



Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Innlegging av nye rapporter ved: Stig

Bergvesenet rapport nr

6205

Intern Journal nr

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Rapport lokalisering

Gradering

Kommer fra arkiv

Elkem A/S

Ekstern rapport nr

Oversendt fra

Elkem A/S

Fortrolig pga

Fortrolig fra dato:

Tittel

Diamantborhull Andørja 1961.

Forfatter

Geis

Dato

År

1962

Bedrift (oppdragsgiver og/eller oppdragstaker)

Elkem A/S

Kommune

bestad

Fylke

Troms

Bergdistrikt

1: 50 000 kartblad

13321

1: 250 000 kartblad

Narvik

Fagområde

Boring

Dokument type

Forekomster (forekomst, gruvefelt, undersøkelsesfelt)

Andørja

Råstoffgruppe

Malm/metall

Råstofftype

Fe

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

Ringperm som inneholder farvelagt borhullsbeskrivelse, borhullskoordinater samt at noen analyser også er påført.

DATE: 9/10-74

MÅLT AV: A.N.

STED: Lidmål m. l. Andørja.

REGNET AV:

SIKT		Hv	Vv	I	i	S	lh	lm	Rv	I sin a	ΔH	ΔHm	ΔX	ΔY	X	Y	Z	PKT.
FRA	TIL																	
Grupa	Lidmål	0				1.50			15.145						316165.04	18218.53	353.65	Grupa
-"	S ₁	219.51	101.44	70.00	-"		69.964	69.964	235.655	1.583	0.083	0.094	59.351	36.232	315105.189	18232.298	353.556	S ₁
S ₁	Grupa	0	98.54	-"		1.50	69.963		1.604	0.104								
S ₁	S ₂	201.00	105.23	59.75			59.348	59.348	235.655	1.886	1.891		50.280	31.528	315054.909	18200.770	348.115	S ₂
S ₂	S ₁	0	94.46	-"			59.346		1.896									
S ₂	S ₃	199.51	111.11	62.50			65.465	65.464	235.655	11.542	11.547		55.728	34.349	314999.181	18166.421	337.118	S ₃
S ₃	S ₂	0	88.88	-"			65.462		11.552									
S ₃	S ₄	199.92	92.88	28.80			28.768	28.768	235.655	0.958	0.954		24.497	15.083	314974.184	18151.338	338.072	S ₄
S ₄	S ₃	0	102.10	-"			28.769		0.949									
S ₄	1	200.50	104.93	50.00			49.201		235.655	3.857			42.116	26.390	314932.563	18124.948	334.215	Point 1

DATO: 11/10-74

MÅLT AV: A.N.

STED:

44 mil m 2. Andöja

REGNET AV:

SIKT		Hv	Vv	l	I	S	lh	lm	Rv	I sin a	ΔH	ΔHm	ΔX	ΔY	X	Y	Z	PKT.
FRA	TIL																	
Gröpa	Liböingen	O			1.415				15.145						315165.040	18268.530	353.65	Gröpa
--	S ₁	72.704	105.25	160.00	--		158.915	158.913	87.849	73.134	11.719	11.732	30.148	156.022	315195.188	18424.559	341.918	S ₁
S ₁	Gröpa	O	+5.26 94.44	--		1.415	158.910			13.160	11.745							
S ₁	S ₂	220.87	106.09	75.00			74.316	74.313	108.719	71.31	71.49		10.146	73.617	315185.042	18498.174	334.769	S ₂
S ₂	S ₁	O	+6.12 93.88	--			74.309			7.166								
S ₂	S ₃	232.09	124.04	96.00			82.949	82.944	140.809	32.902	32.908		49.602	66.478	315135.44	18514.152	301.861	S ₃
S ₃	S ₂	O	+24.05 75.95	--			82.939			32.913								
S ₃	PK 3	256.64	137.33	99.50			69.035		193.449	45.861			68.978	2.765	315066.462	18567.417	256.00	Punkt 2

														DATE: 14/10 - 74		MALT AV: AN			
STED: Lidmal on 3 of 4. Andoya														REGNET AV:					
SIKT		Hv	Vv	I	I	S	Ih	Im		Rv	I sin a	ΔH	ΔHm	ΔX	ΔY	X	Y	Z	PKT.
FRA	TIL																		
Lines	Merel	O				1225				44216						315437180	19604560	2.800	Lines
-4-	S	236.920	22.92 72.02	26.00	-11		22.770	22.772		281.136	8.576	9.801	9.799	66.49	21.280	315430.531	19582.780	12.599	S ₁
S ₁	Lines	O	122.92	-4-		1225	22.773			8.572	9.797								
S ₁	S ₂	199.146	+19.30 82.70	290.00			26.9106	26.9119		280.282	74.985	74.965		82.027	256.314	315348.504	19226.466	87.564	S ₂
S ₂	S ₁	O	117.29	-11			26.9132			74.945									
S ₂	Pkt 4	163.475	106.35 +10.93	19.35		S ₂ 0.40	19.254			243.257	1.927	1.527		14.882	12.216	315333.622	19314.250	86.037	Punkt 4
S ₂	S ₃	200.805	79.07	133.00			119.135	119.135		281.087	40.643	40.643		34.875	113.916	315313.629	19212.550	128.207	S ₃
S ₃	S ₂	O	120.93	-4-			119.135			40.643									
S ₃	Pkt 3	194.885	+9.96 90.24	231.00		S ₂ 0.40	225.613			275.922	34.863	34.463		83.146	209.483	315230.485	19002.817	162.670	Punkt 3

STED: Lilsmål om 5 og 6. Andøya.															DATO: 15/10-74		MÅLT AV: A.N.		
REGNET AV:																			
SIKT		Hv	Vv	I	i	S	I h	I m		R v	I sin α	Δ H	Δ Hm	Δ X	Δ Y	X	Y	Z	PKT.
FRA	TIL																		
Lilsmål	Nasset	○			1.055					44.216						315437.18	19604.56	2.80	Lilsmål
-	PK 5		378.110	101.12	81.00	-		80.988		22.326	1.425	0.370		+ 0	+	315513.239	19632.383	2.43	Punkt 5.
-	S ₁		380.724	96.90	192.00	-		191.722	191.524	24.940	9.347	10.402	10.359	+ 0	+	315614.194	19677.686	13.159	S ₁
S ₁	Lilsmål	○		103.08	191.50		1.055	191.276			9.261	10.316							
S ₁	S ₂		209.025	100.21	165.75			165.748	165.123	33.965	0.547	0.560		+ 0	+	315756.399	19761.917	12.599	S ₂
S ₂	S ₁	○		99.78	165.50			165.498			0.543								
S ₂	PK-6		215.298	105.81	103.00		S ₂ 1.00	106.555		49.263	9.752	10.752		+ 0	+	315833.012	19836.385	1.847	Punkt 6.
Nasset	Lilsmål	○				1.435				244.216						316119.23	20172.700	15.31	Nasset
-	PK-7		60.635	107.90	121.00	-	S ₂ 0.30	120.070		304.251	14.976	13.571		+	+ 0	316128.370	20052.978	1.769	Punkt 7.

Borhulls-koordinater / Andørja

(tatt ut fra kart i M 1:500, 1:1000 og 1:2000)

Borhull	X	Y
A 8v Grop 1-11	315.299.2	18.624.4
9v " 1-11	315.323.3	18.539.6
10v Gropa 1-13	315.475.5	18.501.3
11v Gropa 1-13	315.628.2	18.547.3
12v " 1-18	315.590.0	18.659.6
0-191.59 13v Gropa	315.740.5	18.370.3
14v	315.542.1	18.396.1
0-12-23 15v +156 15-23 ¹⁵⁻²³	315.953.1	18.959.5
16v ks 12-21	315.752.2	18.845.3
17v ks 13-24	315.830.0	18.979.8
18v 0-10444 ^{221.61}	315.660.7	19.046.8
19v ks 12-23	315.862.0	19.201.0
20v 13-27	316.117.2	19.199.0
21v 0-328.75	316.356.5	19.341.5
22v 126.60 -229.35	316.302.1	19.144.1
37.70 -12830 23v walsura 3	315.345.8	18.777.3
24v 68.15 -166.03	315.476.3	18.951.4
25v 87.97 -176.08	315.598.8	19.164.4
26v 98.60 -187.93	315.727.5	19.246.6
88.79 -187.75 27v	315.800.0	19.346.6
0-236.93 28v	315.917.7	19.489.9
0- 254.34 29v	316.020.2	19.612.1
0-31.68 101v	315.626.6	19.518.5
0-30.1- 102v	315.557.6	19.544.2
0-30.45 103v	315.503.6	19.420.3
0-29.95 104v	315.474.7	19.241.6
0-23.52 105v	315.661.1	19.341.9
0-31.35 106v	315.392.8	19.059.2
0-29.77 107v	315.421.8	19.002.8
0-30.53 108v	315.292.2	18.735.6
0-25.51 109v	315.225.2	18.763.2
0-30.1- 110v	315.212.1	18.536.7
0-29.74 111v walsura 3	315.275.0	18.760.4
0-25.49 112v	315.678.1	19.700.0
0-32.17 113v	315.667.1	19.680.3
0-37.89 114v	315.647.2	19.664.1
0-37.14 115v	315.620.0	19.635.8

