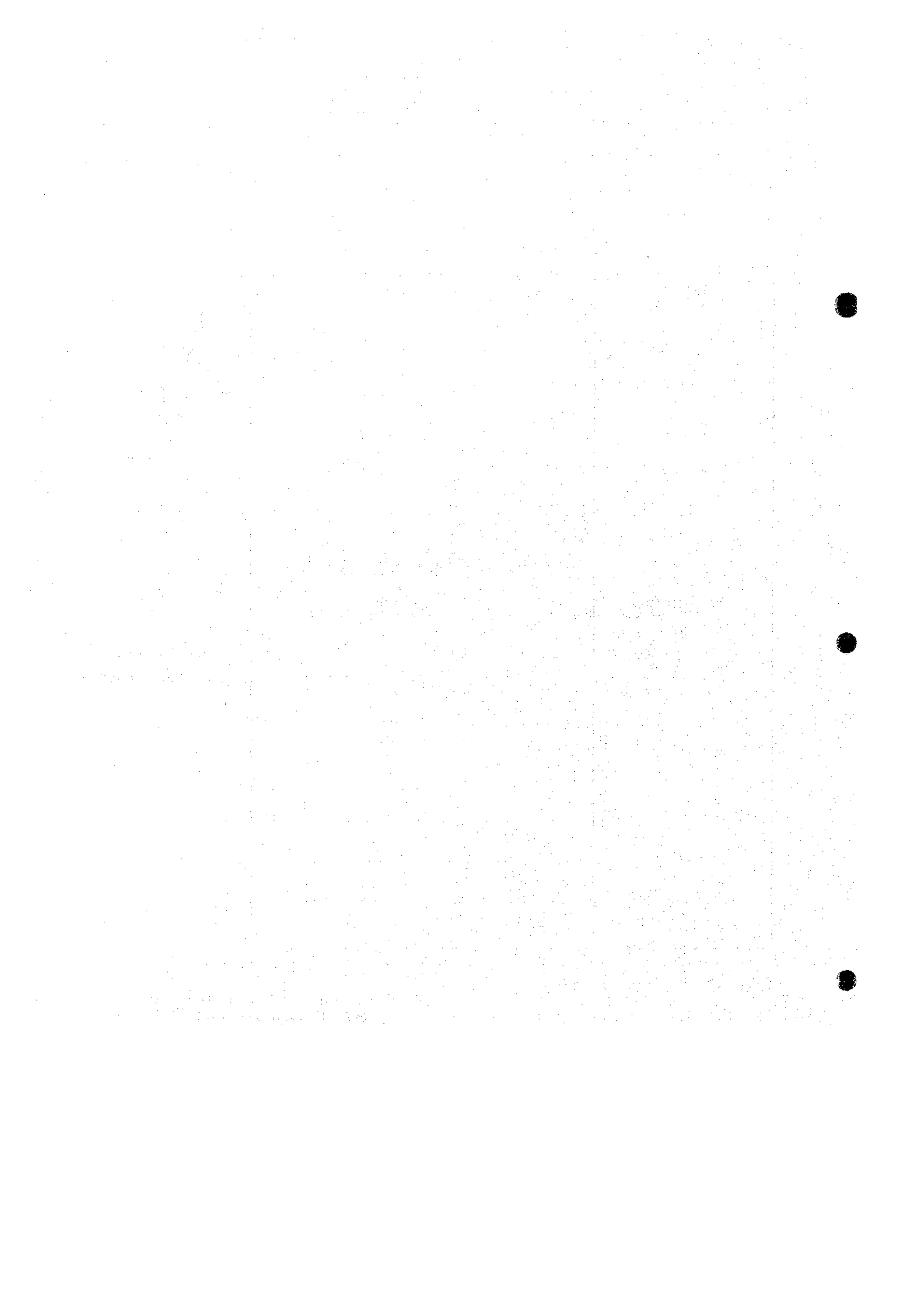




⊕ Base point for the surveying



C-1 カルクフェルド地域の地化学調査のための測量基点





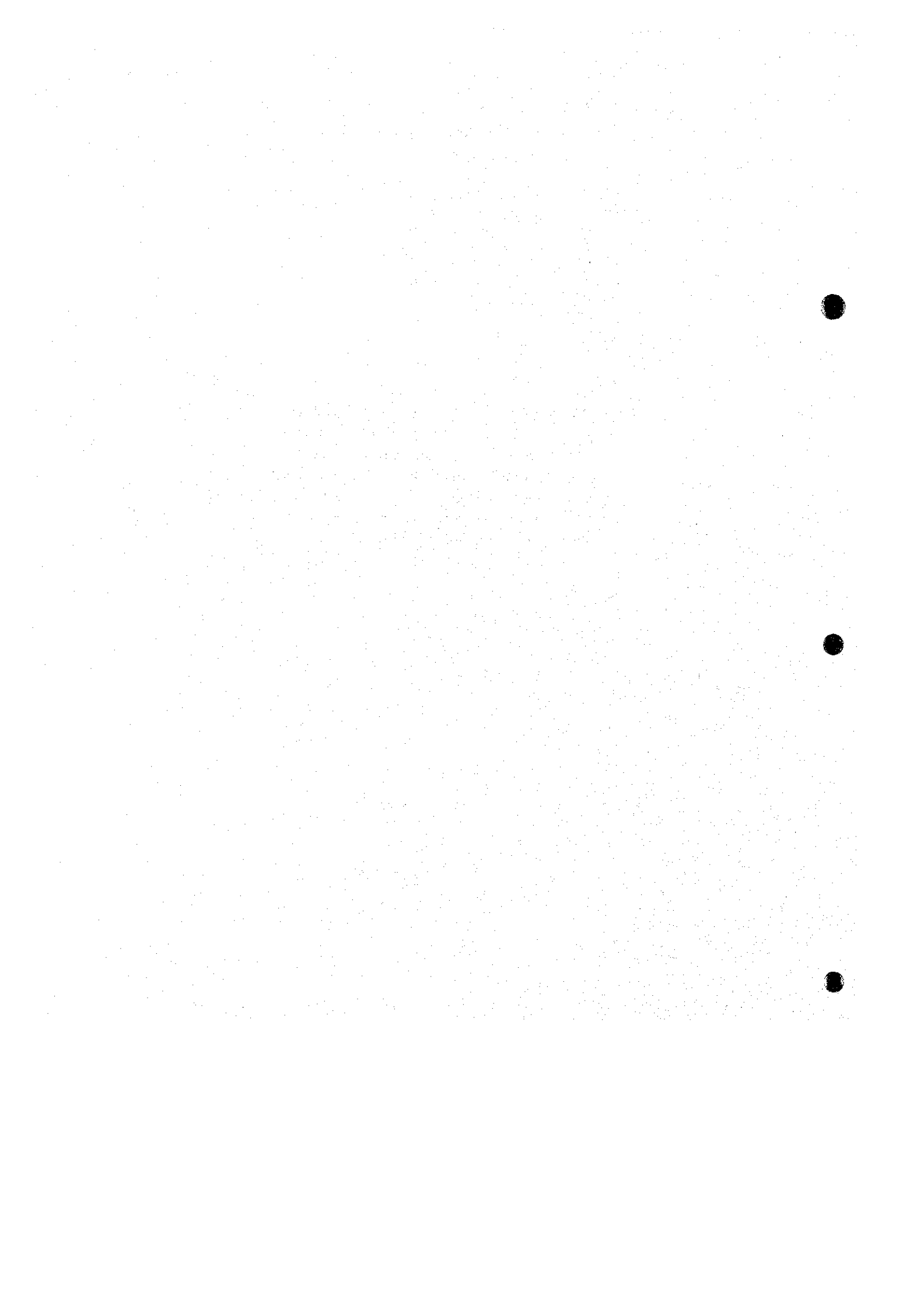
Abbreviation in the list

Minerals

Kf: potassium feldspar  
Bt: biotite  
Cal: calcite / calcitic  
Dol: dolomite / dolomitic  
Ank: ankerite / ankeritic  
Goe: goethite  
Gln: galena  
Gr: graphite

Rock code

Dd: dolerite (Post Karoo intrusion)  
Io: Iron ore (Osongombo Diatreme)  
Be: beforite (Osongombo Diatreme)  
Vb: volcanic breccia (Osongombo Diatreme)  
Gp: pegmatitic granite (Damaran Granitoid)  
Gb: biotite granite (Damaran Granitoid)  
Ma: marble (Damara sequence)



C-1 カルクフェルド地域試料一覧(1)

No.	Sample No.	X (m)	Y (m)	Rock Name	Rock Code	Analytical methods					
						Year	REE	WR	TS	PO	XR
1	Q 10	-398.3	-759.7	Marble	Ma	93	○				
2	Q 20	-298.5	-757.4	Marble, cut by Ank-Cal veins	Ma	93	○				
3	Q 30	-198.5	-755.2	Marble, with pink(Kf) minerals	Ma	93	○				
4	Q 40	-99.9	-752.9	Granite, leuco-, cut by Ank veins	Gp	93	○				
5	Q 50	20.0	-750.7	Volcanic Breccia	Vb	93	○				
6	Q 60	100.0	-745.7	Marble, cut by Goe network	Ma	93	○				
7	Q 70	200.0	-768.7	Granite, leuco-	Gp	93	○				
8	Q 80	299.0	-750.7	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
9	R 10	-400.2	-609.7	Marble, with pink(Kf) minerals	Ma	93	○				
10	R 20	-300.3	-607.4	Marble, cut by Ank-Cal veins	Ma	93	○				○
11	R 30	-200.3	-605.2	Marble, with pink(Kf) minerals	Ma	93	○				
12	R 40	-100.0	-602.9	Granite, leuco-	Gp	93	○				
13	R 50	1.0	-595.1	Granite, leuco-	Gp	93	○		○		○
14	R 60	99.6	-600.6	Granite, leuco-	Gp	93	○				
15	R 70	198.2	-588.6	Marble, cut by Ank-Cal veins	Ma	93	○				
16	R 80	299.1	-600.6	Volcanic breccia, siliceous	Vb	93	○				
17	R 90	399.1	-600.6	Pegmatite, cut by Ank-Cal veins	Gp	93	○				
18	Ra 30	-199.6	-530.2	Marble, with pink(Kf) minerals	Ma	93	○				
19	Ra 35	-152.2	-539.0	Marble, with pink(Kf) minerals	Ma	93	○				
20	Ra 40	-99.0	-529.9	Marble, with pink(Kf) minerals	Ma	93	○				
21	Ra 45	-49.5	-526.8	Volcanic breccia	Vb	93	○				
22	Ra 50	0.0	-525.6	Volcanic breccia	Vb	93	○			○	
23	Ra 55	51.0	-524.5	Volcanic breccia	Vb	93	○				
24	Ra 60	100.3	-523.4	Volcanic breccia	Vb	93	○				
25	Ra 65	150.3	-522.2	Marble	Ma	93	○				
26	S 10	-398.4	-459.7	Granite, Bt	Gb	93	○		○		○
27	S 15	-348.7	-458.6	Marble, with pink(Kf) minerals	Ma	93	○				
28	S 20	-288.1	-457.4	Volcanic breccia	Vb	93	○	○	○		○
29	S 25	-248.9	-456.3	Marble	Ma	93	○				
30	S 30	-199.1	-455.2	Marble, with pink(Kf) minerals	Ma	93	○				
31	S 35	-150.5	-449.0	Beforsite, Dol with Ank rim	Be	93	○	○	○		○
32	S 40	-99.8	-452.9	Volcanic breccia	Vb	93	○				
33	S 45	-49.9	-451.8	Beforsite	Be	93	○				
34	S 50	0.0	-450.6	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○	○	○		○
35	S 55	53.3	-449.0	Volcanic breccia	Vb	93	○				
36	S 60	103.0	-447.9	Volcanic breccia - beforite	Vb	93	○	○	○		○
37	S 65	152.7	-446.7	Marble, with pink(Kf) minerals	Ma	93	○				
38	S 70	203.3	-445.6	Marble, with pink(Kf) minerals	Ma	93	○				
39	S 80	303.9	-443.3	Marble, with pink(Kf) minerals	Ma	93	○				
40	S 90	406.8	-441.0	Marble, cut by Ank-Cal veins	Ma	93	○				
41	Sa 10	-399.9	-384.3	Marble, cut by Ank veins & granite dyke	Ma	93	○				
42	Sa 15	-341.9	-383.1	Marble	Ma	93	○				
43	Sa 20	-299.9	-382.0	Granite, Bt	Gb	93	○				
44	Sa 25	-249.9	-380.9	Granite, Bt	Gb	93	○				
45	Sa 30	-199.9	-379.7	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○		○		○
46	Sa 35	-150.0	-378.6	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
47	Sa 40	-100.0	-377.5	Beforsite - iron layers	Be	93	○	○	○	○	○
48	Sa 45	-50.0	-376.3	Beforsite, with volcanic xenolith	Be	93	○				
49	Sa 50	0.0	-375.2	Beforsite	Be	93	○		○		○
50	Sa 55	50.4	-374.1	Beforsite - volcanic breccia	Be	93	○				
51	Sa 60	101.6	-372.9	Beforsite, Dol with Ank rim	Be	93	○				
52	Sa 65	151.6	-371.8	Volcanic breccia - beforite	Vb	93	○				
53	Sa 70	201.6	-370.6	Marble, with pink(Kf) minerals	Ma	93	○				
54	T 40A	-75.0	-317.0	Iron ore	Io	93	○	○	○	○	○
55	T 21A	220.0	-685.7	Volcanic breccia	Vb	93	○	○			○
56	T 22A	-115.0	-357.5	Iron ore	Io	93	○				○
57	T 23A	-90.0	-366.5	Iron ore	Io	93	○				○
58	T 10	-399.9	-308.8	Marble	Ma	93	○				
59	T 15	-349.9	-307.6	Marble	Ma	93	○				
60	T 20	-299.9	-306.5	Marble, cut by Ank-Fe ore vein	Ma	93	○				
61	T 25	-249.9	-305.4	Beforsite, Ank-Cal	Be	93	○	○			
62	T 30	-199.9	-304.2	Beforsite, Ank-Cal	Be	93	○				
63	T 35	-150.0	-303.1	Beforsite, Ank	Be	93	○				
64	T 40	-100.0	-302.0	Beforsite, Dol	Be	93	○	○	○	○	○
65	T 45	-50.0	-300.8	Volcanic breccia	Vb	93	○				
66	T 50	0.0	-299.7	Beforsite, with volcanic xenolith	Be	93	○				
67	T 55	42.0	-298.6	Beforsite, with volcanic xenolith	Be	93	○				
68	T 60	100.0	-297.4	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
69	T 65	150.0	-296.3	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
70	T 70	199.9	-295.2	Marble, cut by granite dyke	Ma	93	○				
71	T 80	299.9	-292.9	Marble, cut by granite dyke	Ma	93	○				
72	T 90	399.9	-290.6	Granite, leuco-	Gp	93	○				
73	T 100	499.9	-288.4	Marble, cut by Ank-Cal veins	Ma	93	○		○		○
74	Ta 25	-249.9	-230.7	Marble, cut by Ank-Cal veins	Ma	93	○				
75	Ta 30	-199.9	-229.5	Volcanic breccia / granitic rock	Vb	93	○				
76	Ta 35	-150.0	-228.4	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
77	Ta 40	-100.0	-227.3	Volcanic breccia / beforite	Vb	93	○				
78	Ta 45	-50.0	-226.1	Beforsite, Ank	Be	93	○	○	○	○	○
79	Ta 50	0.0	-225.0	Beforsite, with volcanic xenolith	Be	93	○	○	○	○	○
80	Ta 55	50.0	-223.9	Beforsite, with volcanic xenolith	Be	93	○				
81	Ta 60	100.0	-222.7	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
82	Ta 65	150.0	-221.6	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
83	Ta 70	199.9	-220.5	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
84	Ta 75	249.9	-219.3	Marble	Ma	93	○				
85	Ta 80	299.9	-218.2	Granite, leuco-	Gp	93	○				

C-1 カルクフェルド地域試料一覧(2)