A	116	0 - 37,31	315.586.8	19.528.8
13,15 - 38,46	117	0 - 13,15	315.554.0	19.507.4
0 - 34,87	118		315.546.4	19.479.7
0 - 30,20	119		315.524.2	19.449.5
0 - 41,42	120		315.574.0	19.554.7
0 - 40,73	121		315.585.6	19.584.2
0 - 42,41	122		315.598.3	19.605.9
0 - 23,60	123	Gropen	315.173.1	18.191.1
0 - 37,90	124	Gropen	315.199.9	18.222.8
0 - 46,97	125	Gropen, and 13	315.256.3	18.260.0
0 - 50,25	126	- - -	315.281.5	18.291.5
0 - 75,98	v3a	Gropen	315.691.1	18.321.6
0 - 109,90	v3b	"	315.631.4	18.355.6
0 - 97,35	v4b	"	315.607.7	18.328.1
0 - 125,94	v1c	"	315.587.3	18.450.0
0 - 109,21	v3c	"	315.581.4	18.370.0
0 - 52,29	v5c		315.571.0	18.239.1
0 - 107,60	1d	"	315.530.9	18.471.5
0 - 107,60	v3d	"	315.520.0	18.376.2
0 - 81,99	v4d	"	315.501.1	18.328.7
0 - 62,70	v5d	"	315.497.0	18.278.9
has 116	{5/6d}	0 - 30,50	315.467.5	18.247.5
0 - 39,20	6d		315.479.7	18.220.2
0 - 92,26	v2e	"	315.471.5	18.437.1
0 - 105,20	3e	"	315.467.6	18.398.6
0 - 87,94	v4e	"	315.456.6	18.348.6
115,1 - 7	5e	"	315.443.0	18.283.2
0 - 41,42	6e	"	315.430.5	18.241.0
0 - 99,77	1f	115,1 - 115,1	315.433.7	18.507.0
115,1 - 9	2f	"	315.426.1	18.449.7
0 - 97,56	v4f	"	315.399.3	18.356.1
115,1 - 6,7	5f	"	315.387.5	18.304.3
has 116	{6f}	0 - 35,90	315.382.9	18.247.2
has 116	{7f}	0 - 24,28	315.368.4	18.194.8
0 - 79,36	v4g	"	315.356.8	18.369.7
115,1 - 8	v5g	"	315.344.4	18.320.7
has 116	6g	0 - 42,27	315.333.3	18.269.9
115,1 - 10	3h	"	315.305.7	18.464.2
0 - 69,71	5h	"	315.295.6	18.327.4
has 116	7h	0 - 34,65	315.299.0	18.205.0
0 - 98,60	1i	"	315.287.0	18.550.5
0 - 82,08	2i	"	315.250.4	18.489.9
0 - 95,97	3i	"	315.260.2	18.456.7
0 - 47,07	4i	"	315.194.8	18.379.1

Samuel Haring And Sons

5/14/57 1957
3/11/58 1958

A 1	1942		36 in		
A 2	1942		75,05		
A 3	"		27,-		
A 4	"		53,70		
A 5	"		112,-		
A 6	"		18,-		
A 7	"		111,30		
A 8	1958	36 in	97,90	628,94	
A 9	"	"	110,15		
A 10	"	"	118,35		
A 11	"	"	126,90		
A 12	"	"	168,19	1948,68	
A 13	1958	"	154,60		
A 14	"	"	300,90		
A 15	"	"	247,75		
A 16	"	"	250,50		✓
A 17	"	"	243,22		✓
A 18	"	"	223,-		✓
A 19	"	"	256,18		✓
A 20	"	"	262,53		
A 21	1960	"	328,68	328,68	✓
A 22	"	"	223,75		✓
A 23	"	"	131,36		✓
A 24	"	"	166,03	1900,52	✓
A 25	"	"	127,50		✓
A 26	"	"	187,93		

A 27	1960	36 mm	187,25	100,00	
A 28	"	"	236,98		
A 29	"	"	254,34		✓
A 101	1959	28 mm	31,68		✓
A 102	"	"	30,-		✓
A 103	"	"	30,95		✓
A 104	"	"	29,25		✓
A 105	"	"	29,52		
A 106	"	"	31,35	346,31	✓
A 107	"	"	29,77		✓
A 108	"	✓	24,85		✓
A 109	"	"	19,-		✓
A 110	"	"	30,-		
A 111	"	"	29,14		
A 112	1960	"	55,49		
A 113	"	"	32,17		
A 114	"	"	37,29		✓
A 115	"	"	38,03		
A 116	"	"	37,31		
A 117	"	"	38,46		
A 118	"	"	34,87		
A 119	"	"	30,20	588,06	
A 120	"	"	41,42		
A 121	"	"	40,73		
A 122	"	"	42,41		
A 123	"	"	23,60		
A 124	"	"	37,90		
A 125	"	"	46,76		

A 126	1960	28 mm	50,25.]	
A 3a	"	36 mm	75,98. ✓	✓
A 3b	"	"	109,90. ✓	✓
A 4b	"	"	97,35. ✓	
A 1c	"	"	125,94. ✓	
A 3c	"	"	109,21. ✓	✓
A 5c	"	"	52,89. ✓	✓
A 1d	"	"	107,60. ✓	✓
A 3d	"	"	108,25. ✓	
A 4d	"	"	81,99. ✓	
A 5d	"	"	62,70. ✓	62,72
A 5/6d	"	28 mm	30,53. ✓	✓
A 6d	"	36 mm	39,80. ✓	
A 2e	"	36 mm	92,86. ✓	
A 3e	"	"	105,20. ✓	
A 4e	"	"	87,74. ✓	
A 5e	"	"	68,80. ✓	68,68
A 6e	"	36 mm	41,48. ✓	
A 1f	"	36 mm	99,77. ✓	
A 2f	"	"	89,04. ✓	
A 4f	"	"	97,56. ✓	
A 5f	"	"	71,08. ✓	71,05
A 6f	"	28 mm	35,90. ✓	
A 7f	"	28 mm	24,28. ✓	
A 4g	"	36 mm	79,96. ✓	
A 5g	"	"	71,65. ✓	
A 6g	"	28 mm	42,27. ✓	
A 3h	"	36 mm	97,10. ✓	2h 8,79

A 5h	1960	36 mm	69,71 ✓	SL 1. for 13,31	✓
A 7h	"	28 mm	34,65		
A 1i	"	36 mm	98,60 ✓	57 L 301	4291,06
A 2i	"	"	83,08 ✓	1960: 36 mm:	4268,80
A 3i	"	"	95,97 ✓	" 28 mm:	755,68
A 4i	"	"	47,07 ✓	Control	<u>5024,48</u>
AA	1961	"	79,70		
AD	"	"	115,35		
AF	"	"	118,60		
AG	"	"	124,75		
AH	"	"	140,28		
AI	"	"	166,72		
AJ	"	"	185,01		
AK	"	"	173,86		
AL	"	"	183,80		
AM	"	"	169,60		
AN	"	"	213,89		
AO	"	"	231,27		
AR	"	"	254,52		
AS	"	"	265,20		
AT	"	"	276,30		
AU	"	"	270,90		
AV	"	"	299,-		
AW	"	"	37,40		
AY	"	"	302,26		
AZ	"	"	335,60		
AE	"	"	355,04		
AØ	"	"	369,49		

AA	1961	36 mm	178,25 m	điểm cuối hàng 1341.48+2.32
AMA	"	"	65,10	
AMC	"	28 mm	36,10	
AME	"	36 mm	92,33	
AMF	"	"	104,12	
AMG	"	"	93,95	
AML	"	"	126,40	
AMM	"	"	103,31	điểm đầu hàng 590,21
A128	"	28 mm	12,04	
A129	"	"	44,37	
A131	"	"	22,26	
A132	"	"	39,23	
A135	"	"	26,37	
A136	"	"	50,61	
A137	"	"	55,50	điểm cuối 28 mm 136,98 điểm " 116,69

KOORDINATER.

Borhull	X	Y	h.o.h.	h.o.h. undergrense Kuliberget
A	315.772,43	19.793,69	3.30	+ 54.56
D	315.701,45	19.584,00	57.60	+ 18.85
F	315.868,60	19.780,45	21.45	+ 71.85
G	315.931,60	19.871,05	6.05	+ 88.51
H	315.697,55	19.377,95	149.40	49.10
I	315.776,85	19.452,30	135.00	+ 3.07
J	315.839,10	19.557,70	113.50	+ 40.79
K	315.897,85	19.650,10	84.20	+ 68.80
L	315.983,10	19.748,10	64.40	+ 91.37
M	316.034,85	19.833,75	39.90	+112.43
N	315.865,55	19.417,25	179.30	1.22
Q	315.917,10	19.306,65	226.40	
R	315.974,00	19.384,30	207.70	+ 6.95
Y	316.173,95	19.467,60	202.50	+ 75.13
T	316.123,25	19.596,00	155.90	+ 99.48
U	316.182,60	19.691,70	132.90	+122.50
V	316.259,90	19.789,45	135.50	+145.69
S	316.058,25	19.495,85	173.70	+ 66.85
Z	316.257,80	19.553,20	202.00	+107.30
E	316.316,44	19.663,00	201.00	+132.58
Ö	316.390,65	19.753,75	192.60	+153.35
Å	316.130,05	19.927,15	34.30	+127.90

Prøveform

FM I

315.664,67

19.645,52

16.33

FM II

315.647,48

19.641,74

16.64

Borhulls-koordinater / Andørja
(tatt ut fra kart i M 1:500, 1:1000 og 1:2000)