No.	Sample No.	X (m)	Y (m)	Rock Name	Rock Code	Analytical methods					
						Year	REE	WR	TS	PO	XR
86	Ta 85	349.9	-217.1	Granite, leuco-	Gp	93	○				
87	U 50A	-15.0	-150.0	Beforsite	Be	93			○	○	○
88	U 10	-369.9	-159.0	Marble	Ma	93	○				
89	U 20	-299.9	-156.8	Marble	Ma	93	○				
90	U 30	-199.9	-154.5	Marble	Ma	93	○				
91	U 35	-150.0	-153.4	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
92	U 40	-100.0	-152.2	Beforsite	Be	93	○				
93	U 45	-50.0	-151.1	Beforsite, Gln bearing	Be	93	○	○	○	○	○
94	U 50	0.0	-150.0	Beforsite	Be	93	○				
95	U 55	50.0	-148.8	Beforsite	Be	93	○				
96	U 60	100.0	-147.7	Beforsite - volcanic breccia	Be	93	○	○			○
97	U 65	150.0	-146.6	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
98	U 70	199.9	-145.4	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
99	U 75	249.9	-144.3	Beforsite	Be	93	○				
100	U 80	299.9	-143.2	Granite, cut by carbonatite veins	Gp	93	○				
101	U 85	349.9	-142.0	Granite, cut by carbonatite veins	Gp	93	○				
102	U 90	399.9	-140.9	Marble	Ma	93	○				
103	U 100	499.9	-138.6	Marble	Ma	93	○				
104	Ua 30	-199.9	-79.5	Marble cut by network of Goe veins	Ma	93	○				
105	Ua 35	-150.0	-78.4	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○		○		○
106	Ua 40	-100.0	-77.2	Volcanic breccia	Vb	93	○				
107	Ua 45	-50.0	-76.1	Volcanic breccia	Vb	93	○				
108	Ua 50	0.0	-75.0	Volcanic breccia, syenitic	Vb	93	○				
109	Ua 55	50.0	-73.8	Volcanic breccia, syenitic	Vb	93	○				
110	Ua 60	100.0	-72.7	Volcanic breccia, syenitic	Vb	93	○				
111	Ua 65	150.0	-71.6	Beforsite	Be	93	○	○			
112	Ua 70	199.9	-70.4	Volcanic breccia, syenitic	Vb	93	○				
113	Ua 75	249.9	-69.3	Marble, cut by Ank-Cal veins	Ma	93	○				
114	Ua 80	299.9	-68.2	Marble, cut by Ank-Cal veins	Ma	93	○				
115	V 10	-399.9	-9.1	Marble, cut by Ank-Cal veins	Ma	93	○				
116	V 20	-299.9	-6.8	Marble, cut by Ank-Cal veins	Ma	93	○				
117	V 30	-199.9	-4.5	Marble, cut by volcanic breccia	Ma	93	○				
118	V 35	-150.0	-3.4	Marble, cut by Ank-Cal veins	Ma	93	○				
119	V 40	-100.0	-2.3	Volcanic breccia, cut by Ank-Cal veins	Vb	93	○				
120	V 45	-50.0	-1.1	Granite, leuco-	Gp	93	○				
121	V 50	0.0	0.0	Granite, Bt	Gb	93	○				
122	V 55	50.0	1.1	Granite, leuco-	Gp	93	○				
123	V 60	100.0	2.3	Granite / volcanic breccia	Gp	93	○				
124	V 65	150.0	3.4	Marble, cut by Ank-Cal veins	Ma	93	○				
125	V 70	199.9	4.5	Marble, cut by Ank-Cal veins	Ma	93	○				
126	V 75	249.9	5.7	Marble	Ma	93	○				
127	V 80	299.9	6.8	Marble, cut by Ank-Cal veins	Ma	93	○				
128	V 90	399.9	9.1	Marble	Ma	93	○				
129	V 100	499.9	11.3	Marble	Ma	93	○				
130	W 10	-405.3	140.4	Marble	Ma	93	○				
131	W 20	-305.3	142.7	Marble	Ma	93	○				
132	W 30	-205.4	145.0	Marble	Ma	93	○				
133	W 40	-105.4	147.2	Marble	Ma	93	○				
134	W 50	-5.4	149.5	Marble, cut by Ank-Cal veins	Ma	93	○				
135	W 60	94.6	151.8	Marble, cut by Ank-Cal veins	Ma	93	○				
136	W 70	204.5	154.0	Marble	Ma	93	○				
137	W 80	294.5	156.3	Marble	Ma	93	○				
138	W 90	394.5	158.6	Marble	Ma	93	○				
139	W 100	494.5	160.8	Marble	Ma	93	○				
140	Wa 40	-108.1	222.2	Marble	Ma	93	○				
141	Wa 45	-58.1	223.3	Granite, leuco-	Gp	93	○				
142	Wa 50	-8.1	224.4	Marble, Gr	Ma	93	○				
143	Wa 55	42.8	223.8	Marble, Gr	Ma	93	○				
144	Wa 60	94.6	223.2	Marble, Gr	Ma	93	○				
145	X 20	-310.7	292.2	Marble	Ma	93	○				
146	X 30	-210.8	294.4	Marble	Ma	93	○				
147	X 40	-110.8	296.7	Marble	Ma	93	○				
148	X 45	-60.8	297.8	Marble, cut by Ank-Cal veins	Ma	93	○				
149	X 50	-10.8	299.0	Marble, Gr, dolomitic	Ma	93	○				
150	X 55	46.5	298.8	Marble, cut by pegmatite(Kf) dyke	Ma	93	○				
151	X 60	84.4	300.5	Marble, Gr	Ma	93	○				
152	X 70	177.8	292.6	Marble, Gr	Ma	93	○				
153	X 80	277.7	291.4	Marble, Gr	Ma	93	○				
154	X 90	378.6	290.1	Marble, Gr	Ma	93	○				
155	X 100	477.6	288.9	Marble, Gr	Ma	93	○				○
156	Xa 40	-113.5	371.5	Marble	Ma	93	○				
157	Xa 45	-63.5	372.6	Marble	Ma	93	○				
158	Xa 50	-13.5	373.8	Marble, Gr	Ma	93	○				
159	Xa 55	47.4	373.4	Marble, Gr	Ma	93	○				
160	Xa 60	96.4	372.8	Marble	Ma	93	○				
161	Y 30	-216.2	444.1	Marble	Ma	93	○				
162	Y 40	-116.2	446.4	Marble	Ma	93	○				
163	Y 50	-16.2	448.6	Granite, leuco-	Gp	93	○				
164	Y 60	81.8	447.4	Marble, Gr	Ma	93	○				
165	Y 70	180.5	446.2	Marble, partly Gr rich	Ma	93	○				
166	Y 80	279.3	445.0	Marble, Gr	Ma	93	○				
167	Y 90	379.4	443.8	Marble, Gr	Ma	93	○				
168	Y 100	479.5	442.6	Granite, pegmatitic	Gp	93	○				

C-2 カルクフェルド地域全岩化学分析・  
ノルム分析結果一覧表

Abbreviation of the normative minerals in the list

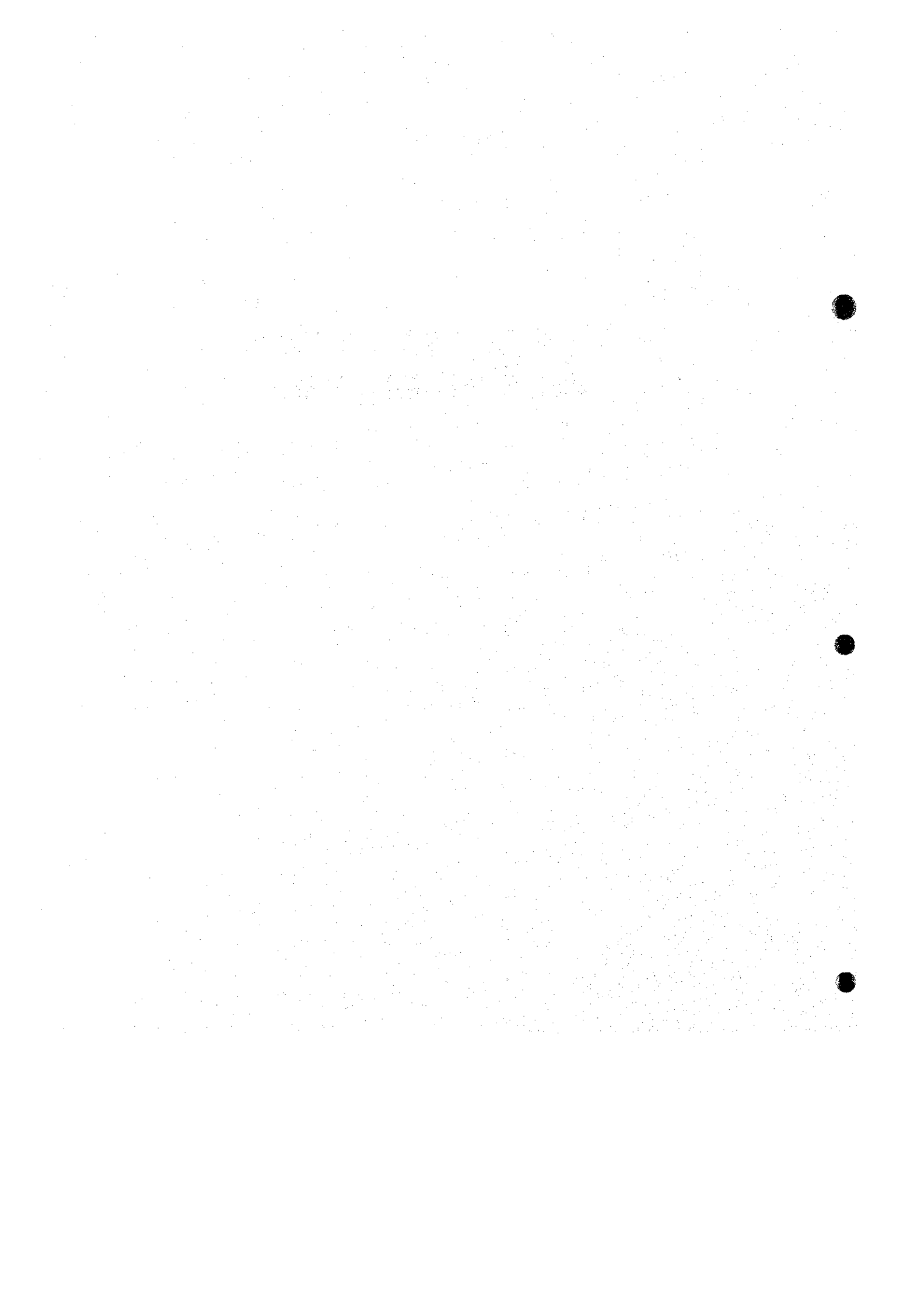
Q:	quartz	SiO <sub>2</sub>
C:	corundum	Al <sub>2</sub> O <sub>3</sub>
or:	orthoclase	K <sub>2</sub> O.Al <sub>2</sub> O <sub>3</sub> .6SiO <sub>2</sub>
ab:	albite	Na <sub>2</sub> O.Al <sub>2</sub> O <sub>3</sub> .6SiO <sub>2</sub>
an:	anorthite	CaO.Al <sub>2</sub> O <sub>3</sub> .2SiO <sub>2</sub>
lc:	leucite	K <sub>2</sub> O.Al <sub>2</sub> O <sub>3</sub> .4SiO <sub>2</sub>
ne:	nepheline	Na <sub>2</sub> O.Al <sub>2</sub> O <sub>3</sub> .2SiO <sub>2</sub>
kp:	kaliophilite	K <sub>2</sub> O.Al <sub>2</sub> O <sub>3</sub> .2SiO <sub>2</sub>
ac:	acmite	Na <sub>2</sub> O.Fe <sub>2</sub> O <sub>3</sub> .4SiO <sub>2</sub>
ns:	sodium metasilicate	Na <sub>2</sub> O.SiO <sub>2</sub>
ks:	potassium metasilicate	K <sub>2</sub> O.SiO <sub>2</sub>
cs:	calcium orthosilicate	CaO.SiO <sub>2</sub>
mt:	magnetite	FeO.Fe <sub>2</sub> O <sub>3</sub>
hm:	hematite	Fe <sub>2</sub> O <sub>3</sub>
tn:	titanite	CaO.TiO <sub>2</sub> .SiO <sub>2</sub>
pf:	perovskite	CaO.TiO <sub>2</sub>
ru:	rutile	TiO <sub>2</sub>
ap:	apatite	3(3CaO.P <sub>2</sub> O <sub>5</sub> ).CaF <sub>2</sub>
wo-di:	wollastonite	CaO.SiO <sub>2</sub>
en-di:	MgSiO <sub>3</sub> in diopside	MgO.SiO <sub>2</sub>
fs-di:	FeSiO <sub>3</sub> in hedenbergite	FeO.SiO <sub>2</sub>
en-hy:	enstatite	MgO.SiO <sub>2</sub>
fs-hy:	ferrosilite	FeO.SiO <sub>2</sub>
fo-ol:	forsterite	2MgO.SiO <sub>2</sub>
fa-ol:	fayalite	2FeO.SiO <sub>2</sub>
ca:	calcite	CaO.CO <sub>2</sub>
ma:	magnesite	MgO.CO <sub>2</sub>
sd:	siderite	FeO.CO <sub>2</sub>
sr:	sirontianite	SrO.CO <sub>2</sub>
NaCO <sub>3</sub> :	sodium carbonate	Na <sub>2</sub> O.CO <sub>2</sub>
K <sub>2</sub> CO <sub>3</sub> :	potassium carbonate	K <sub>2</sub> O.CO <sub>2</sub>







C-3 カルクフェルド地域  
地化学分析結果一覧表



C-3 カルクワエルド地域地化学分析結果一覧表 (1)

No.	Sample No.	X (m)	Y (m)	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Hf ppm	Sr ppm	P ppm	Fe %	PRE203 ppm
1	Q 10	-398.3	-759.7	Marble	Ma	4	14	7	2.0	0.5	0.4	1.0	0.2	3.1	11	5	10	6	2	19	270	2590	850	1.41	43
2	Q 20	-398.5	-757.4	Marble, cut by Ank-Cal veins	Ma	6	17	11	1.9	0.6	0.4	0.8	0.1	2.0	10	3	25	12	2	3	428	3050	640	1.06	57
3	Q 30	-398.5	-755.2	Marble, with pink(Kf) minerals	Ma	6	17	8	1.6	0.5	0.7	2.1	0.3	2.8	22	3	11	11	2	18	421	1520	720	1.37	56
4	Q 40	-399.9	-752.9	Granite, leuco-, cut by Ank veins	Gp	10	22	8	1.8	0.7	0.3	0.4	0.1	0.6	7	3	18	2	2	17	125	128	760	0.48	58
5	Q 50	20.0	-750.7	Volcanic Breccia	Vb	203	381	162	37.0	9.0	3.5	1.0	0.2	0.5	25	79	370	296	12	5	5120	805	4090	3.67	1028
6	Q 60	100.0	-745.7	Marble, cut by Goe network	Ma	26	40	15	1.6	0.6	1.1	1.3	0.2	4.1	15	4	14	6	2	18	840	864	660	1.98	116
7	Q 70	200.0	-748.7	Granite, leuco-	Gp	86	177	81	18.0	6.6	3.0	4.2	0.6	7.2	70	19	282	75	3	12	877	372	3490	6.44	515
8	Q 80	299.0	-750.7	Volcanic breccia, cut by Ank-Cal veins	Vb	335	548	184	29.0	8.2	3.4	2.2	0.3	5.9	37	10	205	169	4	38	6300	1430	5450	6.28	1413
9	R 10	-400.2	-609.7	Marble, with pink(Kf) minerals	Ma	9	12	5	1.8	0.5	0.6	1.6	0.3	0.8	18	1	10	2	2	4	1300	2140	280	0.80	47
10	R 20	-400.3	-607.4	Marble, cut by Ank-Cal veins	Ma	15	28	11	1.8	0.5	0.6	1.2	0.2	2.3	13	3	13	4	2	17	434	2490	710	1.18	81
11	R 30	-400.3	-605.2	Marble, with pink(Kf) minerals	Ma	8	13	5	1.2	0.5	0.5	0.9	0.1	1.4	10	1	6	3	2	11	286	1440	490	0.69	43
12	R 40	-400.0	-602.9	Granite, leuco-	Gp	21	47	17	2.2	0.8	0.5	0.8	0.1	1.5	12	5	25	18	2	29	171	339	720	1.38	118
13	R 50	1.0	-596.1	Granite, leuco-	Gp	30	63	23	4.0	1.3	0.7	0.6	0.1	2.4	9	2	22	9	2	24	237	357	560	0.93	160
14	R 60	99.6	-600.6	Granite, leuco-	Gp	24	33	10	1.5	0.6	0.3	1.3	0.2	1.4	18	1	8	4	2	17	409	2510	370	0.69	93
15	R 70	198.2	-598.6	Marble, cut by Ank-Cal veins	Ma	381	591	178	27.0	8.4	3.1	2.2	0.3	7.3	23	3	207	16	2	64	5440	5370	3300	6.38	1506
16	R 80	298.1	-600.6	Volcanic breccia, siliceous	Vb	208	365	111	16.0	4.2	1.6	2.1	0.2	3.4	8	1	104	18	2	28	4820	789	1120	4.23	896
17	R 90	399.1	-600.6	Pegmatite, cut by Ank-Cal veins	Gp	25	43	14	1.9	0.5	0.6	2.1	0.3	3.7	24	2	19	13	2	32	423	2450	1130	1.39	118
18	Ra 30	-199.6	-530.2	Marble, with pink(Kf) minerals	Ma	6	10	5	1.2	0.5	0.3	0.5	0.1	1.2	6	1	9	2	2	7	190	3120	460	0.50	33
19	Ra 35	-152.2	-539.0	Marble, with pink(Kf) minerals	Ma	53	96	37	8.4	3.0	2.2	2.2	0.4	4.0	38	2	40	27	2	45	1810	1670	1730	2.27	281
20	Ra 40	-99.0	-529.9	Marble, with pink(Kf) minerals	Ma	176	315	83	7.1	2.6	1.2	1.0	0.2	6.3	9	3	115	48	2	58	4940	532	1350	6.29	736
21	Ra 45	-48.5	-526.8	Volcanic breccia	Vb	192	340	112	20.0	6.0	2.3	2.5	0.4	6.2	45	3	42	66	2	63	4490	1090	5630	5.31	867
22	Ra 50	0.0	-525.6	Volcanic breccia	Vb	98	155	47	8.4	2.8	1.0	1.4	0.2	10.0	14	2	52	25	2	101	1610	544	1440	7.87	402
23	Ra 55	51.0	-524.3	Volcanic breccia	Vb	194	320	102	16.0	5.7	2.2	2.0	0.3	6.4	35	4	91	21	2	80	3470	1110	3100	5.37	823
24	Ra 60	100.3	-523.4	Volcanic breccia	Vb	6	10	5	1.2	0.5	0.4	1.5	0.2	1.5	16	1	11	2	2	7	424	3520	980	0.62	38
25	Ra 65	150.3	-522.2	Marble	Ma	3	5	5	0.5	0.5	1.0	0.7	0.1	1.3	11	6	27	6	2	80	208	201	410	1.10	250
26	S 10	-348.7	-459.7	Granite, Ft	Gb	37	101	30	4.6	0.5	0.5	0.3	0.1	0.6	4	1	4	4	2	9	115	2030	380	0.28	23
27	S 15	-348.7	-458.6	Marble, with pink(Kf) minerals	Ma	3	5	5	0.5	0.5	0.3	0.3	0.1	0.6	4	1	4	2	2	60	10300	4060	3760	4.37	3003
28	S 20	-298.1	-457.4	Volcanic breccia	Vb	926	1200	255	37.0	7.9	3.3	1.8	0.2	2.1	31	14	119	66	5	60	10300	4060	3760	4.37	3003
29	S 25	-248.9	-456.3	Marble	Ma	11	21	9	2.0	0.8	0.6	1.8	0.3	1.2	21	1	3	3	2	11	690	1380	210	0.60	68
30	S 30	-199.1	-455.2	Marble, with pink(Kf) minerals	Ma	9	16	7	1.0	0.5	0.4	1.2	0.2	1.8	14	1	13	4	2	19	458	2910	590	0.94	51
31	S 35	-150.5	-449.0	Beforsite, dol with Ank rim	Bs	922	1630	382	63.0	17.0	5.7	3.0	0.4	3.9	42	7	390	154	10	3	19000	10900	330	10.10	3780
32	S 40	-99.8	-452.9	Volcanic breccia	Vb	199	389	132	12.0	4.0	5.0	2.8	0.3	6.6	10	4	125	2	22	3	4560	2570	2320	30.40	973
33	S 45	-49.9	-451.8	Beforsite	Bs	59	98	32	5.0	2.2	1.4	1.6	0.3	5.7	20	1	32	37	3	64	1870	979	6610	6.91	265
34	S 50	0.0	-450.6	Volcanic breccia, cut by Ank-Cal veins	Vb	275	473	138	13.0	4.8	1.8	1.4	0.2	4.7	18	2	135	102	6	98	3920	769	2340	8.33	1140
35	S 55	53.3	-449.0	Volcanic breccia	Vb	487	767	198	32.0	7.6	2.3	0.8	0.1	0.8	20	45	169	278	29	8	5170	1000	4710	3.33	1860
36	S 60	103.0	-447.9	Volcanic breccia - beforosite	Vb	16	36	11	2.0	0.5	0.7	1.5	0.2	6.9	14	1	16	12	2	32	2550	286	900	5.42	93
37	S 65	152.7	-446.7	Marble, with pink(Kf) minerals	Ma	17	24	14	2.8	1.3	0.6	1.8	0.3	2.2	25	1	23	19	2	20	918	2210	1140	1.57	80
38	S 70	203.3	-445.6	Marble, with pink(Kf) minerals	Ma	12	27	11	2.0	0.7	0.7	1.5	0.2	3.2	21	2	23	19	2	20	918	2210	1140	1.57	80
39	S 80	303.9	-443.3	Marble, with pink(Kf) minerals	Ma	10	21	9	2.0	0.9	0.5	1.6	0.3	2.8	19	1	18	6	2	26	481	2590	830	1.19	65
40	S 90	406.8	-441.0	Marble, cut by Ank-Cal veins	Ma	17	39	20	5.4	2.5	1.4	1.7	0.2	4.4	26	1	35	19	2	5	1330	1840	450	1.12	130
41	Sa 10	-399.9	-384.3	Marble, cut by Ank-Cal veins	Ma	357	476	130	28.0	5.9	2.9	1.6	0.2	0.7	26	3	242	21	2	3	1760	3490	1050	1.02	1262
42	Sa 15	-341.9	-383.1	Marble	Ma	10	19	7	1.2	0.5	0.5	1.6	0.3	1.3	20	1	18	5	2	12	678	1600	740	0.80	58
43	Sa 20	-299.9	-382.0	Granite, Ft	Gb	59	100	30	3.8	0.6	0.6	0.8	0.1	1.5	11	5	21	11	2	81	265	99	480	1.06	247
44	Sa 25	-249.9	-380.9	Granite, Ft	Gb	61	105	29	2.9	0.9	0.9	0.6	0.1	3.2	8	2	20	31	2	71	1560	334	870	2.41	253
45	Sa 30	-198.9	-379.7	Volcanic breccia, cut by Ank-Cal veins	Vb	318	479	124	18.0	5.3	2.2	1.6	0.3	12.0	27	1	64	4	5	147	5920	2030	1060	6.70	1191
46	Sa 35	-150.0	-378.6	Volcanic breccia, cut by Ank-Cal veins	Vb	222	379	142	22.0	6.8	3.8	1.6	0.2	4.5	21	2	163	24	11	82	11800	1400	1260	14.80	1005
47	Sa 40	-100.0	-377.5	Beforsite - iron layers	Bs	245	514	217	29.0	7.0	3.4	1.6	0.2	0.5	19	2	223	2	28	3	29900	1080	660	32.50	1295