Borhull	X	Y
A 8	315.299.2	18.624.4
9	315.323.3	18.539.6
10	315.475.5	18.501.3
11	315.628.2	18.547.3
12	315.590.0	18.659.6
13	315.740.5	18.370.3
14	315.542.1	18.396.1
15	315.953.1	18.959.5
16	315.752.2	18.845.3
17	315.830.0	18.979.8
18	315.660.7	19.046.8
19	315.862.0	19.201.0
20	316.117.2	19.199.0
21	316.356.5	19.341.5
22	316.302.1	19.144.1
23	315.345.8	18.777.3
24	315.476.3	18.951.4
25	315.598.8	19.164.4
26	315.727.5	19.246.6
27	315.800.0	19.346.6
28	315.917.7	19.489.9
29	316.020.2	19.612.1
101	315.626.6	19.518.5
102	315.557.6	19.544.2
103	315.503.6	19.420.3
104	315.474.7	19.241.6
105	315.661.1	19.341.9
106	315.392.8	19.059.2
107	315.421.8	19.002.8
108	315.292.2	18.735.6
109	315.225.2	18.763.2
110	315.212.1	18.536.7
111	315.275.0	18.760.4
112	315.678.1	19.700.0
113	315.667.1	19.680.3
114	315.647.2	19.664.1
115	315.620.0	19.635.8

	x	y
A 116	315.586.8	19.528.8
117	315.554.0	19.507.4
118	315.546.4	19.479.7
119	315.524.2	19.449.5
120	315.574.0	19.554.7
121	315.585.6	19.584.2
122	315.598.3	19.605.9
123	315.173.1	18.191.1
124	315.199.9	18.222.8
125	315.256.3	18.260.0
126	315.281.5	18.291.5
3a	315.691.1	18.321.6
3b	315.631.4	18.355.6
4b	315.607.7	18.328.1
1c	315.587.3	18.450.0
3c	315.581.4	18.370.0
5c	315.571.0	18.239.1
1d	315.530.9	18.471.5
3d	315.520.0	18.376.2
4d	315.501.1	18.328.7
5d	315.497.0	18.278.9
5/6d	315.467.5	18.247.5
6d	315.479.7	18.220.2
2e	315.471.5	18.437.1
3e	315.467.6	18.398.6
4e	315.456.6	18.348.6
5e	315.443.0	18.283.2
6e	315.430.5	18.241.0
1f	315.433.7	18.507.0
2f	315.426.1	18.449.7
4f	315.399.3	18.356.1
5f	315.387.5	18.304.3
6f	315.382.9	18.247.2
7f	315.368.4	18.194.8
4g	315.356.8	18.369.7
5g	315.344.4	18.320.7
6g	315.333.3	18.269.9
3h	315.305.7	18.464.2
5h	315.295.6	18.327.4
7h	315.299.0	18.205.0
1i	315.287.0	18.550.5
2i	315.250.4	18.489.9
3i	315.260.2	18.456.7
4i	315.194.8	18.379.1

Diamant borrhull Andörja.

Tegn förklaring.



malm, sterkt magnetisk
över 1:3,5

malm, magnetisk
1:3,5 - 1:4,5

malm, svakt magnetisk
under 1:4,5

granat-glimmerskifer (19)

marmor (10)

amfibolitt (15)

biotitskifer (21)

pegmatitt, kvarts (3)

aplitt (6)

rik på biotitt (21)



biotitt holdig (21)

rik på hornblende (15)

hornblende holdig (15)