C-3 カルクワフェルド地域地化学分析結果一覧表 (2)

No.	Sample No.	X (m)	Y (m)	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe %	TREB203 ppm	
48	Sa 45	-50.0	-376.3	Be	1750	570	101.0	28.0	2.5	0.2	0.5	52	4	975	7	23	5	25300	2970	2590	25.20	4126				
49	Sa 50	0.0	-375.2	Be	626	955	261	45.0	12.0	3.4	1.3	0.2	4.7	14	1	352	7	3	11	12400	1610	420	8.56	2378		
50	Sa 55	50.4	-374.1	Be	253	447	124	15.0	5.5	2.2	1.2	0.1	6.4	10	1	116	7	3	48	6050	2510	340	7.21	1071		
51	Sa 60	101.6	-372.9	Be	923	1290	262	30.0	6.3	1.8	0.8	0.1	5.2	10	5	132	117	5	5	19200	1740	844	6.45	3084		
52	Sa 65	151.6	-371.8	Vb	302	526	189	22.0	5.3	2.3	1.9	0.2	3.6	36	5	97	245	2	2	36	7750	840	5180	5.93	1298	
53	Sa 70	201.6	-370.6	Ma	54	95	35	5.0	1.6	0.9	1.4	0.2	2.6	15	2	26	50	2	2	21	3540	1920	415	2.68	263	
54	T 40A	-75.0	-317.0	Io	133	137	91	20.0	3.1	3.6	6.0	0.9	0.5	14	2	123	2	32	2	3	36300	947	464	34.80	537	
55	T 21A	220.0	-685.7	Vb	565	851	478	64.9	12.6	7.5	2.9	0.4	14.9	17	1	188	11	2	176	7520	1000	144	6.66	2562		
56	T 22A	-115.0	-357.5	Io	899	1540	1269	300.0	70.2	29.3	5.7	0.8	4.8	76	2	2260	7	2	19	37000	442	559	31.92	5372		
57	T 23A	-90.0	-366.3	Ma	4	7	5	0.8	0.5	0.3	0.8	0.1	0.5	11	2	5	2	2	2	3	405	1116	595	0.31	29	
58	T 10	-399.9	-308.8	Ma	68	100	31	4.2	1.2	0.7	0.8	0.1	0.8	14	1	28	18	2	4	977	1230	1330	0.76	266		
59	T 15	-349.9	-307.5	Ma	343	423	86	10.0	0.5	2.8	3.4	0.5	0.9	56	8	52	73	2	4	4890	1780	2730	2.83	1085		
60	T 20	-299.9	-306.5	Ma	774	1540	627	135.0	40.0	18.0	11.0	0.6	2.6	326	17	560	1840	5	3	14400	2960	37800	8.28	4138		
61	T 25	-249.9	-305.4	Be	726	1130	376	42.0	8.5	3.4	2.2	0.8	5.9	40	7	171	123	10	2	22700	1540	1480	11.40	2856		
62	T 30	-199.9	-304.2	Be	20	21	12	2.7	1.6	1.2	2.5	0.5	1.6	35	4	1	38	4	2	4	3220	1460	1150	4.90	96	
63	T 35	-150.0	-303.1	Be	291	455	158	24.0	6.7	1.9	0.8	0.1	2.1	9	1	150	26	2	7	7090	2530	3210	8.39	1179		
64	T 40	-100.0	-302.0	Vb	288	468	154	19.0	5.2	1.7	1.0	0.2	8.4	9	1	135	210	6	55	6000	1810	527	8.56	1187		
65	T 45	-50.0	-299.8	Ma	289	428	157	22.0	6.4	2.0	0.6	0.1	6.0	7	1	158	75	2	25	7640	1430	248	8.28	1139		
66	T 50	0.0	-298.7	Be	175	250	83	10.0	3.0	0.8	0.6	0.1	1.8	4	1	64	203	3	12	7970	879	340	6.26	666		
67	T 55	42.0	-297.4	Vb	636	855	243	35.0	7.5	2.3	0.9	0.1	2.3	10	4	230	117	4	2	5570	1170	770	5.41	2230		
68	T 60	100.0	-296.3	Vb	188	273	90	8.5	2.7	1.3	0.8	0.1	5.2	4	1	123	57	6	52	4460	739	842	8.40	710		
69	T 65	150.0	-295.2	Ma	59	98	44	10.0	4.4	2.7	4.8	0.7	2.1	85	9	140	39	2	10	2390	1430	5110	2.28	320		
70	T 70	199.9	-294.9	Ma	11	21	11	2.4	0.8	0.5	1.0	0.2	0.9	12	1	12	5	2	4	906	1900	321	0.92	68		
71	T 80	299.9	-292.9	Ma	48	93	33	5.4	1.1	1.0	1.0	0.2	2.7	11	6	40	40	2	4	318	167	520	2.13	328		
72	T 90	399.9	-290.6	Op	293	487	191	42.0	11.0	4.4	1.9	0.2	0.8	41	3	341	47	2	2	3	418	862	878	0.31	31	
73	T 100	499.9	-288.4	Ma	5	8	5	0.9	0.5	0.3	0.8	0.1	0.5	12	2	9	2	2	2	6	167	3260	3450	5680	5.99	1090
74	Ta 25	-249.9	-230.7	Ma	232	413	157	27.0	8.6	3.2	2.9	0.3	5.6	70	10	117	197	6	167	3260	3450	5680	5.99	1090		
75	Ta 30	-199.9	-229.5	Vb	100	155	71	12.0	1.7	3.1	1.6	0.3	7.2	12	2	36	107	7	81	5860	1490	270	9.06	458		
76	Ta 35	-150.0	-228.4	Vb	371	594	210	27.0	7.3	3.0	1.3	0.2	5.4	13	5	37	106	5	32	5780	2960	1080	8.04	1532		
77	Ta 40	-100.0	-227.3	Vb	729	1140	406	56.0	16.0	5.1	2.5	0.3	2.1	49	4	222	2	25	3	24800	2770	11600	19.20	2966		
78	Ta 45	-50.0	-226.1	Be	423	554	219	37.0	11.0	2.9	1.7	0.3	4.1	40	2	176	39	3	5	7020	3350	5600	7.96	1701		
79	Ta 50	0.0	-225.0	Be	251	357	124	18.0	7.0	2.1	1.5	0.3	5.0	23	1	146	37	6	16	8810	2710	4870	8.46	967		
80	Ta 55	50.0	-223.9	Be	186	269	105	14.0	4.9	2.0	1.3	0.3	7.3	13	3	134	261	10	33	8870	1150	3830	8.89	745		
81	Ta 60	100.0	-222.7	Vb	377	493	166	27.0	7.0	2.3	1.1	0.2	3.8	13	2	146	95	5	65	5310	1400	1570	5.59	1348		
82	Ta 65	150.0	-221.6	Vb	366	523	184	24.0	5.9	1.9	1.0	0.1	4.3	9	1	52	78	4	46	5340	882	351	7.24	1384		
83	Ta 70	199.9	-220.5	Ma	7	11	6	1.5	0.7	0.3	0.7	0.1	1.1	11	1	1	4	2	8	490	1700	504	0.67	40		
84	Ta 75	249.9	-219.3	Ma	111	184	63	8.6	2.4	1.0	1.0	0.1	3.5	14	4	24	62	2	57	1120	435	1400	3.18	472		
85	Ta 80	299.9	-218.2	Op	19	41	16	2.4	0.6	0.3	0.6	0.1	2.5	7	2	8	33	2	30	292	224	716	1.08	104		
86	Ta 85	349.9	-217.1	Ma	1	2	2	1.0	0.5	0.2	0.4	0.1	0.5	4	1	1	2	2	2	3	113	1830	271	0.09	16	
87	U 10	-299.9	-156.8	Ma	532	870	246	37.0	10.0	4.7	5.0	0.6	0.5	133	8	237	90	2	3	4640	4210	16300	2.15	2279		
88	U 20	-299.9	-155.0	Ma	27	47	18	2.8	0.9	0.5	0.7	0.1	0.5	9	1	14	2	2	2	3	790	1110	515	0.50	127	
89	U 30	-199.9	-154.5	Ma	58	92	37	5.7	1.6	1.0	1.4	0.2	0.5	20	1	23	8	2	3	1990	1450	1390	1.00	258		
90	U 35	-150.0	-153.4	Vb	463	669	224	29.0	7.1	2.3	0.9	0.2	5.2	8	2	98	156	6	49	7150	1640	930	8.39	1742		
91	U 40	-100.0	-152.2	Be	3502	5042	1834	330.0	90.0	24.0	3.4	0.5	5.2	149	3	785	7	13	3	25800	3470	12800	0.80	13600		
92	U 45	-50.0	-151.1	Be	1406	2043	741	135.0	39.0	11.0	2.3	0.3	8.1	49	1	323	21	12	4	15600	1770	645	10.40	5522		
93	U 50	0.0	-150.0	Be	1762	2919	1202	279.0	80.0	21.5	2.4	0.4	2.7	67	1	2250	32	15	3	17100	1840	4430	11.70	7995		
94	U 55	50.0	-148.8	Be																						

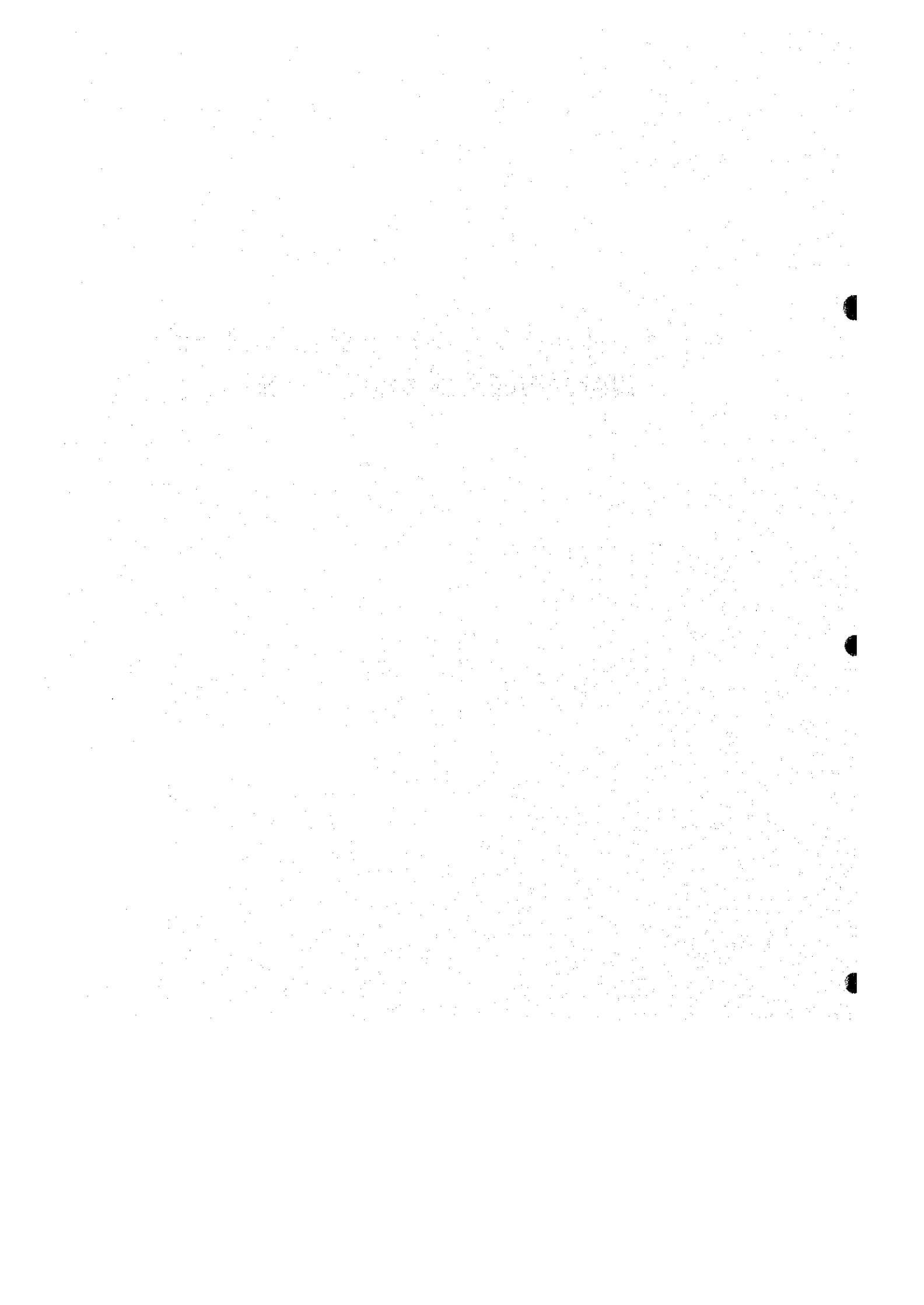
C-3 カルクフェールド地域地化学分析結果一覧表 (3)