M. 1:100

ca/100

malen

1.87%
1.12%

22%

73.00

76.00

malin

1.555

52.65

59.20

malin

1.555

61.00

65.00

malin

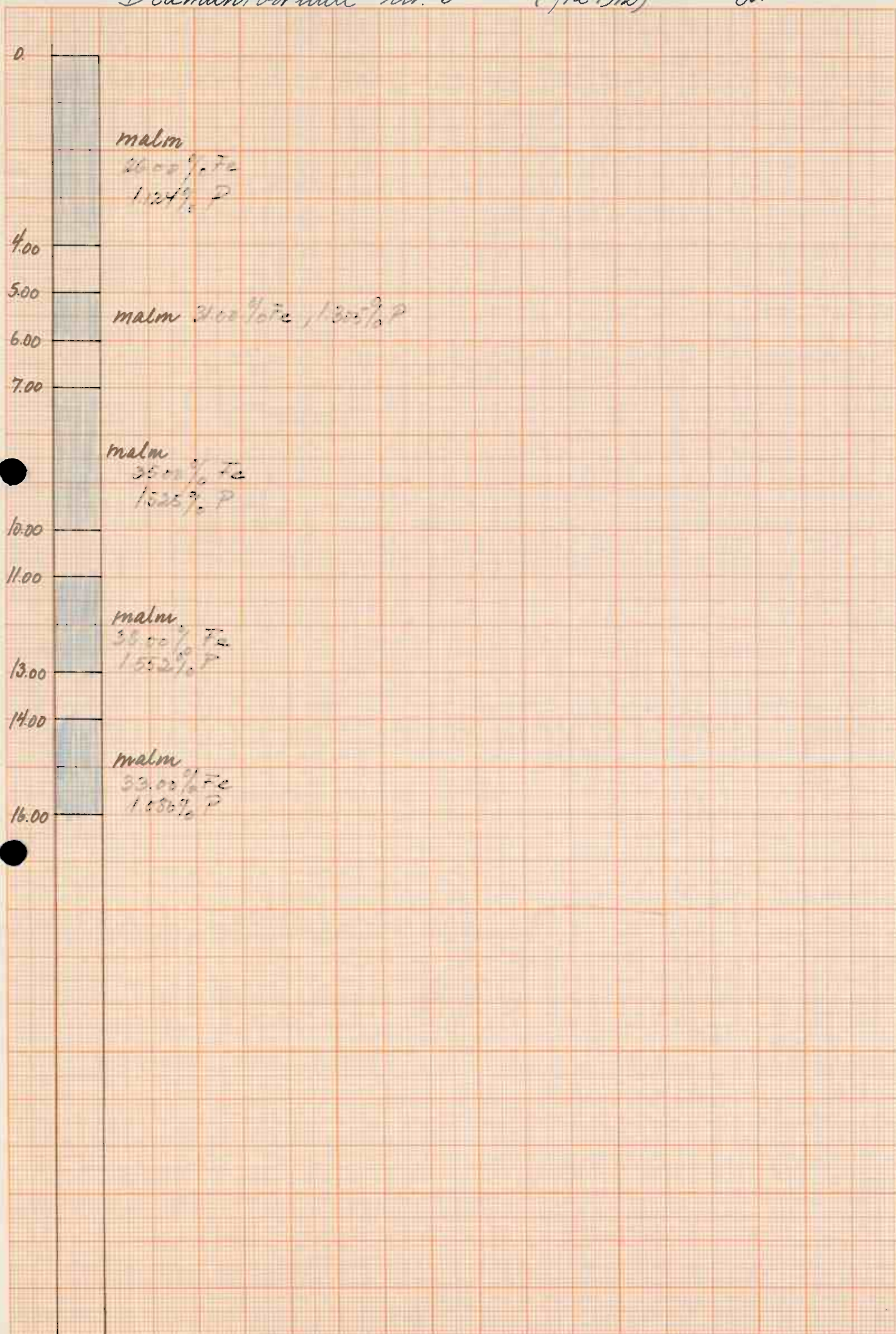
1.555

68.00

70.00

malin

1.555



17.15

46.80

malm

34.96% Fe

1.427% P

27.80

30.70

malm

34.66% Fe

1.413% P

39.00

malm

23.16% Fe

0.905% P

4

1.4. 1912-1913

Diamantförskull nr. 5

(fr 1912) Borkull A 5

28.00

malin

28.70
28.70
28.70

28.70

97.50

malin

28.70
28.70
28.70

78.00

malin

28.70
28.70
28.70

80.00

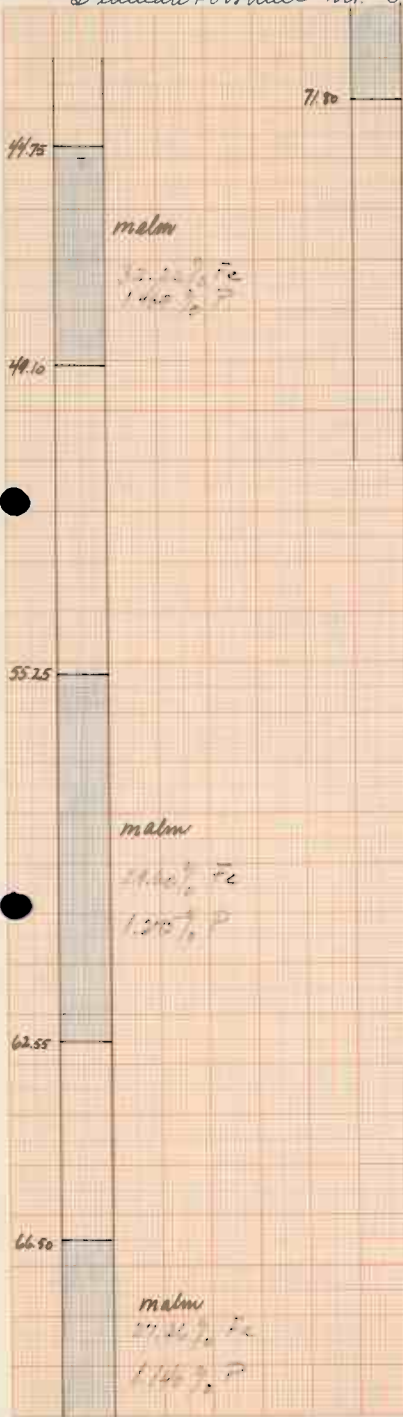
108.00

5

10.1.1912

Diawan Borhull nr. 6

(fra 1912) Borhull A 6



106.00

malm

31.00% Fe
1.320% P

111.80

161.60