No.	Sample No.	X (m)	Y (n)	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Str	P	Fe %	TRREE203 ppm
95	U 60	100.0	-147.7	Beforsite - volcanic breccia	Be	270	411	177	31.0	8.9	3.7	1.3	0.3	4.6	12	4	345	226	13	29	8670	1160	913	1.30	1161
96	U 65	150.0	-146.6	Volcanic breccia, cut by Ank-Cal veins	Vb	693	953	327	49.0	12.0	3.3	1.2	0.2	1.7	20	11	430	99	8	22	10800	1850	1490	8.52	2546
97	U 70	199.9	-145.4	Volcanic breccia, cut by Ank-Cal veins	Vb	204	307	117	18.0	6.1	2.1	2.2	0.2	2.9	43	8	191	97	3	28	7760	3030	9790	5.88	842
98	U 75	249.9	-144.3	Beforsite	Be	241	342	127	25.0	10.0	4.3	4.5	0.5	9.1	90	9	334	150	11	34	10400	1510	8170	0.60	984
99	U 80	299.9	-143.2	Granite, cut by carbonatite veins	Gp	83	129	44	5.2	1.5	0.8	0.7	< 0.1	2.6	7	2	48	63	< 2	61	770	287	600	3.31	336
100	U 85	349.9	-142.0	Granite, cut by carbonatite veins	Gp	71	118	43	5.7	1.6	0.6	0.8	< 0.1	2.8	10	3	60	47	< 2	59	612	169	962	3.34	306
101	U 90	399.9	-140.9	Marble	Ma	15	19	10	2.6	< 0.5	1.0	4.9	0.4	2.6	39	3	47	15	< 2	18	918	1080	3350	1.79	83
102	U 100	499.9	-138.6	Marble	Ma	6	8	< 5	1.4	< 0.5	0.5	3.5	0.1	0.6	8	1	5	4	< 2	9	442	1530	426	0.50	42
103	Ua 30	199.9	-79.5	Marble, cut by network of Goe veins	Vb	27	41	16	3.3	1.2	1.2	5.0	0.3	0.9	21	4	30	21	< 2	6	1570	2790	1350	1.59	140
104	Ua 35	150.0	-78.4	Volcanic breccia, cut by Ank-Cal veins	Vb	420	636	215	36.0	9.2	6.7	6.5	0.6	3.8	39	2	161	111	< 2	20	6560	2390	5260	6.05	1725
105	Ua 40	100.0	-77.2	Volcanic breccia	Vb	360	553	203	30.0	7.4	5.8	6.5	0.8	1.3	19	5	263	127	< 2	13	12600	2460	2460	10.10	1515
106	Ua 45	50.0	-76.1	Volcanic breccia	Vb	269	406	134	18.0	5.3	3.0	7.0	0.6	7.1	13	2	120	161	< 2	52	4800	1590	1260	7.22	1087
107	Ua 50	0.0	-75.0	Volcanic breccia, syenitic	Vb	387	596	193	27.0	7.0	3.1	6.0	0.6	5.6	10	2	149	255	< 2	46	6000	1080	180	7.45	1551
108	Ua 55	50.0	-73.8	Volcanic breccia, syenitic	Vb	291	408	125	16.0	4.7	2.7	6.5	0.6	1.0	8	7	161	498	< 2	6	16600	1260	1120	8.14	1094
109	Ua 60	100.0	-72.7	Volcanic breccia, syenitic	Vb	428	591	191	33.0	8.9	4.1	6.5	0.8	6.3	9	2	316	314	< 2	78	10400	8490	850	9.04	1616
110	Ua 65	150.0	-71.6	Beforsite	Be	321	496	140	18.0	4.6	4.2	6.0	0.5	1.6	7	1	108	66	< 2	3	12700	1280	470	6.52	1274
111	Ua 70	249.9	-70.4	Volcanic breccia, syenitic	Vb	438	593	153	18.0	5.1	4.8	6.5	0.7	6.3	14	3	101	160	< 2	72	5270	1490	710	7.41	1557
112	Ua 75	249.9	-69.3	Marble, cut by Ank-Cal veins	Ma	213	322	107	21.0	6.3	3.7	7.3	0.6	2.2	66	11	91	190	< 2	16	4200	2170	3260	2.56	897
113	Ua 80	299.9	-68.2	Marble, cut by Ank-Cal veins	Ma	47	66	28	4.2	1.9	1.0	5.3	0.5	3.8	27	1	30	100	< 2	72	1900	1100	660	2.64	211
114	V 10	399.9	-9.1	Marble, cut by Ank-Cal veins	Vb	93	156	52	8.9	2.5	2.6	4.7	0.3	1.4	21	2	26	41	< 2	7	1240	1540	810	1.36	433
115	V 20	299.9	-6.8	Marble, cut by volcanic breccia	Ma	2	4	< 5	0.5	< 0.5	0.6	1.4	< 0.1	< 0.5	3	1	2	< 2	3	155	2380	310	0.12	27	
116	V 30	199.9	-4.5	Marble, cut by Ank-Cal veins	Ma	47	77	30	5.9	2.4	2.3	3.0	0.4	1.9	34	2	33	63	< 2	16	2070	2870	1570	1.63	240
117	V 35	150.0	-3.4	Marble, cut by Ank-Cal veins	Ma	312	474	151	20.0	5.3	5.5	6.5	0.6	2.4	12	6	86	223	7	24	7170	1030	1820	6.37	1271
118	V 40	100.0	-2.3	Volcanic breccia, cut by Ank-Cal veins	Vb	415	597	249	41.0	9.3	5.0	6.0	0.7	0.9	11	4	205	25	< 2	6	9070	1700	2920	7.15	1828
119	V 45	50.0	-1.1	Granite, leuco-	Gp	92	151	49	5.2	2.3	1.7	4.7	0.4	4.4	6	1	62	114	< 2	88	783	250	610	5.04	406
120	V 50	0.0	0.0	Granite, leuco-	Gp	116	187	59	7.9	2.3	1.3	4.7	0.4	2.7	7	1	45	102	< 2	95	1730	325	750	3.74	490
121	V 55	50.0	2.3	Granite / volcanic breccia	Gp	68	101	37	2.8	1.6	2.3	4.7	0.4	3.0	6	1	50	151	< 2	124	453	177	360	5.12	302
122	V 60	100.0	3.4	Marble, cut by Ank-Cal veins	Ma	269	374	111	14.0	4.7	2.4	4.7	0.7	3.2	8	2	98	226	< 2	61	12000	1840	2070	7.69	988
123	V 65	150.0	4.5	Marble, cut by Ank-Cal veins	Ma	266	411	117	16.0	4.7	2.4	3.0	0.7	3.2	35	3	67	94	< 2	51	5780	1680	1500	4.78	1042
124	V 70	199.9	5.7	Marble, cut by Ank-Cal veins	Ma	978	1736	523	87.0	18.0	10.0	10.0	0.8	0.5	28	3	352	55	< 2	3	16100	1630	640	8.55	4274
125	V 75	249.9	6.8	Marble, cut by Ank-Cal veins	Ma	3	6	< 5	0.6	< 0.5	0.6	1.4	< 0.1	< 0.5	4	1	2	2	< 2	3	142	919	260	0.14	30
126	V 80	299.9	9.1	Marble	Ma	12	20	7	1.4	0.5	0.5	1.5	0.1	< 0.5	9	1	6	4	< 2	3	529	1070	350	0.42	62
127	V 90	399.9	11.3	Marble	Ma	2	4	< 5	0.8	< 0.5	0.5	1.3	< 0.1	< 0.5	4	1	1	1	< 2	3	157	914	180	0.12	26
128	W 100	499.9	140.4	Marble	Ma	3	5	< 5	0.7	< 0.5	< 0.1	0.8	< 0.1	< 0.5	3	1	1	1	< 2	3	202	624	240	0.11	22
129	W 20	305.3	142.7	Marble	Ma	1	3	< 5	0.6	< 0.5	0.4	0.9	< 0.1	< 0.5	4	1	1	1	< 2	3	69	1870	430	0.10	21
130	W 30	205.4	145.0	Marble	Ma	2	4	< 5	1.0	< 0.5	0.4	0.8	< 0.1	< 0.5	7	1	2	2	< 2	3	176	1860	340	0.14	23
131	W 40	105.4	147.2	Marble	Ma	2	4	< 5	1.2	< 0.5	0.7	0.8	< 0.1	< 0.5	6	1	1	1	< 2	3	152	1410	620	0.25	27
132	W 50	5.4	149.5	Marble, cut by Ank-Cal veins	Ma	186	271	82	20.0	6.3	4.2	5.3	0.5	1.0	55	2	90	62	< 2	3	216	1740	330	0.17	53
133	W 60	94.6	151.8	Marble, cut by Ank-Cal veins	Ma	16	22	8	2.1	1.1	1.1	3.4	0.4	0.8	33	2	13	100	< 2	3	953	2070	1130	0.86	86
134	W 70	204.5	154.0	Marble	Ma	2	3	< 5	0.8	< 0.5	0.3	0.8	< 0.1	< 0.5	4	1	1	1	< 2	3	141	1590	220	0.07	21
135	W 80	294.5	156.3	Marble	Ma	4	7	< 5	1.3	< 0.5	0.4	0.8	< 0.1	< 0.5	8	2	2	2	< 2	3	319	1610	390	0.24	30
136	W 90	394.5	158.6	Marble	Ma	1	2	< 5	1.5	< 0.5	0.3	0.9	< 0.1	< 0.5	2	1	1	1	< 2	3	52	1670	390	0.05	17
137	W 100	494.5	160.8	Marble	Ma	1	2	< 5	1.5	< 0.5	< 0.1	0.7	< 0.1	< 0.5	1	1	1	1	< 2	3	45	1230	210	0.03	16
138	Ma 40	108.1	222.2	Marble	Ma	1	2	< 5	1.0	< 0.5	0.3	0.7	< 0.1	< 0.5	2	1	1	1	< 2	3	48	1700	340	0.06	20
139	Ma 45	58.1	223.3	Granite, leuco-	Gp	37	62	23	7.1	2.2	1.8	4.0	0.4	1.6	33	4	34	39	< 2	48	336	266	1750	1.10	199
140	Ma 50	58.1	224.4	Marble, gr	Ma	161	230	56	7.4	2.3	2.3	5.0	0.4	2.2	22	1	40	34	< 2	20	4650	1540	980	2.32	591

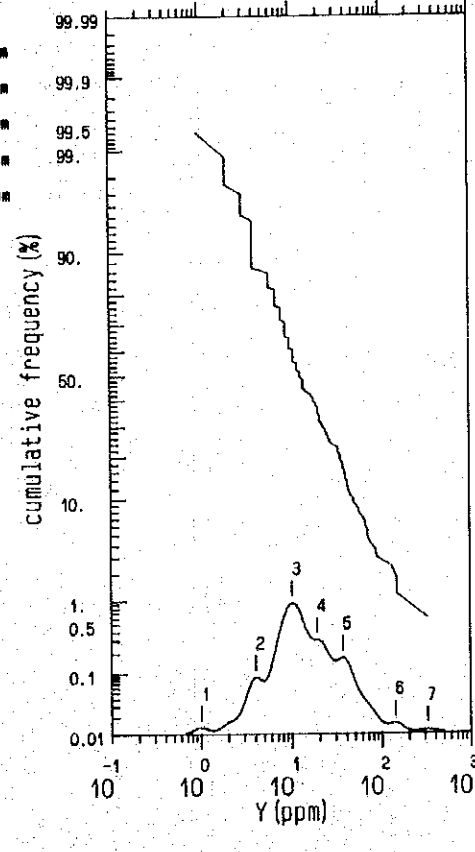
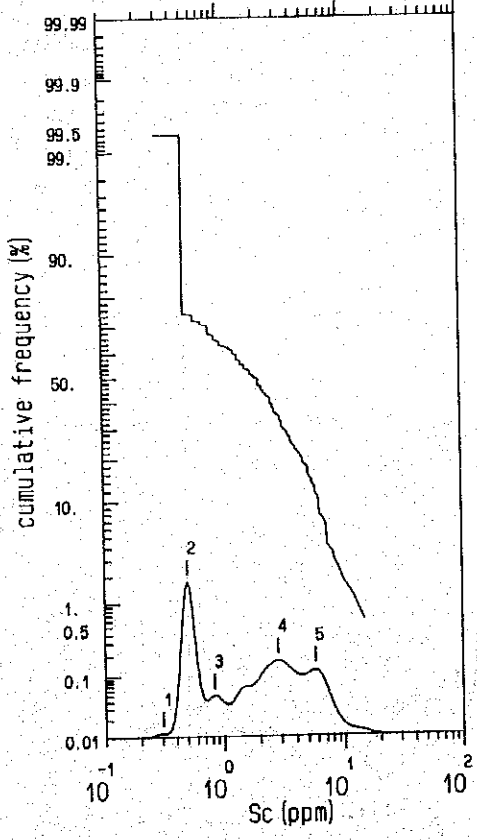
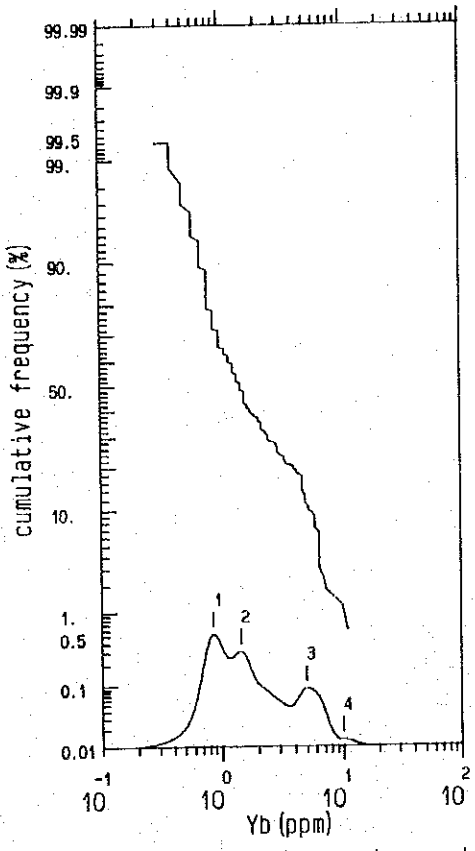
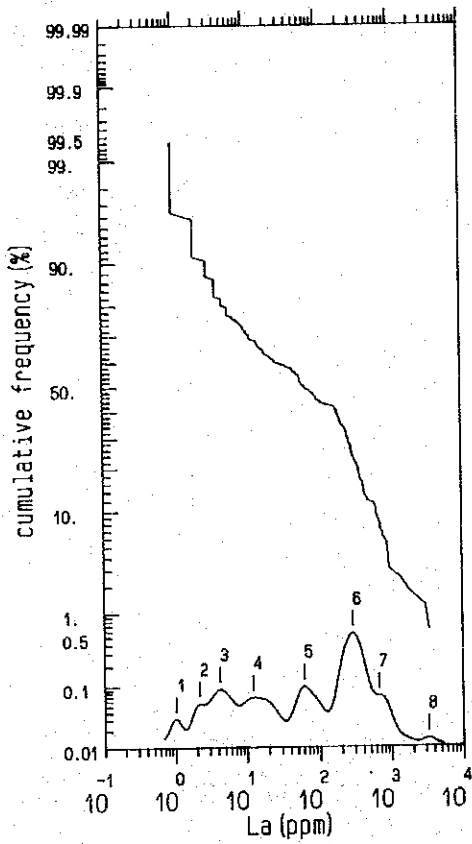
C-3 カルクフェルド地域地化学分析結果一覽表(4)