163.25

163.75

malm

29.75% Fe
1.506% P

143.45

malm

29.57% Fe
1.303% P

149.60

150.85

malm

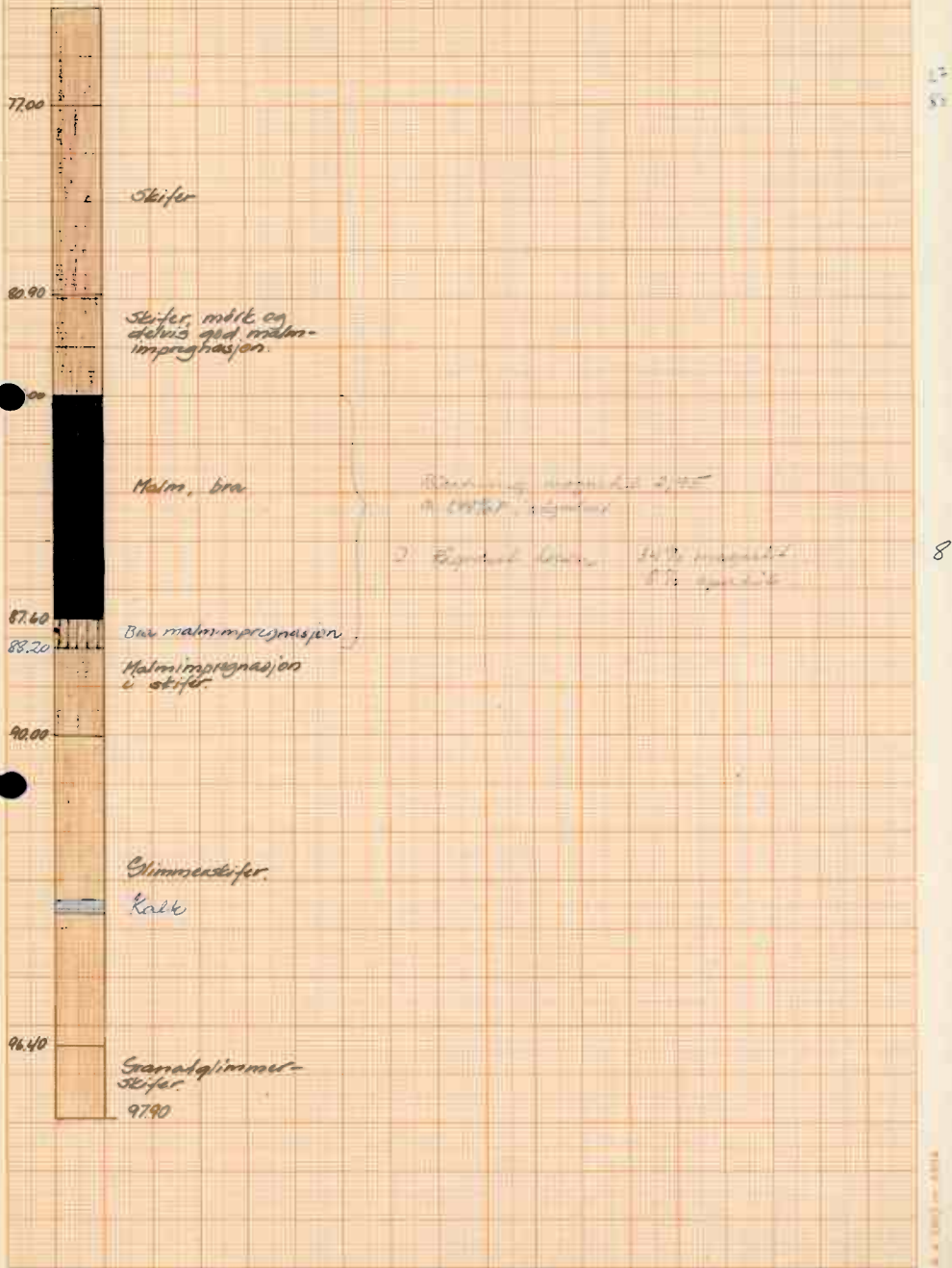
30.00% Fe
1.358% P

153.00

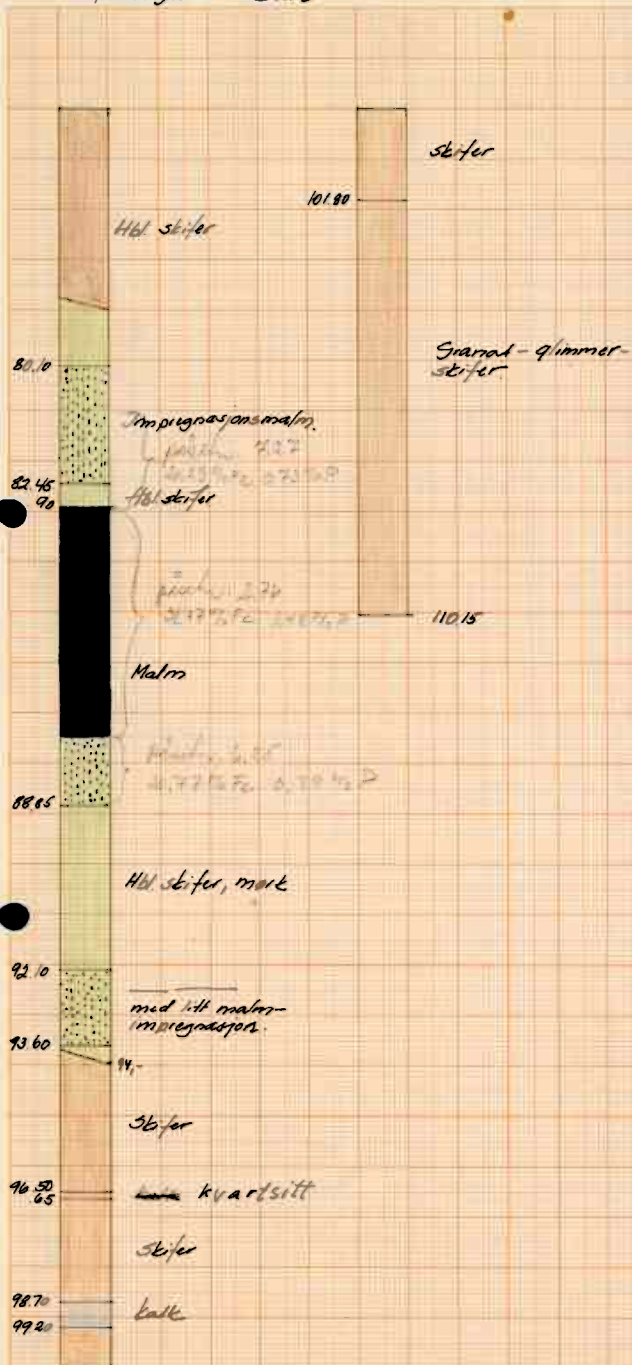
malm

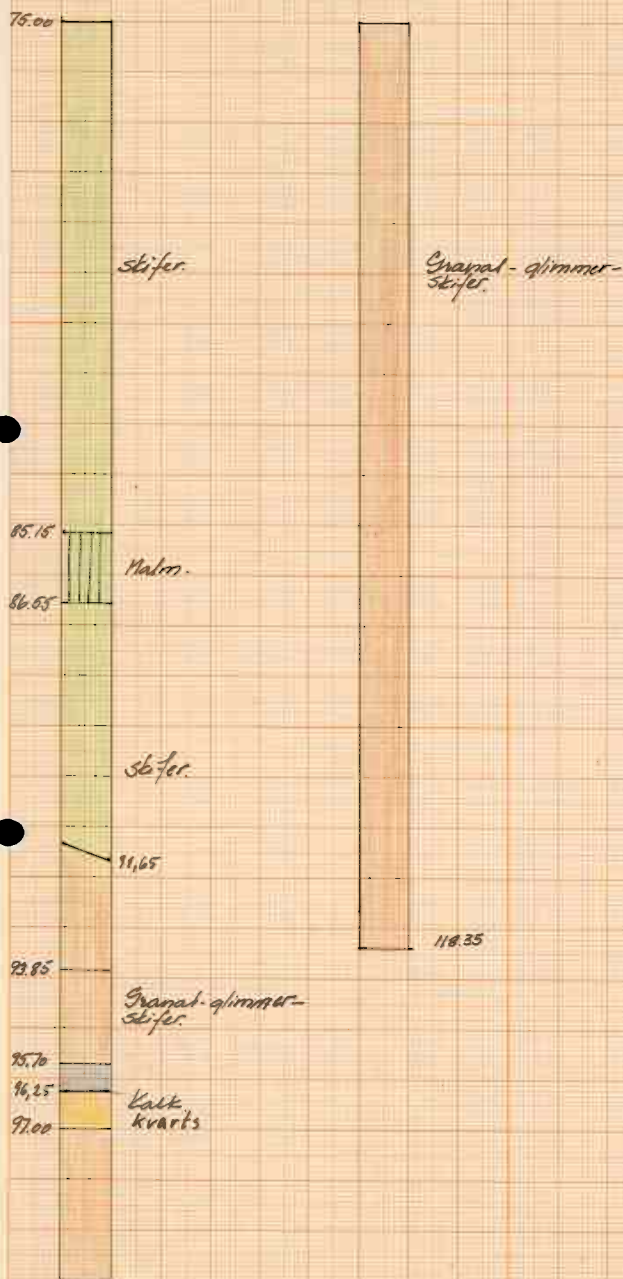
22.16% Fe
ingen analys p P

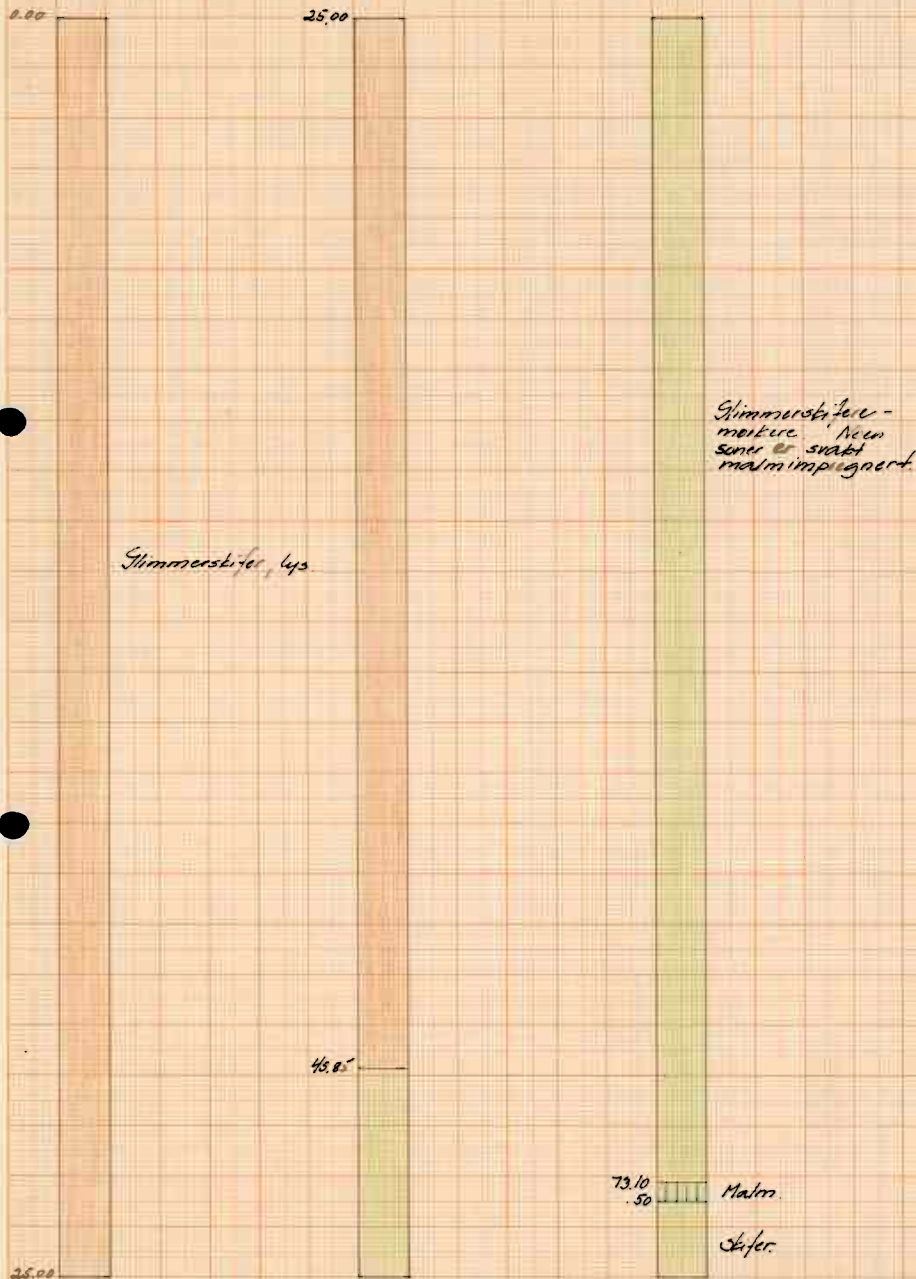


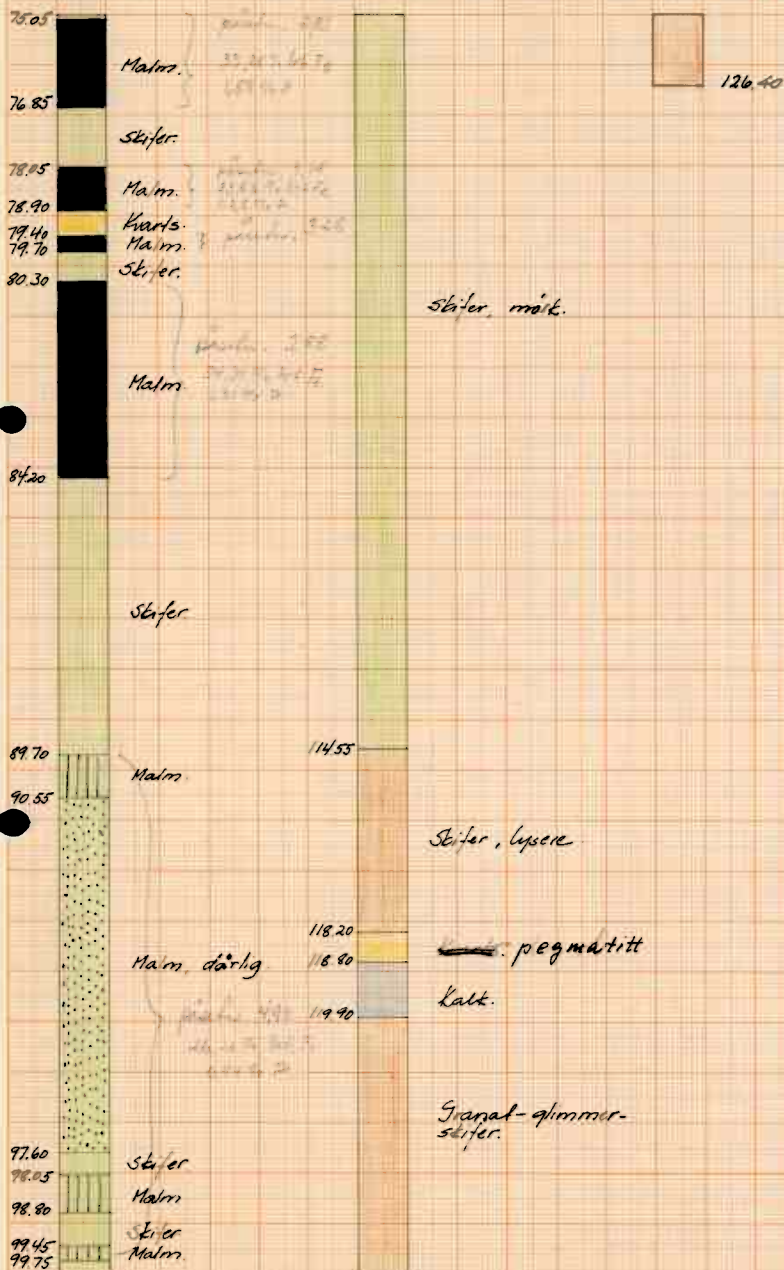












35.00

50.00

Glimmerstifer

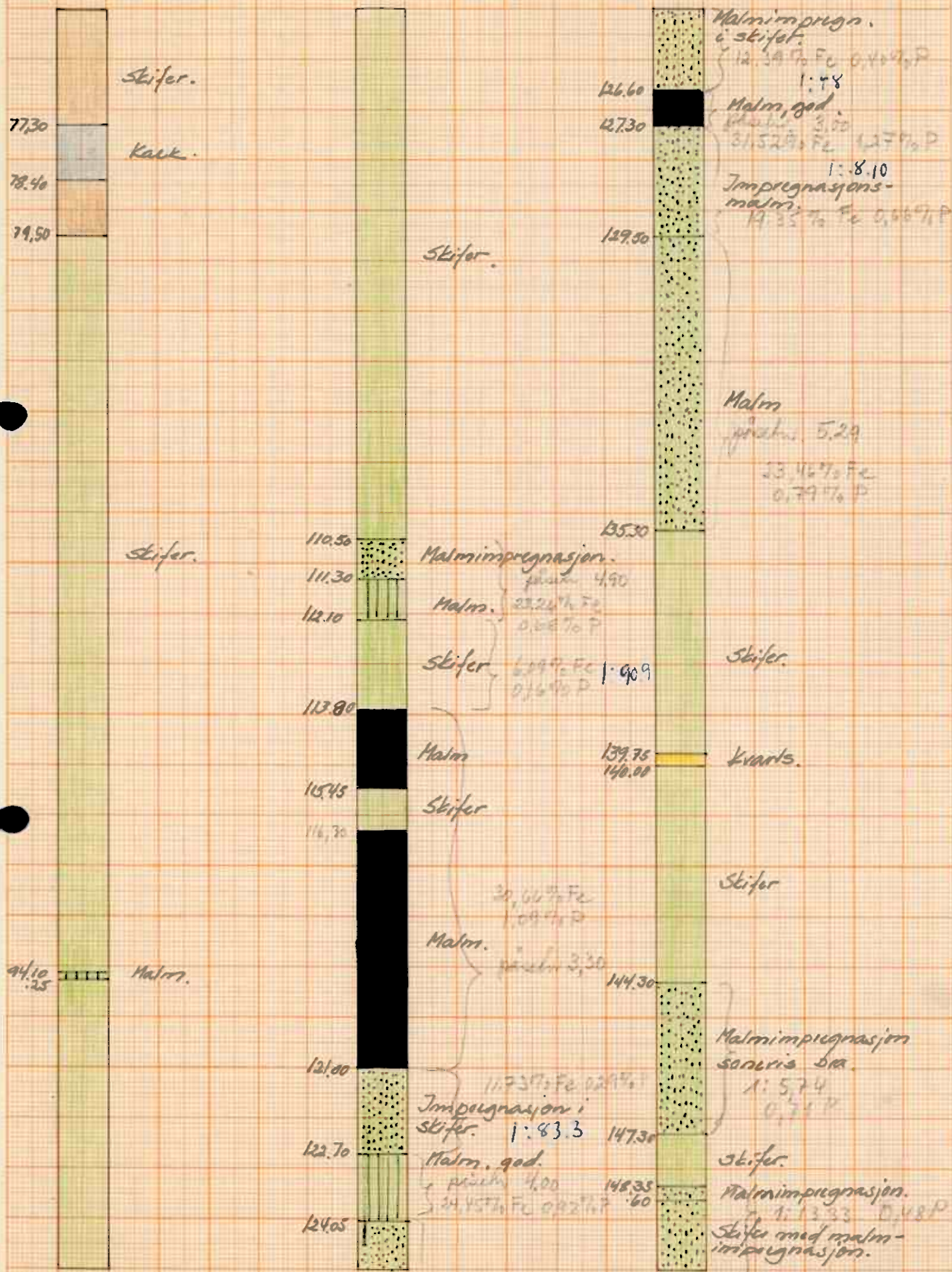
Glimmerstifer

57.30

60.35

Kalk

12



150.0

dys gimmerstifer.

155.05

kalk.

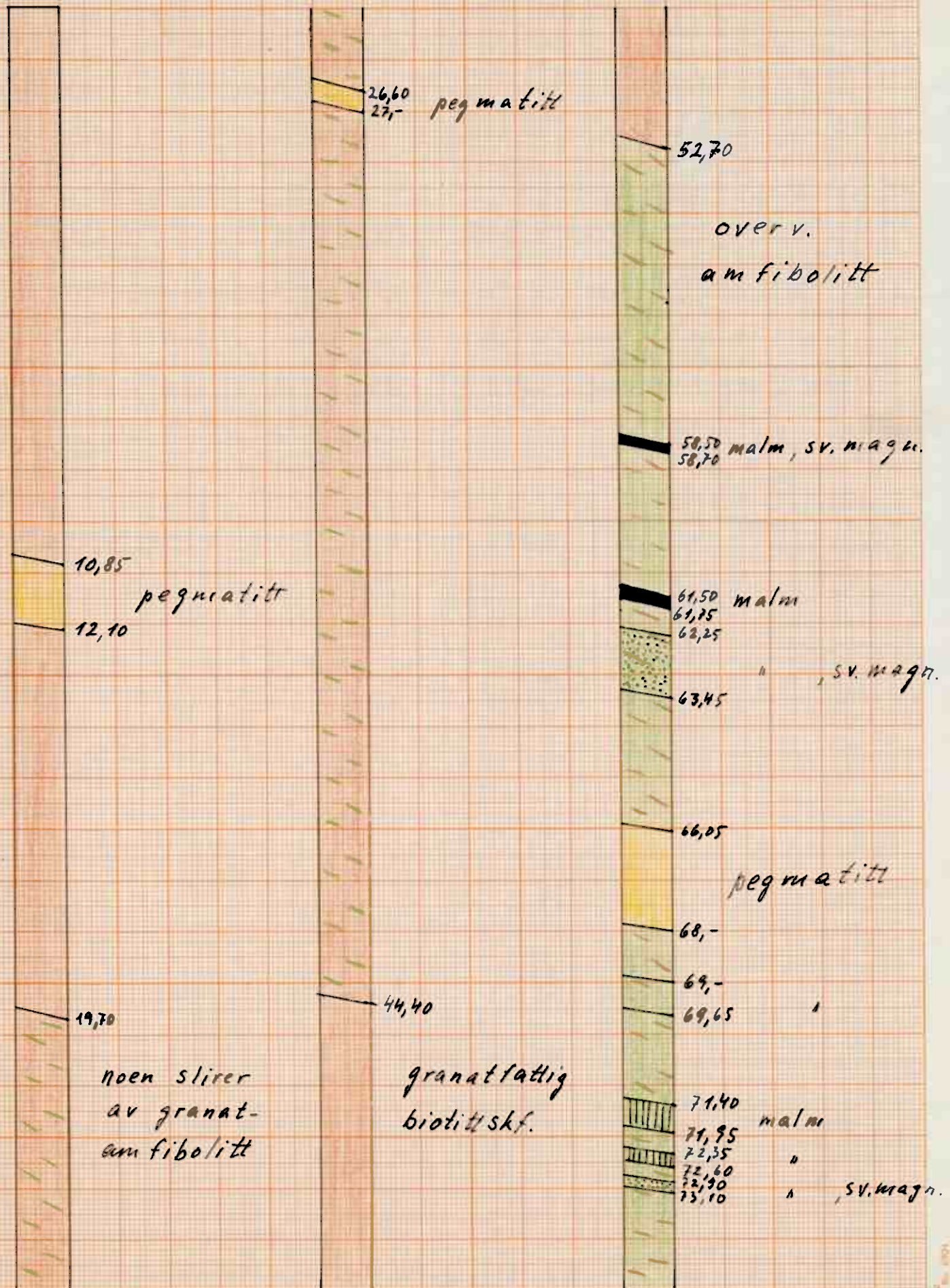
156.70

Gimmerstifer.

159.30

Snaradgimmerstifer.

168.16



76,60 pegmatitt
70,-

hbl.-för.
granatfett.
biotitiskt.

110,30

88,-

96,32

hbl.för.
biotitiskt,
amfibelit-
slirer



0,-
2,-
pegmatite
4,5

17,4
pegmatit
19,9

25,-

75,-

80,-

Kvartsittisk

102,-

lagvis
hornblend-
anrikning

128,-

105,50

mye biotitt
lite granat

88,30

pegmatitt

89,50

kvartsittisk

150,-

150,-

153,65 biotitt-anfibolitt
153,79
154,43 granat
154,67

178,5

enkelte amfi-
bolitt bånd i
granatfattig
glimmerskf.

biotittrik,
granatfatt.
glimmerskf.
m. enkelte
amfibolittbånd

168,10 marmor
169,14

198,2

219,95

biotittrik

225,-

225,-

232,48

biotit skf.
m. amfibolit-
bånd

228,50

overvejende
amfibolit

230,88

hornblenderik
biotit skf.