No.	Sample No.	X (m)	Y (m)	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe ppm	Fe %
142	Ma 55	42.8	223.8	Marble, Gr	Ma	5	7	5	1.1	0.5	0.2	1.0	0.1	0.5	3	1	1	2	2	3	191	1620	290	0.09	29
143	Ma 60	94.8	223.2	Marble, Gr	Ma	3	5	5	1.3	0.7	0.5	0.9	0.1	0.5	11	2	11	3	2	3	259	1330	610	0.30	29
144	X 20	-310.7	292.2	Marble	Ma	4	8	5	1.2	0.5	0.4	0.9	0.1	0.5	9	1	9	4	2	3	219	3250	350	0.18	32
145	X 30	-210.8	294.4	Marble	Ma	5	8	5	0.8	0.5	0.3	0.8	0.1	0.5	4	1	1	2	2	3	133	1270	280	0.11	31
146	X 40	-110.8	296.7	Marble	Ma	13	19	7	1.6	0.7	0.5	1.5	0.2	0.5	11	1	5	8	2	3	636	1200	400	0.55	63
147	X 45	-60.8	297.8	Marble, cut by Ank-Cal veins	Ma	432	546	137	24.0	6.9	5.0	4.7	0.4	1.0	42	2	123	75	2	7	2850	2700	1690	2.27	1478
148	X 50	-10.8	299.0	Marble, Gr dolomitic	Ma	79	96	24	3.1	1.4	0.8	4.0	0.4	1.9	24	1	17	45	2	9	3350	914	700	2.27	272
149	X 55	46.5	298.8	Marble, cut by pegmatite(Kf) dyke	Ma	250	286	61	11.0	4.3	2.0	3.6	0.6	2.1	44	4	51	114	2	5	5040	2020	1190	2.92	765
150	X 60	84.4	300.5	Marble, Gr	Ma	2	4	5	0.8	0.5	0.5	1.2	0.1	0.5	2	1	1	2	2	3	103	996	290	0.10	26
151	X 70	177.8	292.6	Marble, Gr	Ma	6	7	5	1.1	0.5	0.4	1.2	0.1	0.5	6	1	5	4	2	3	329	987	310	0.26	34
152	X 80	277.7	291.4	Marble, Gr	Ma	2	4	5	1.1	0.5	0.5	0.9	0.1	0.5	4	1	1	2	2	3	91	1250	400	0.10	25
153	X 90	378.5	290.1	Marble, Gr	Ma	1	3	5	1.0	0.5	0.5	0.9	0.1	0.5	4	1	1	2	2	3	145	1300	260	0.12	23
154	X 100	477.5	288.9	Marble, Gr	Ma	3	5	5	1.5	0.5	0.3	0.5	0.1	0.5	3	1	1	2	2	3	269	583	200	0.11	25
155	Xa 40	-113.5	371.5	Marble	Ma	97	134	134	15.3	1.9	3.0	2.4	0.1	0.5	17	1	16	10	2	3	430	1120	500	0.28	516
156	Xa 45	-63.5	372.5	Marble	Ma	5	10	5	1.5	0.5	0.6	1.0	0.1	0.7	9	1	2	5	2	3	260	1160	250	0.25	36
157	Xa 50	-13.5	373.8	Marble, Gr	Ma	4	8	5	1.4	0.5	0.1	1.7	0.1	0.5	1	1	1	2	2	3	164	1050	250	0.11	29
158	Xa 55	47.4	373.4	Marble, Gr	Ma	1	4	5	1.0	0.5	0.3	1.0	0.1	0.5	4	1	1	2	2	3	135	1460	470	0.08	22
159	Xa 60	96.4	372.8	Marble	Ma	3090	4150	604	94.0	26.0	9.3	3.0	0.4	3.1	149	6	263	157	2	28	11500	5540	3200	3.72	9781
160	Y 30	-216.2	444.1	Marble	Ma	4	7	5	1.2	0.5	0.5	1.1	0.1	0.5	4	1	4	2	2	3	93	1420	270	0.08	32
161	Y 40	-116.2	446.4	Marble	Ma	4	8	5	1.0	0.5	0.1	0.9	0.1	0.5	7	1	1	2	2	3	109	1300	240	0.09	27
162	Y 50	-16.2	448.5	Granite, leuco-	Gp	40	75	25	5.7	0.5	1.6	6.5	0.6	3.6	38	6	14	31	2	100	168	95	210	0.44	217
163	Y 60	81.8	447.4	Marble, Gr	Ma	4	7	5	1.2	0.5	0.1	0.7	0.1	0.8	5	1	1	2	2	4	151	1220	290	0.10	26
164	Y 70	180.5	446.2	Marble, partly Gr rich	Ma	3	5	5	1.5	0.5	0.4	0.9	0.1	0.5	8	1	1	2	2	3	118	1270	290	0.08	27
165	Y 80	279.3	445.0	Marble, Gr	Ma	2	4	5	1.4	0.5	0.4	1.1	0.1	0.5	6	1	1	2	2	3	95	862	370	0.06	25
166	Y 90	378.4	443.8	Marble, Gr	Ma	2	5	5	1.3	0.5	0.4	1.1	0.1	0.5	4	1	1	2	2	3	75	779	300	0.08	26
167	Y 100	478.5	442.5	Granite, pegmatitic	Gp	19	43	20	3.5	0.5	1.0	3.1	0.5	3.1	62	8	10	28	2	23	87	57	220	0.49	129

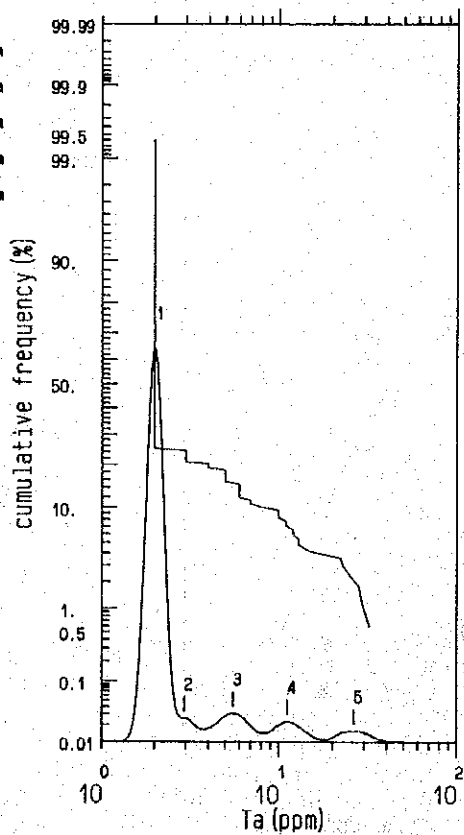
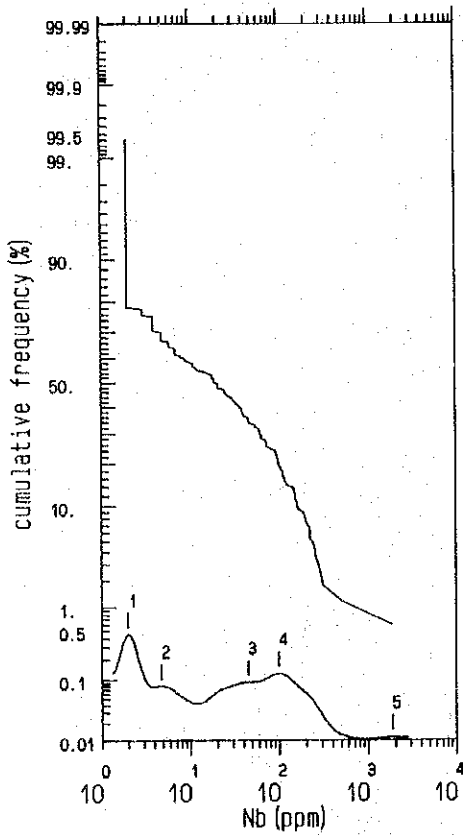
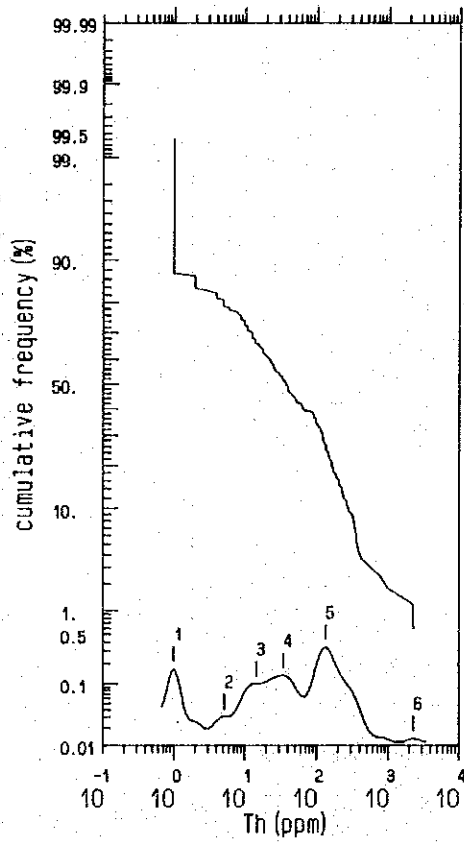
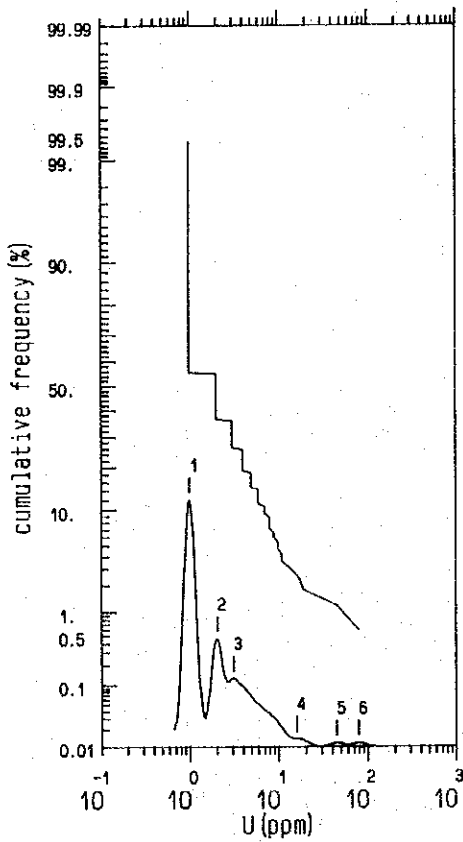
C-4 カルクフェルド地域地化学分析値の  
度数分布図及び累積度数分布図



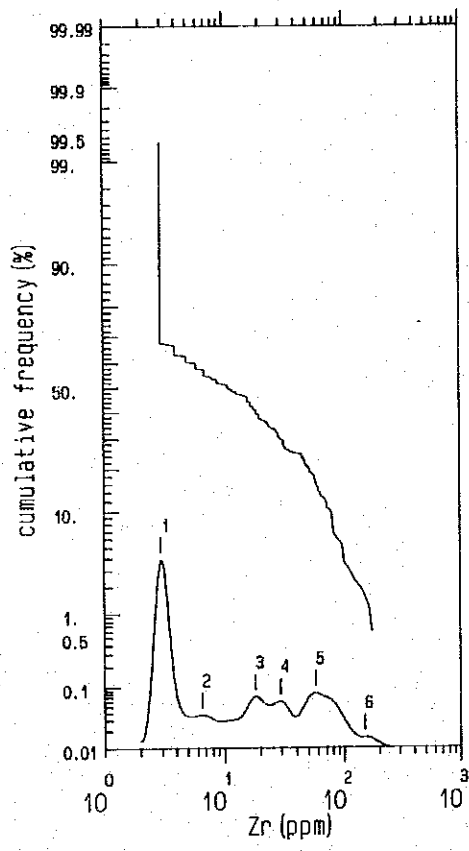




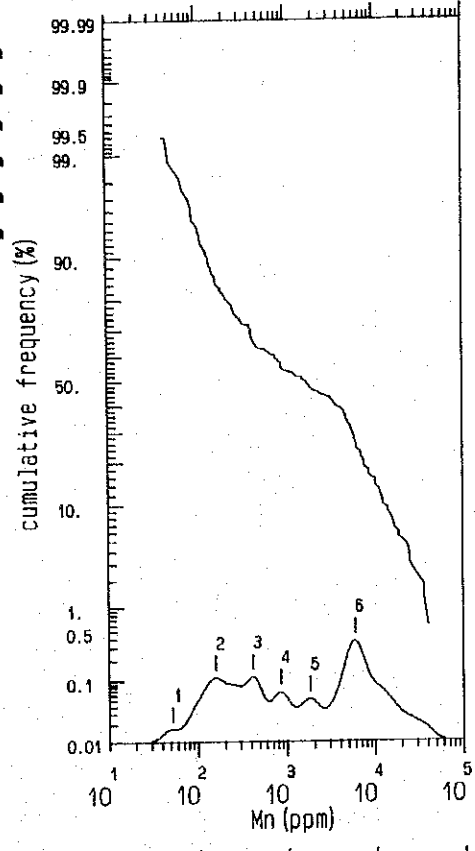
C-4 カルクフェルド地域地化学分析値の度数分布図及び累積度数分布図(1)



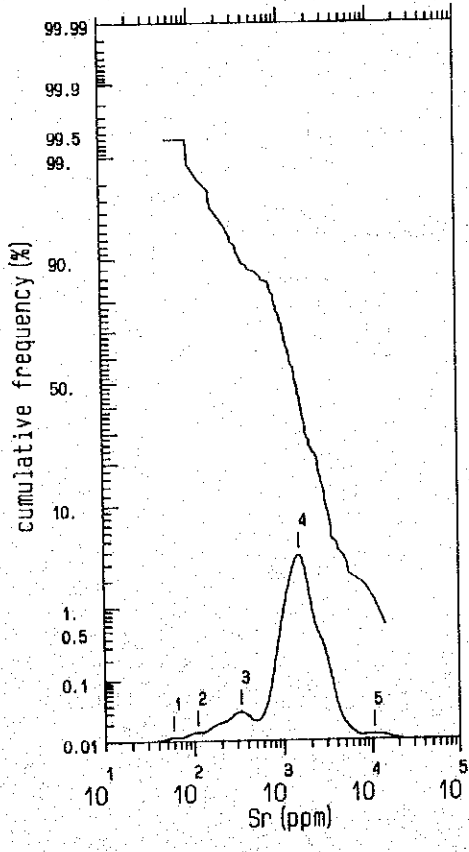
C-4 カルグフェルド地域地化学分析値の度数分布図及び累積度数分布図 (2)



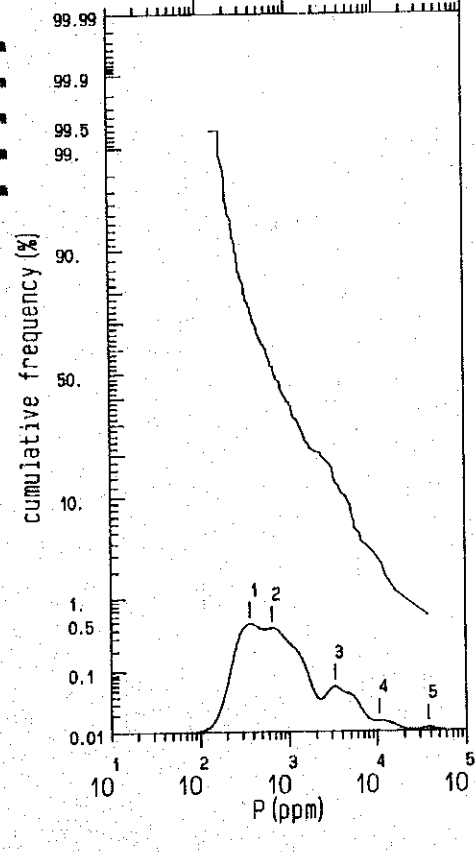
- 1 3.00 ppm
- 2 6.54 ppm
- 3 10.20 ppm
- 4 29.43 ppm
- 5 57.31 ppm
- 6 151.36 ppm



- 1 52.95 ppm
- 2 158.83 ppm
- 3 423.08 ppm
- 4 862.70 ppm
- 5 1612.14 ppm
- 6 5941.90 ppm

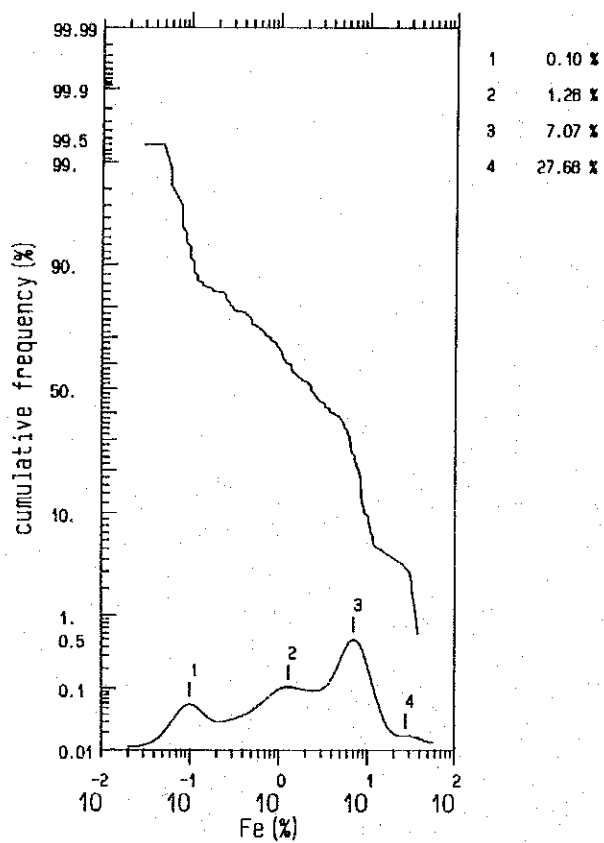


- 1 58.11 ppm
- 2 110.58 ppm
- 3 336.71 ppm
- 4 1486.10 ppm
- 5 10495.60 ppm



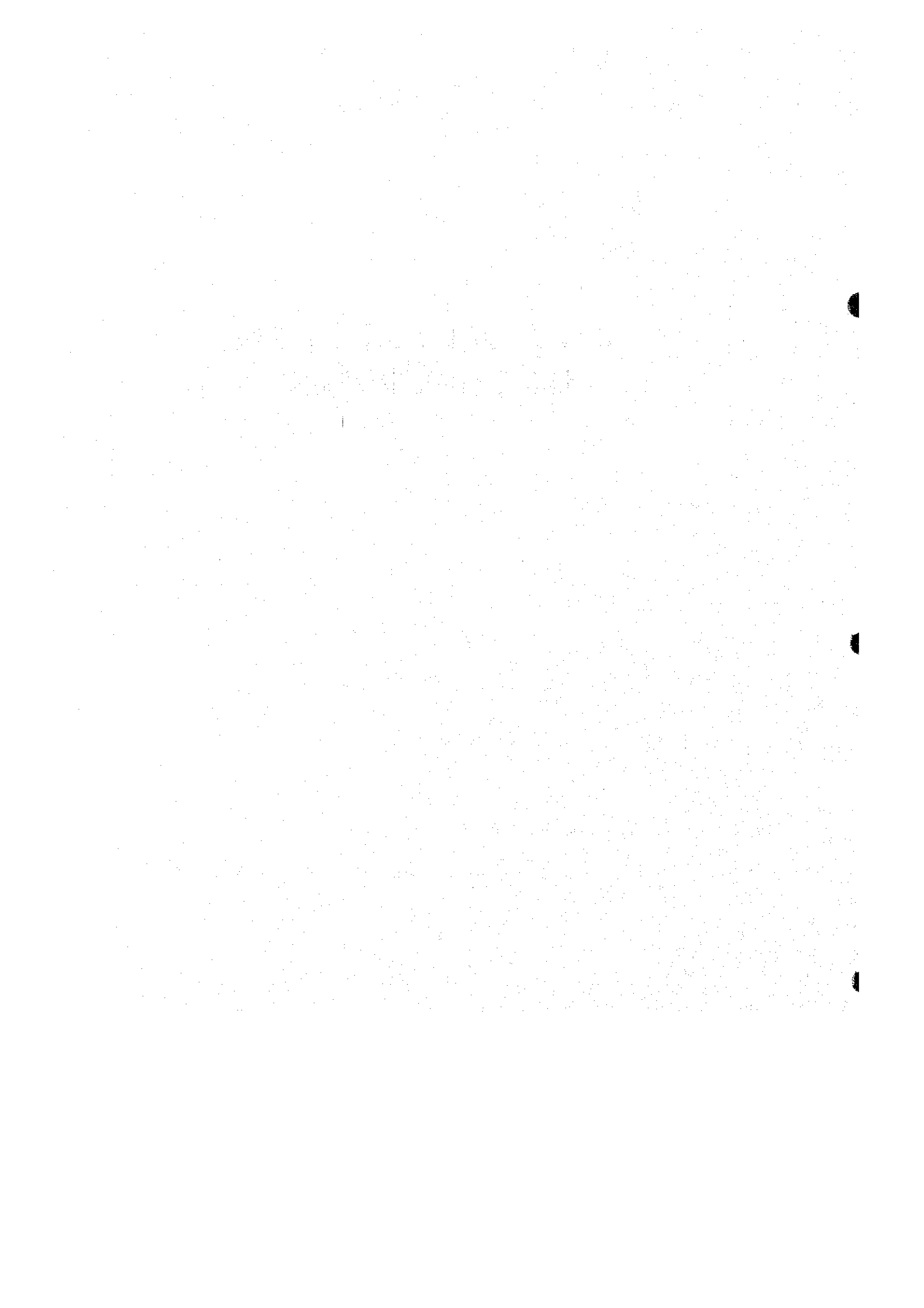
- 1 369.73 ppm
- 2 655.46 ppm
- 3 3305.88 ppm
- 4 10651.66 ppm
- 5 37914.80 ppm

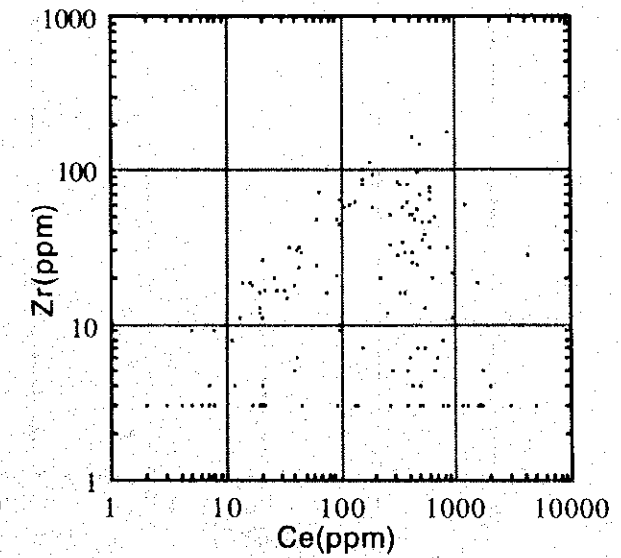
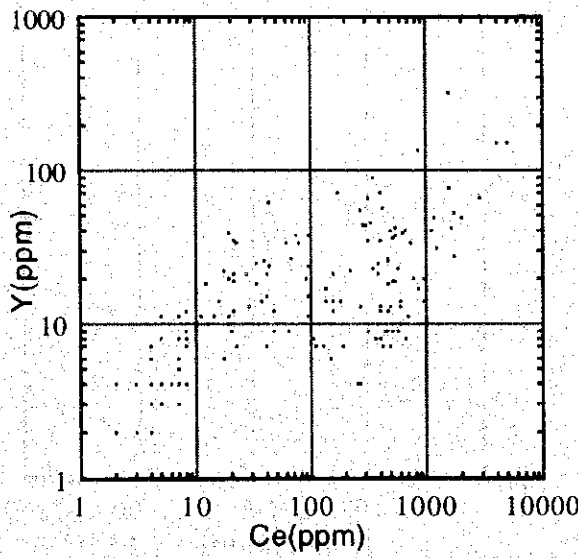
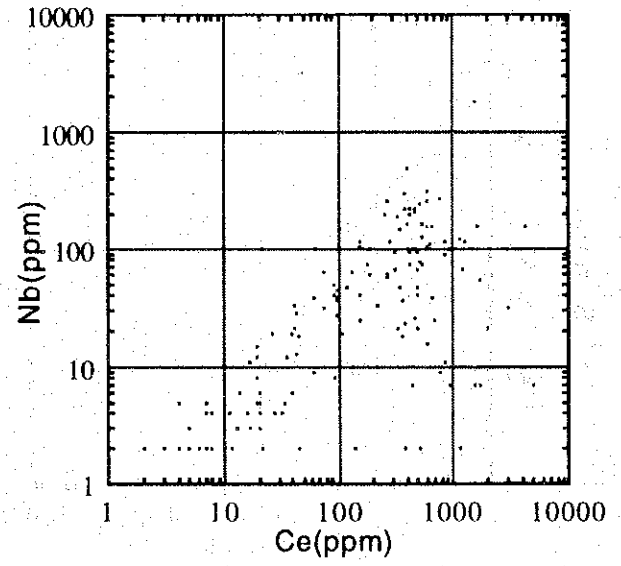
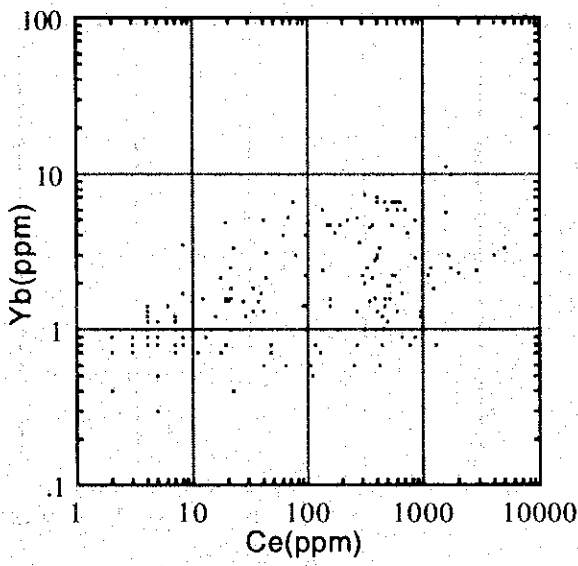
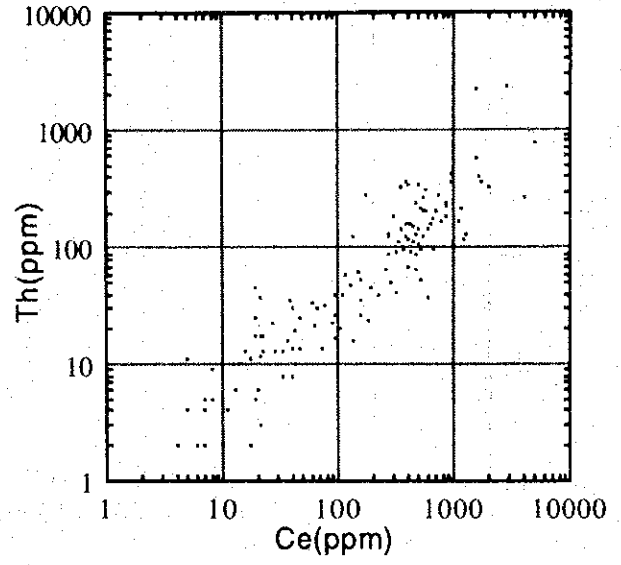
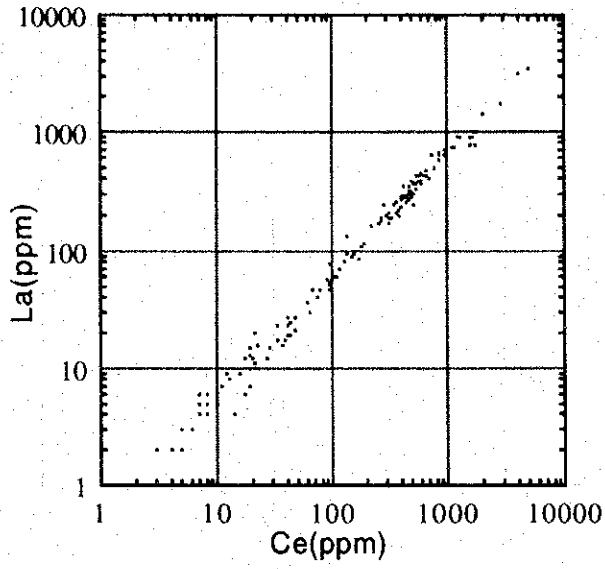
C-4 カルクフェルド地域地化学分析値の度数分布図及び累積度数分布図 (3)



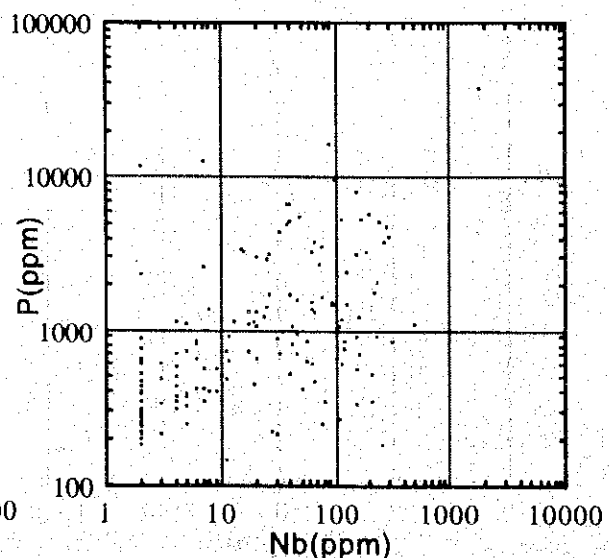
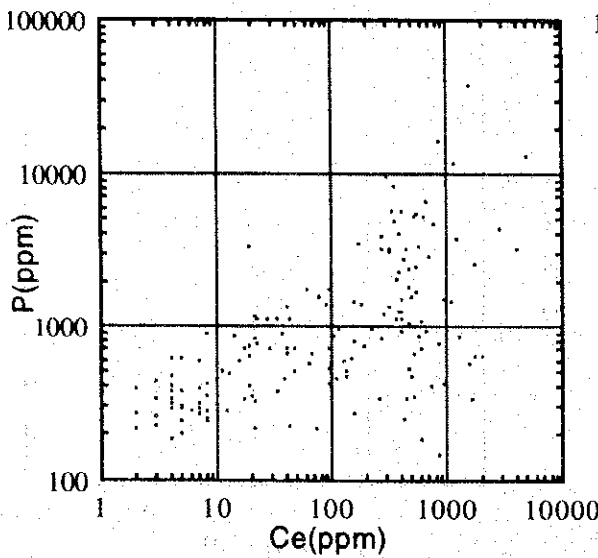
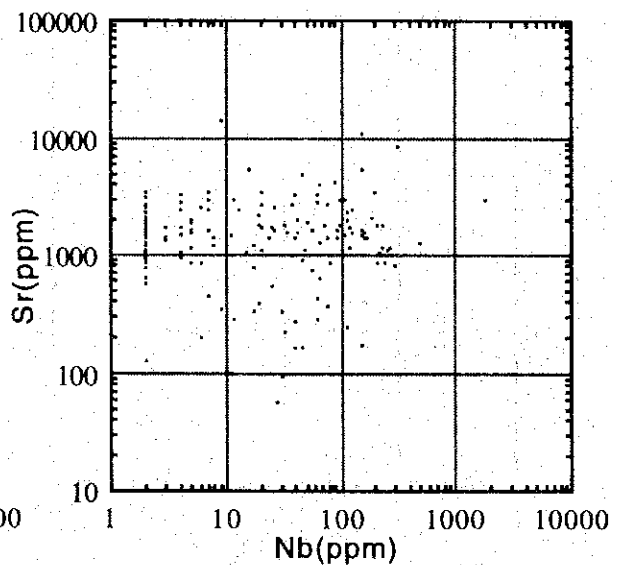
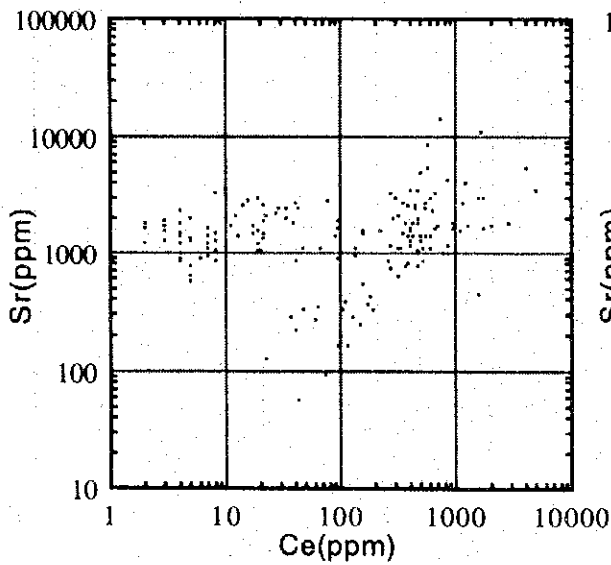
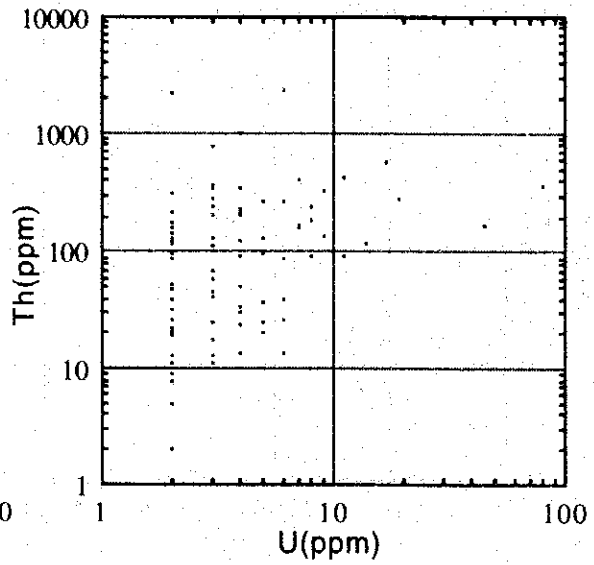
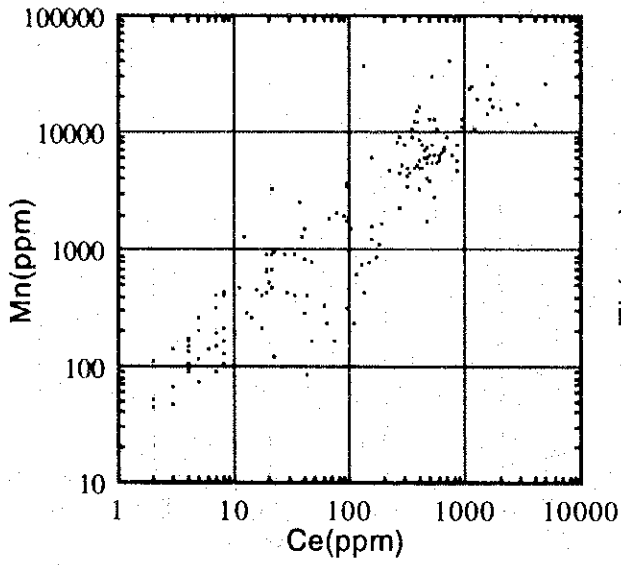
C-4 カルクフェルド地域地化学分析値の度数分布図及び累積度数分布図(4)

C-5 カルクフェルド地域  
地化学分析値の散布図





C-5 カルクフェルド地域地化学分析値の散布図(1)



C-5 カルクフェルド地域地化学分析値の散布図 (2)