300,90

29.11.60 *gr.*

0,-

50,50

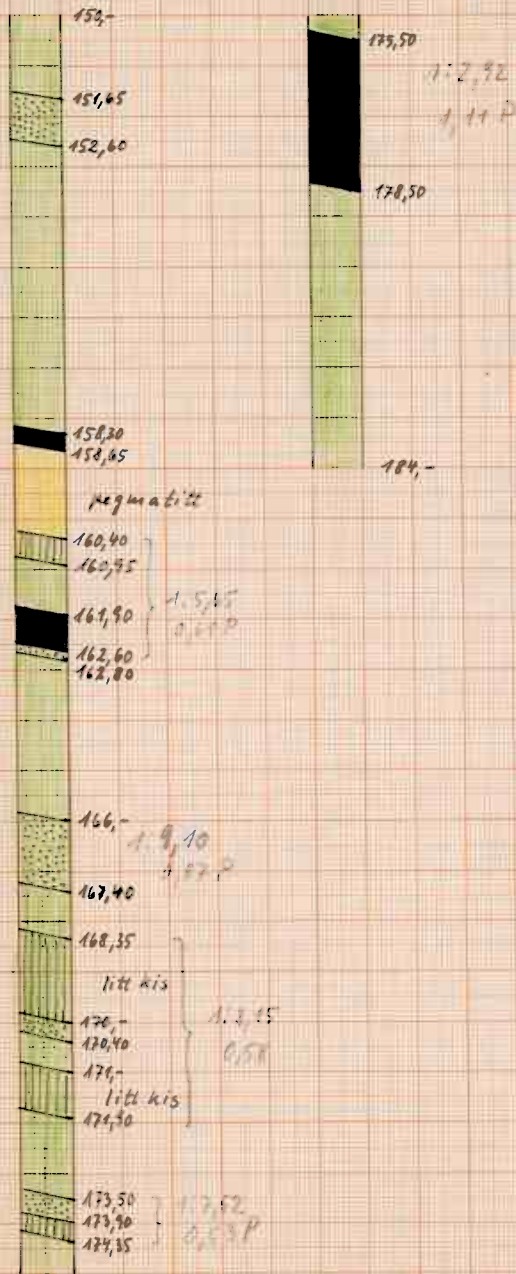
43,30

amfibolittiske
lag

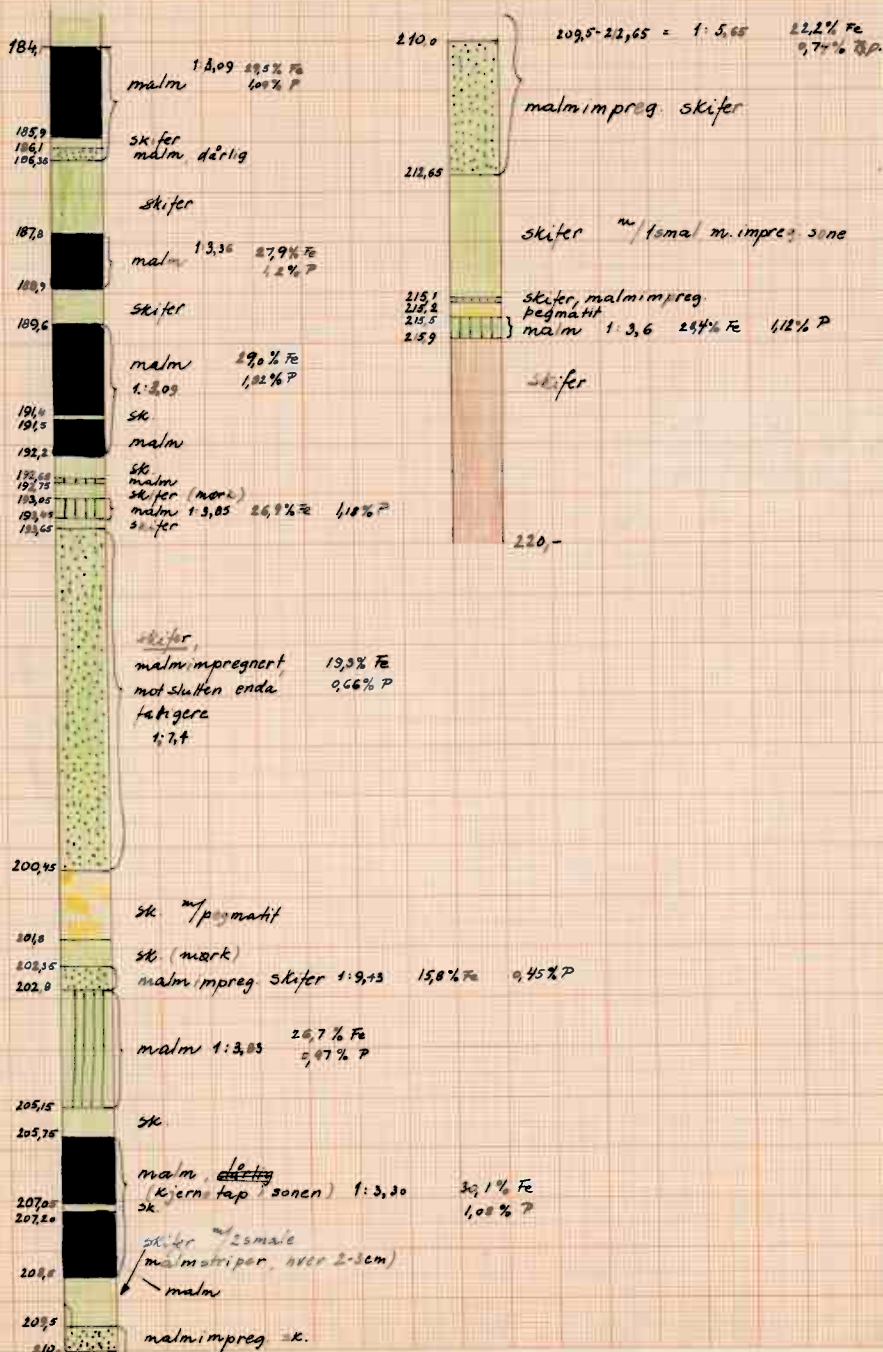
75,-

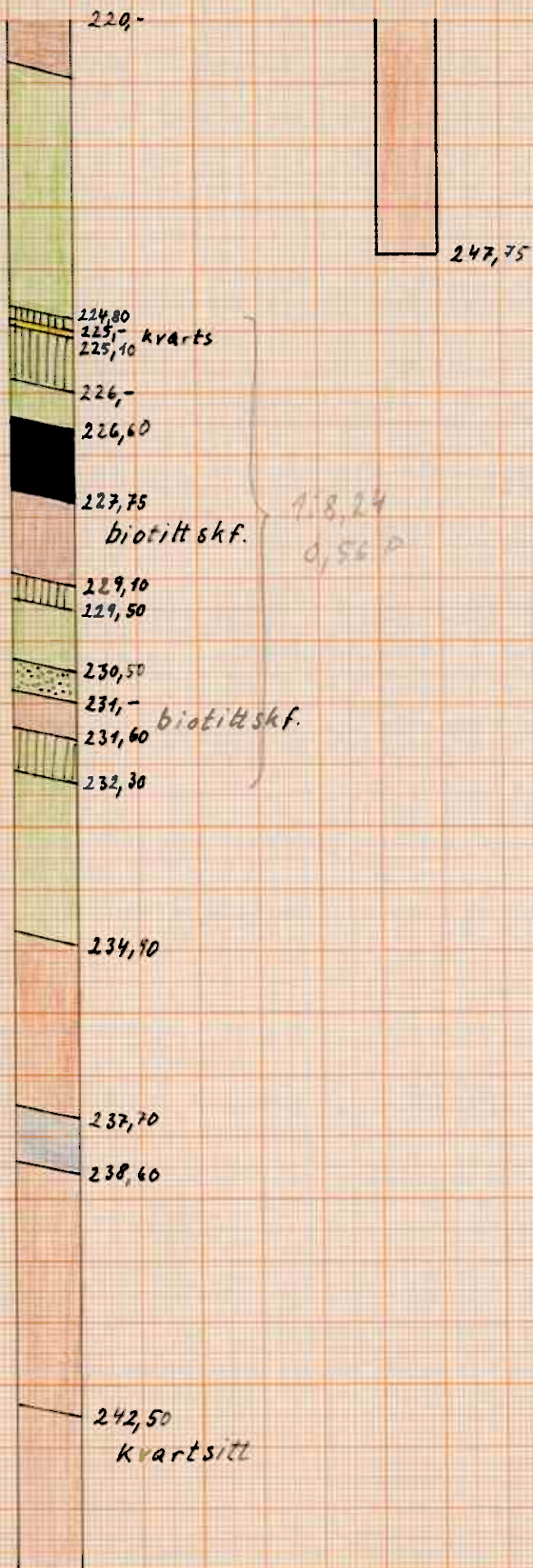
75,-





Andrupa - bh. 15

obs. 4/12-59
/d




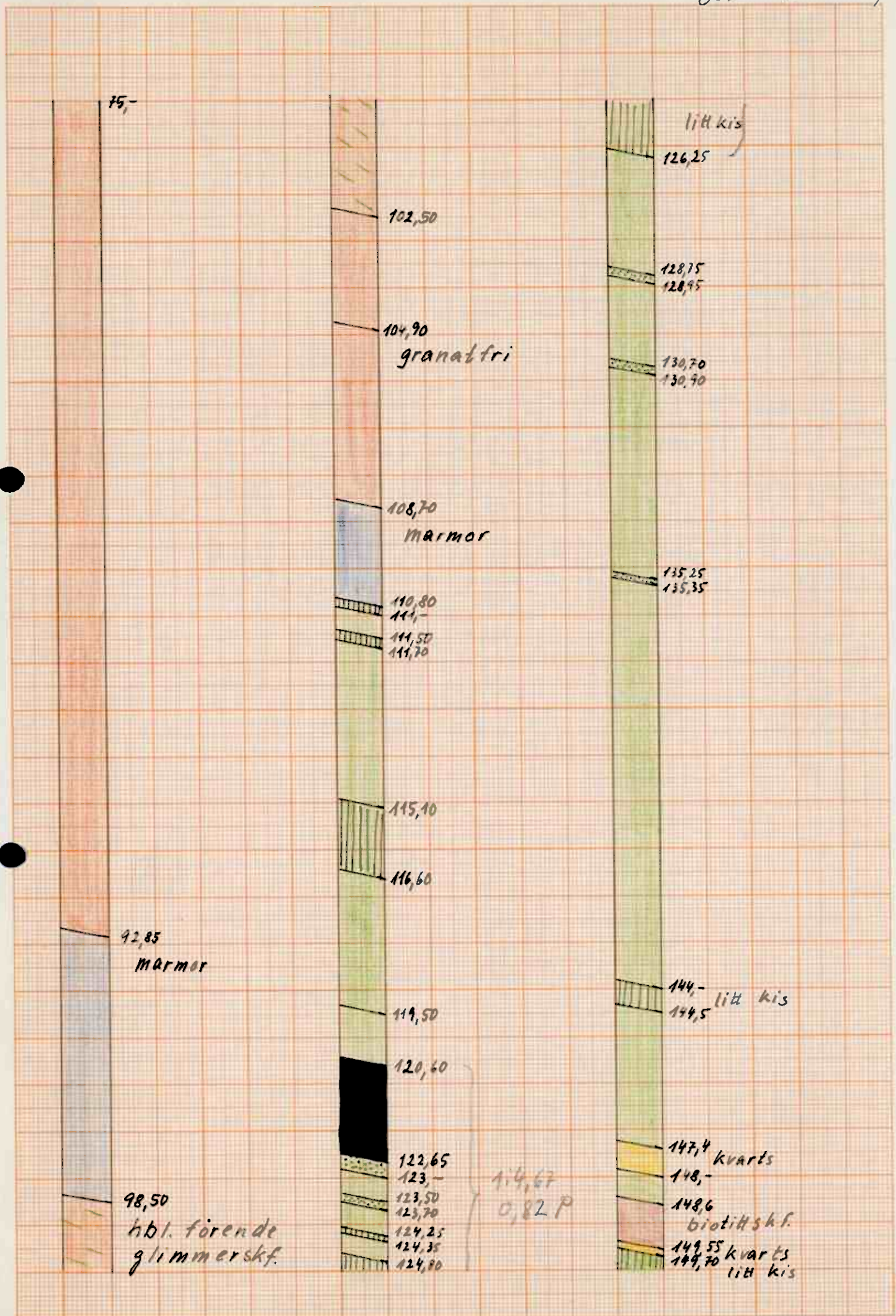
0,-