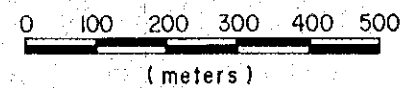
# GEOLOG

**GEOLOGICAL MAP OF THE KALKFELD AREA**



**LEGEND**

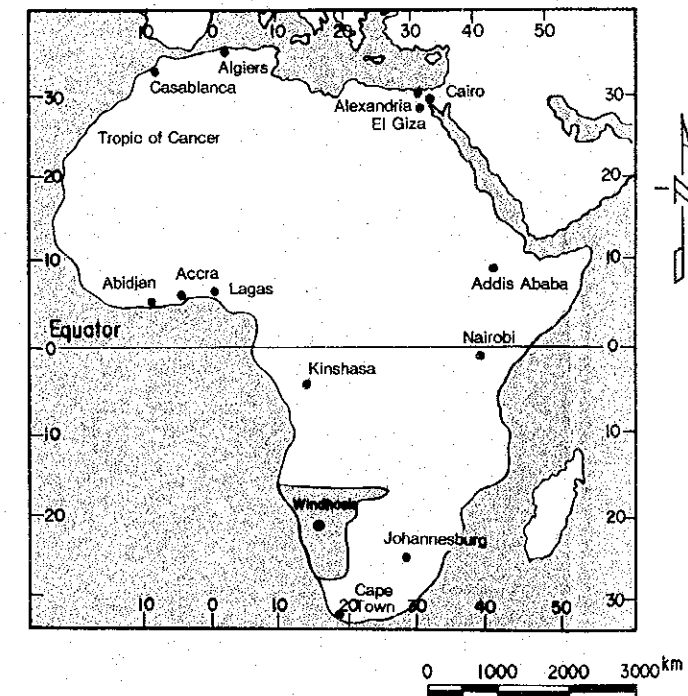
- Dolerite
- Iron ore
- Beforsite
- Volcanic breccia
- Brecciated granite and Damara marble
- Pegmatitic granite
- Biotite granite
- marble
- Dip and strike of banding structure in carbonatite
- Dip and strike of foliation in marble
- Fault
- Track
- Dry river
- Geological section



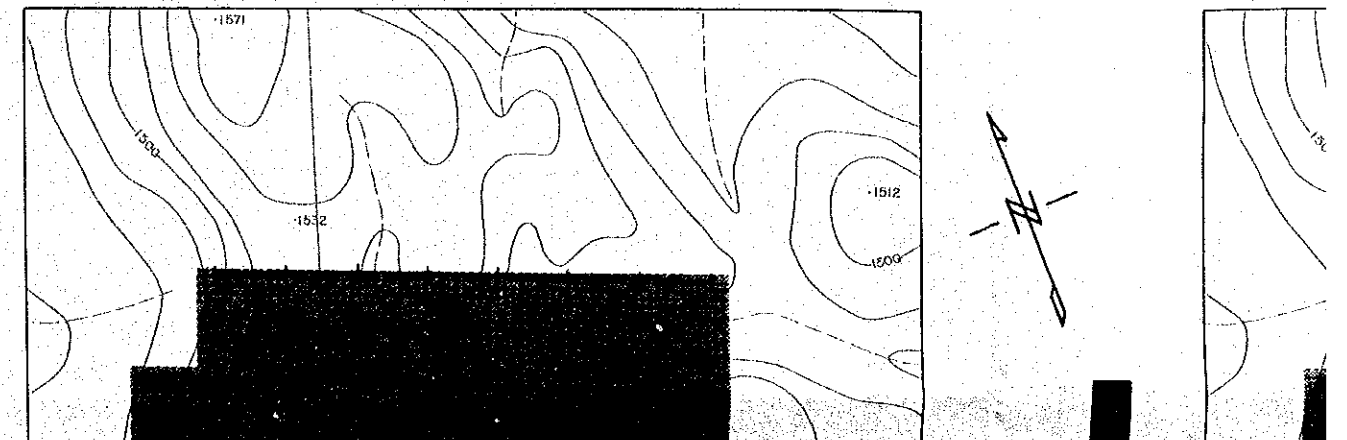
**GEOLOGICAL SECTION OF THE KALKFELD AREA**



**LOCATION MAP OF NAMIBIA**

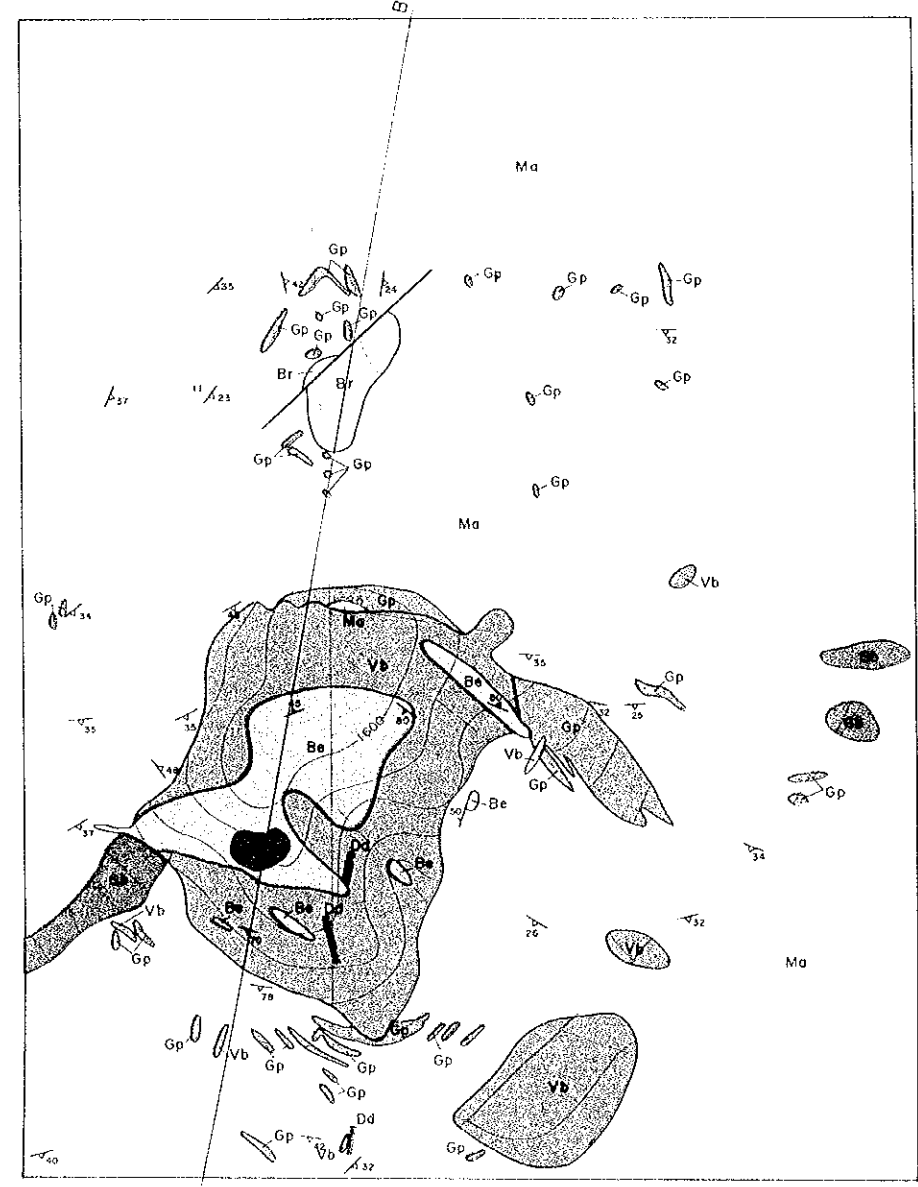


**PHOSPHOROUS (P) DISTRIBUTUION OF THE KALKFELD AREA**



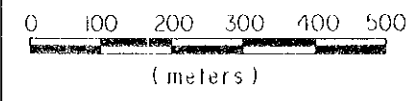
**RARE THE K**

## GEOLOGICAL MAP OF THE KALKFELD AREA

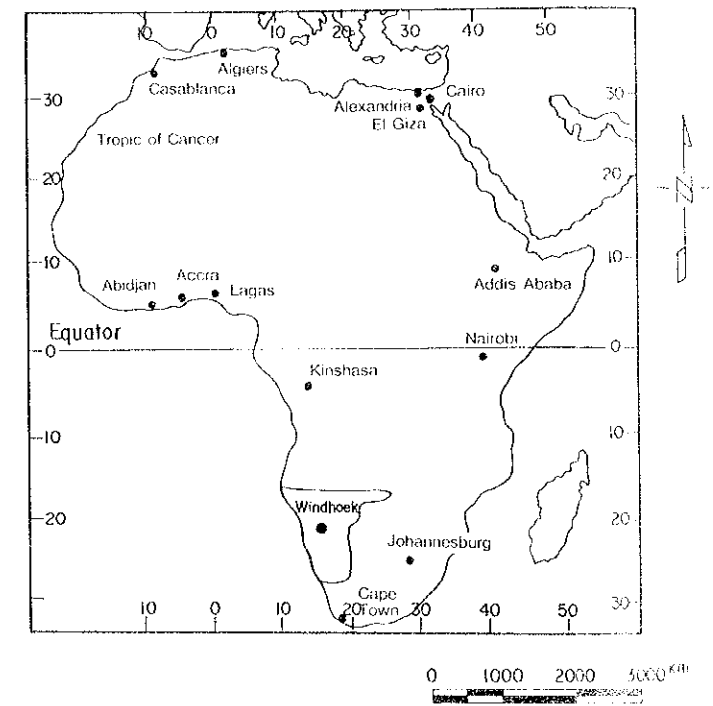


## LEGEND

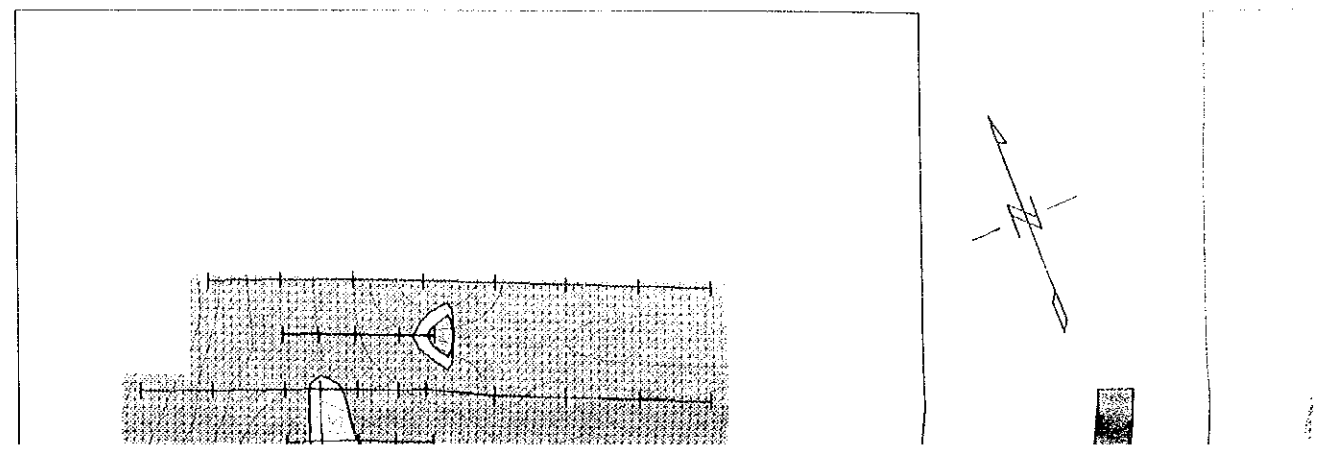
- Post-Karoo Intrusions**
  - Diorite
- Osongombo Diatreme**
  - iron ore
  - Beforsite
  - Volcanic breccia
- Damaran Granitoid**
  - Brecciated granite and Damara marble
  - Pegmatitic granite
  - Biotite granite
- Damaran Sequence**
  - marble
- Dip and strike of banding structure in carbonatite
- Dip and strike of foliation in marble
- Fault
- Track
- Dry river
- Geological section



## LOCATION MAP OF NAMIBIA



## PHOSPHOROUS (P) DISTRIBUTUION OF THE KALKFELD AREA



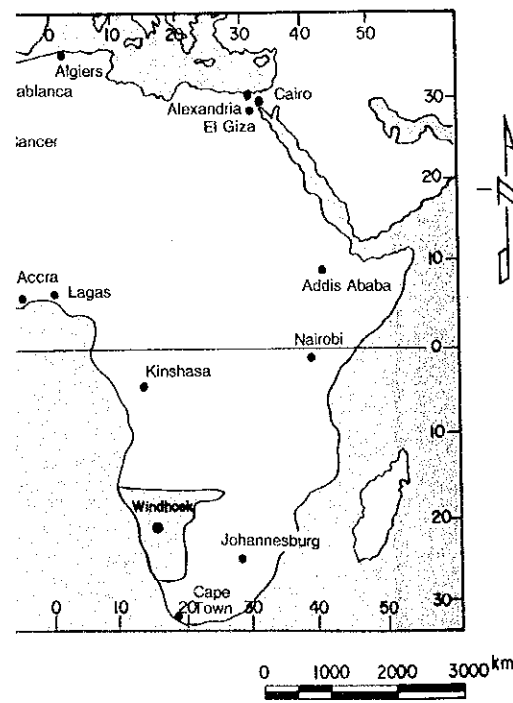
## GEOLOGICAL SECTION OF THE KALKFELD AREA



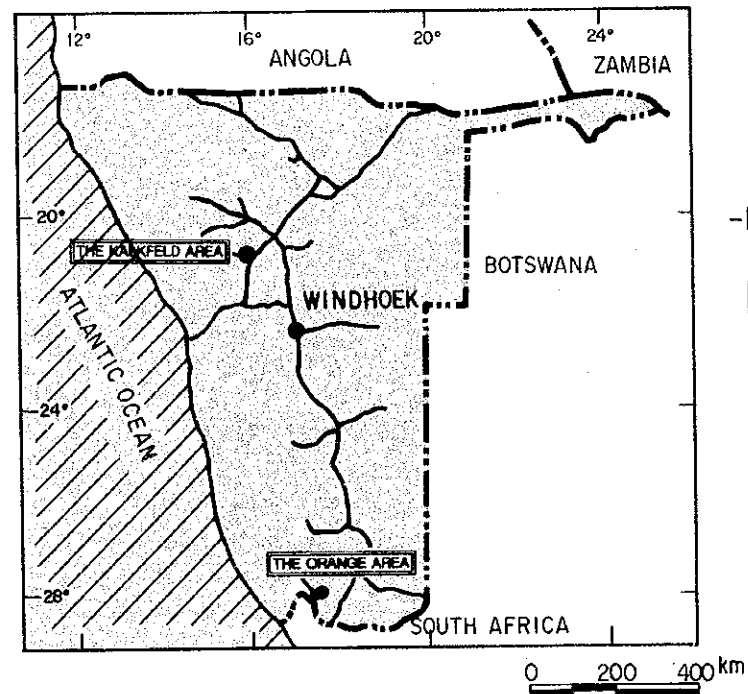
RARE  
TITIC K

# GEOLOGY AND ORE DEPOSITS OF THE ORANGE THE REPUBLIC OF NAMIBIA

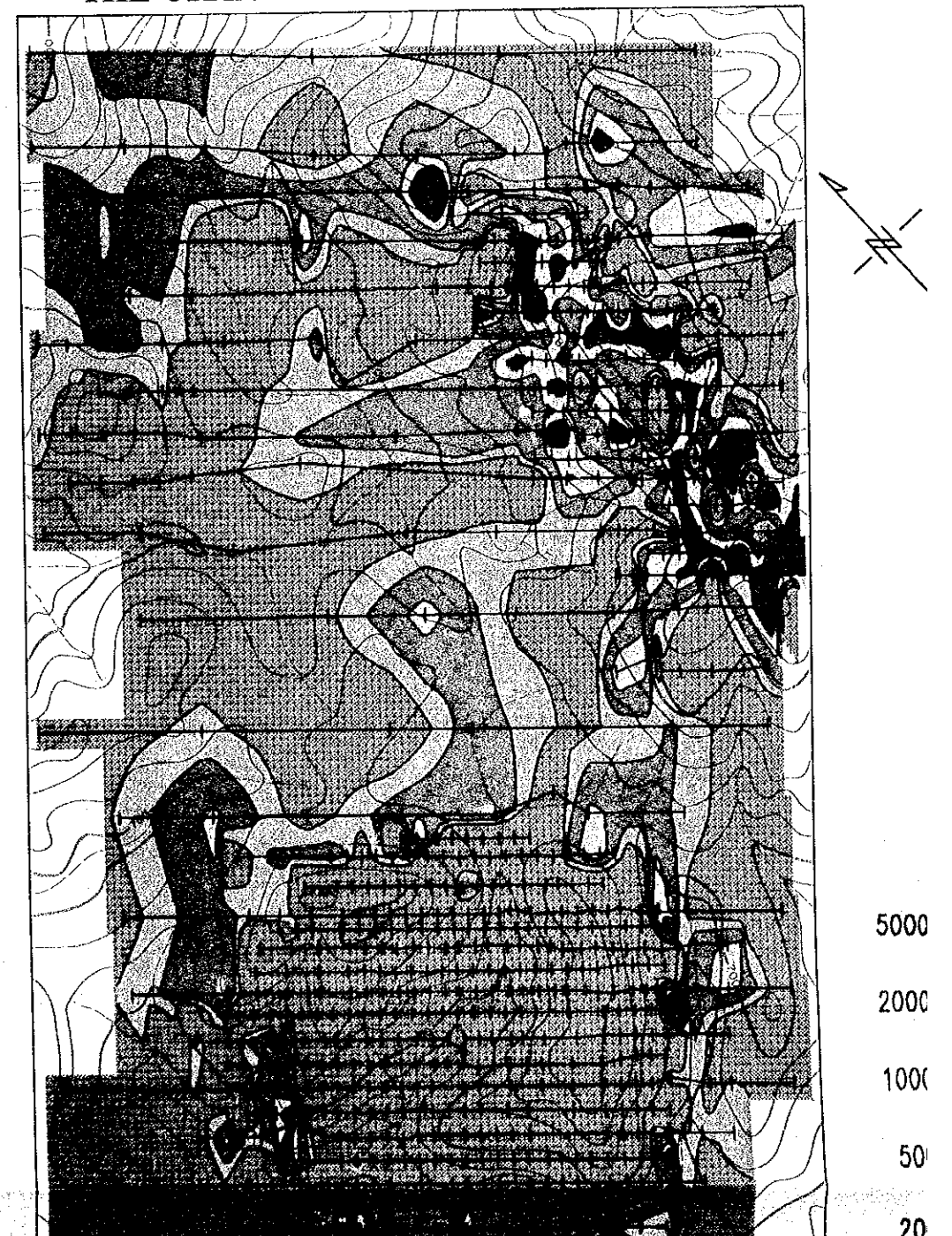
LOCATION MAP OF NAMIBIA



LOCATION MAP OF THE SURVEY AREAS

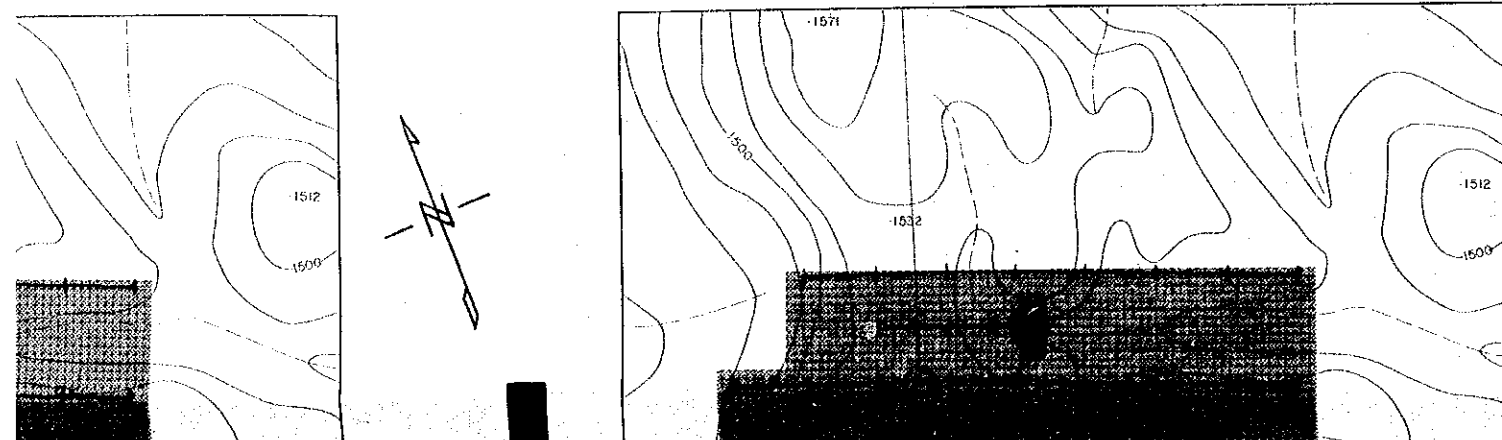


PHOSPHOROUS (P) DISTRIBUTUION OF  
THE ORANGE AREA



DISTRIBUTION OF

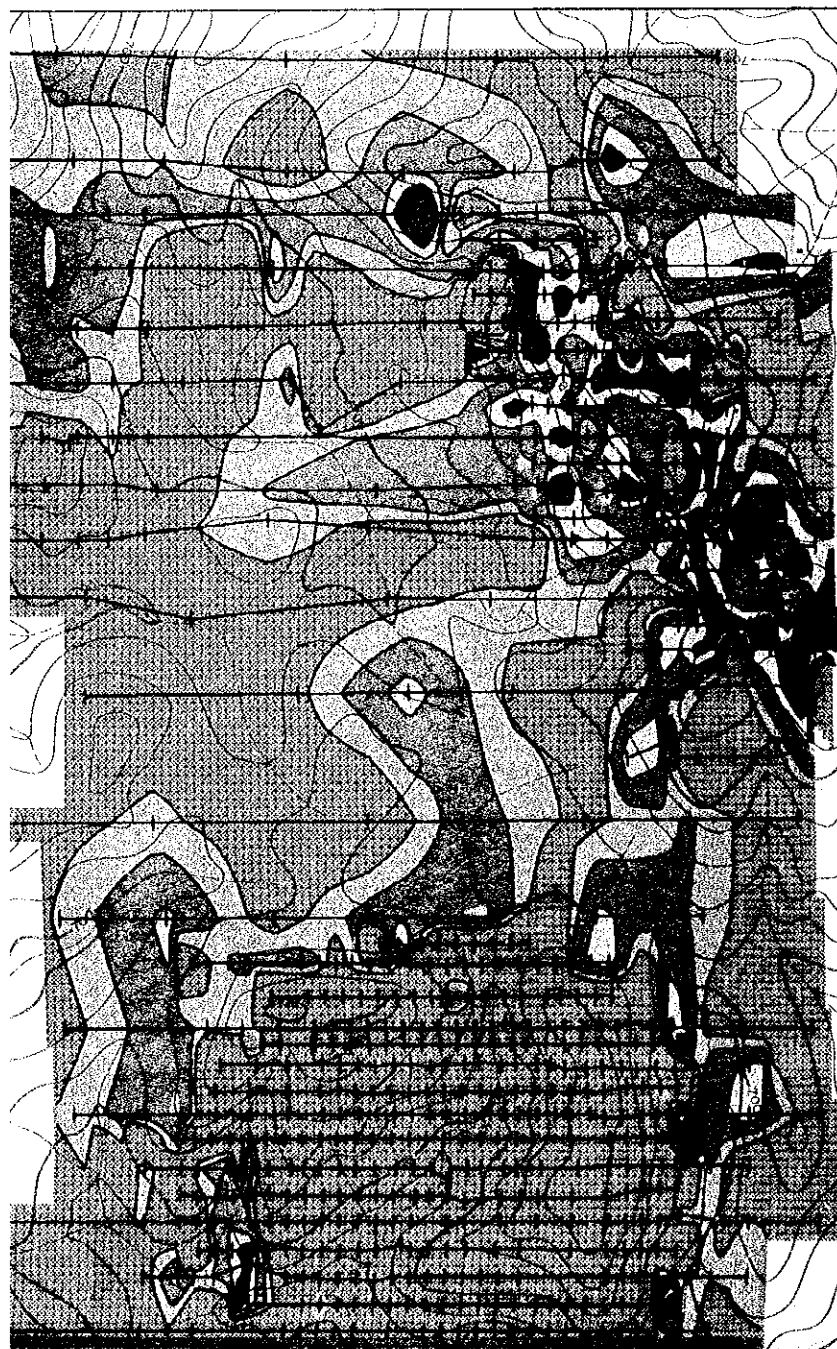
RARE EARTH OXIDES (R2O3) DISTRIBUTION OF  
THE KALKFELD AREA



# OF THE ORANGE AND KALKFELD AREAS, PUBLIC OF NAMIBIA

THE COOPERATIVE MINERA

PHOSPHOROUS (P) DISTRIBUTUION OF  
THE ORANGE AREA



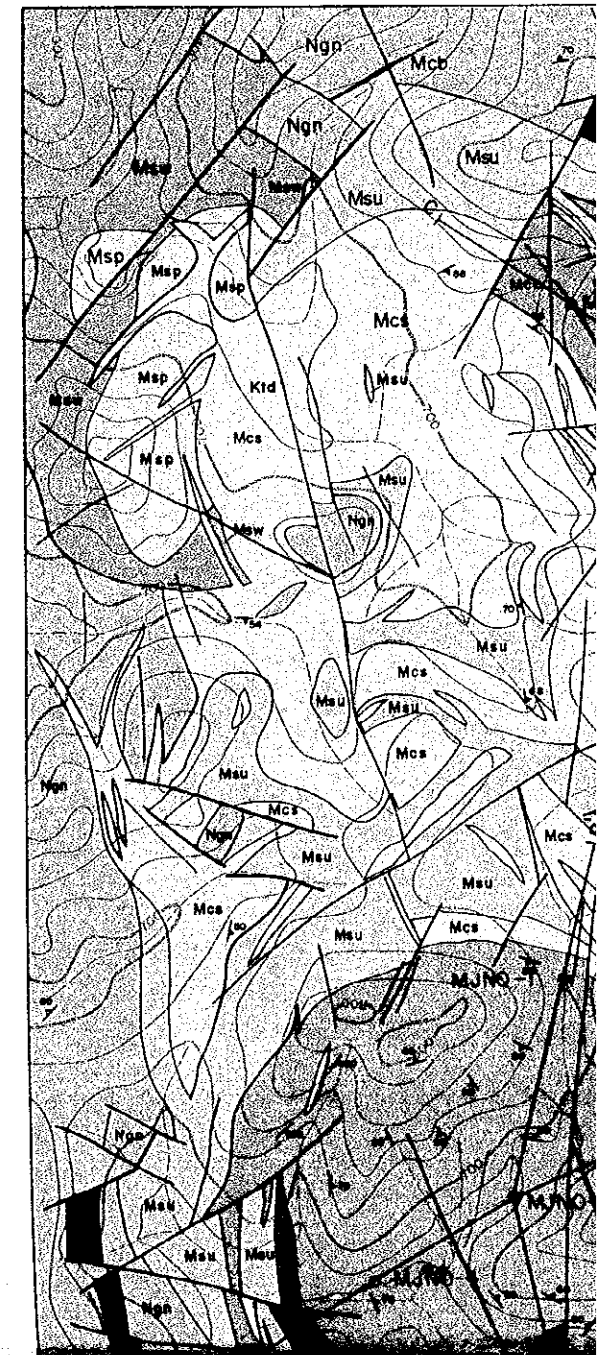
50000  
20000  
10000  
5000

RARE EARTH OXIDES (R2O3) DISTRIBUTION  
OF THE ORANGE AREA



20000  
10000  
5000  
2000

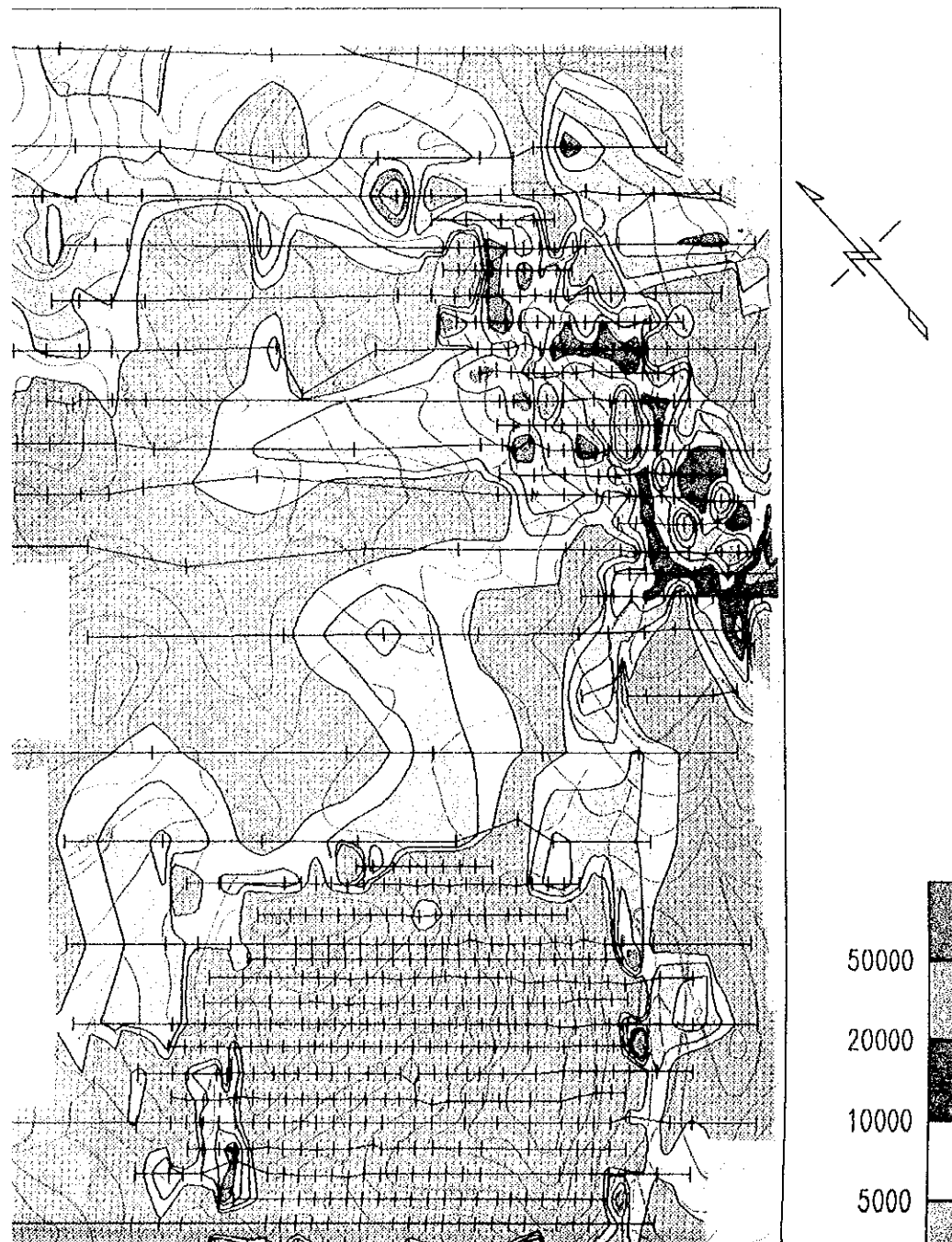
GEOLOGICAL MAP OF THE



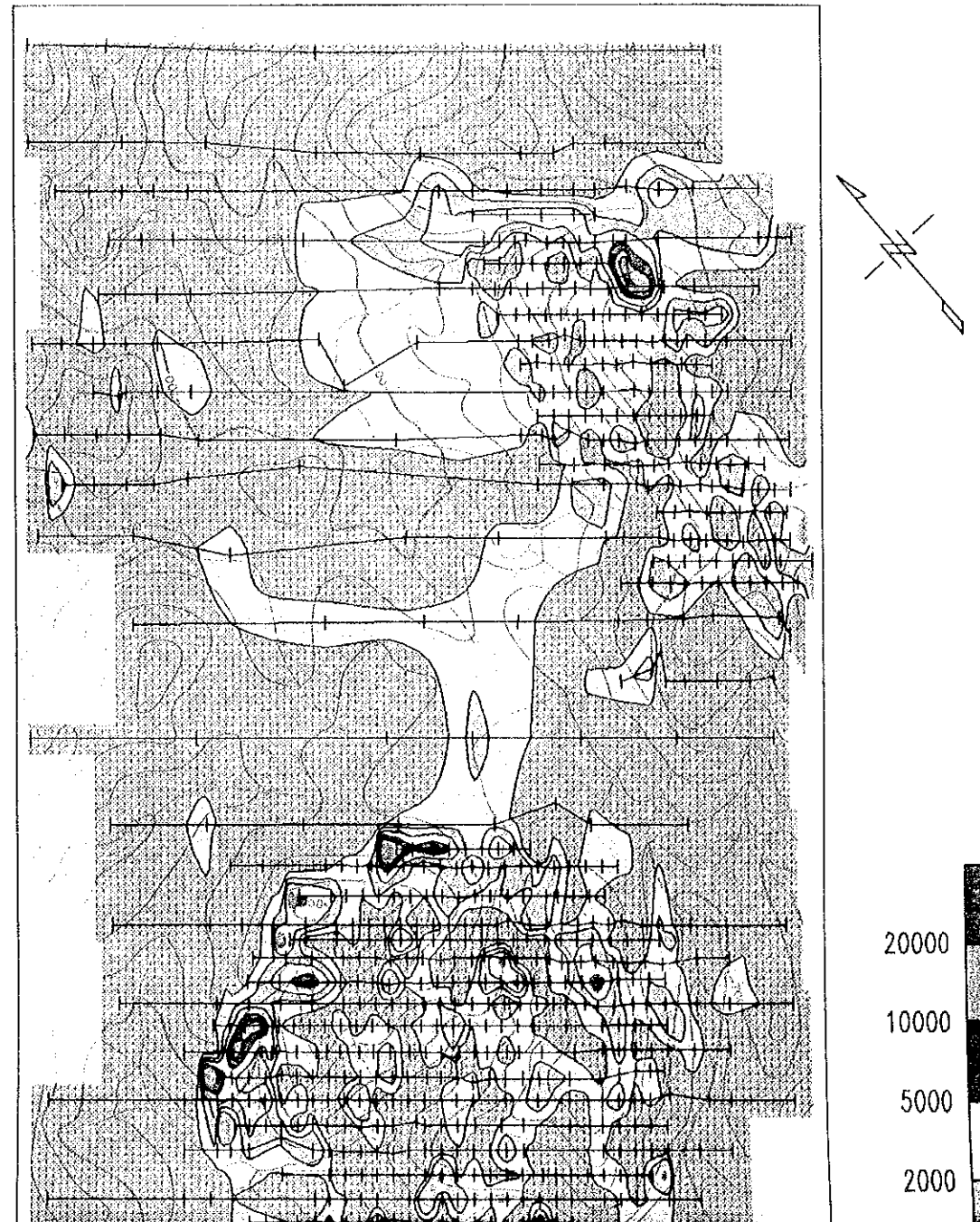
# OF THE ORANGE AND KALKFELD AREAS, UBLIC OF NAMIBIA

THE COOPERATIVE MINERA

PHOSPHOROUS (P) DISTRIBUTUION OF  
THE ORANGE AREA



RARE EARTH OXIDES (R2O3) DISTRIBUTION  
OF THE ORANGE AREA



GEOLOGICAL MAP OF THE