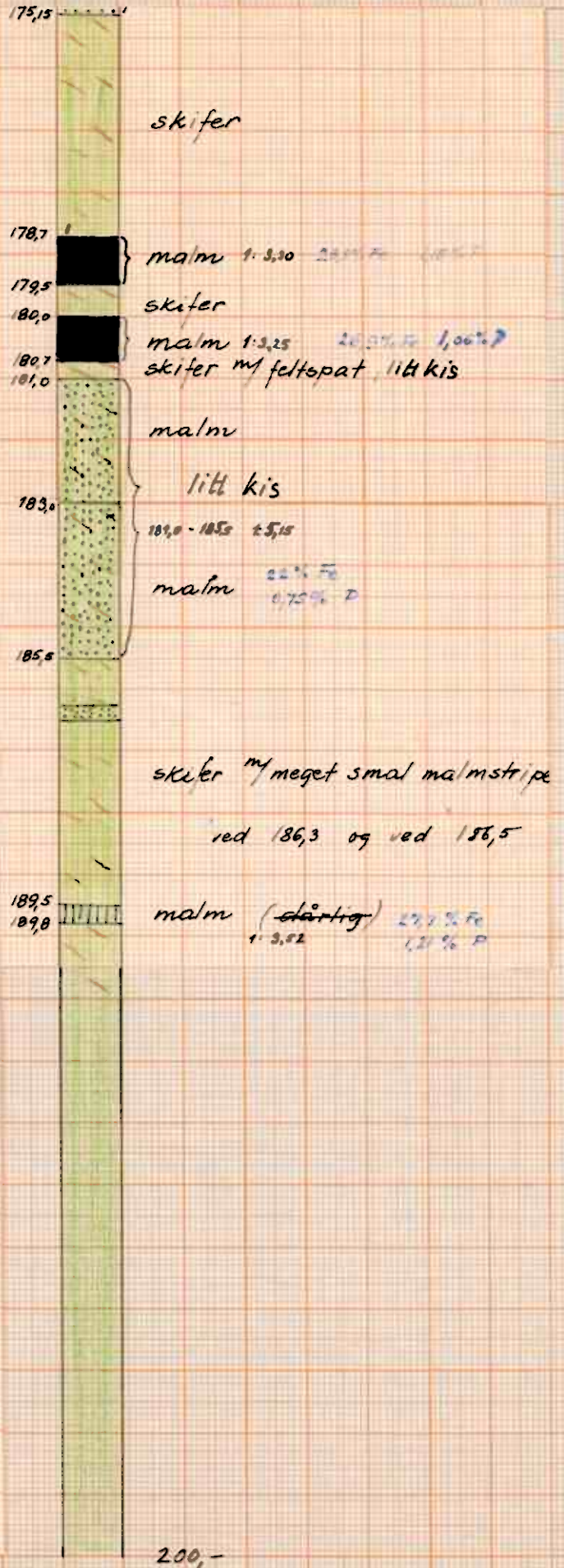
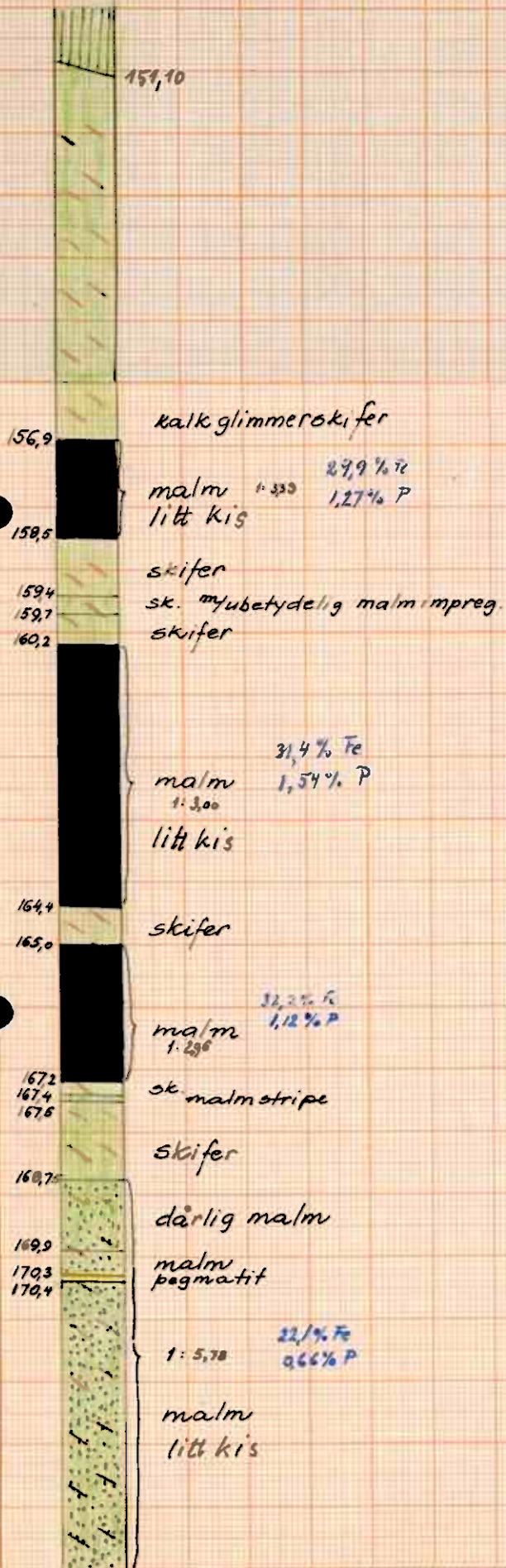
35,-

35,-

pegmatit

75,-





200,5
200,25
200,60
201,5
201,90

202,20

17,82

0,56 P

203,20 biotitiskf.
203,40

204,05

biotitiskf.
impr. bånd

207,20

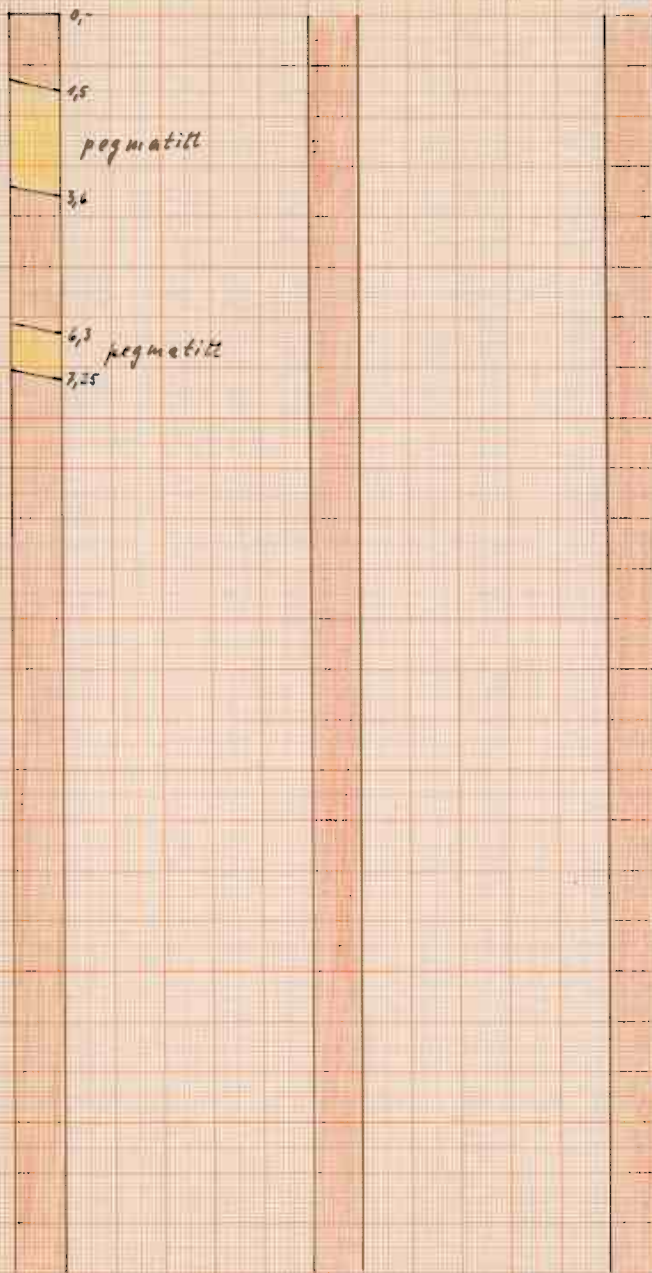
207,95

212,15

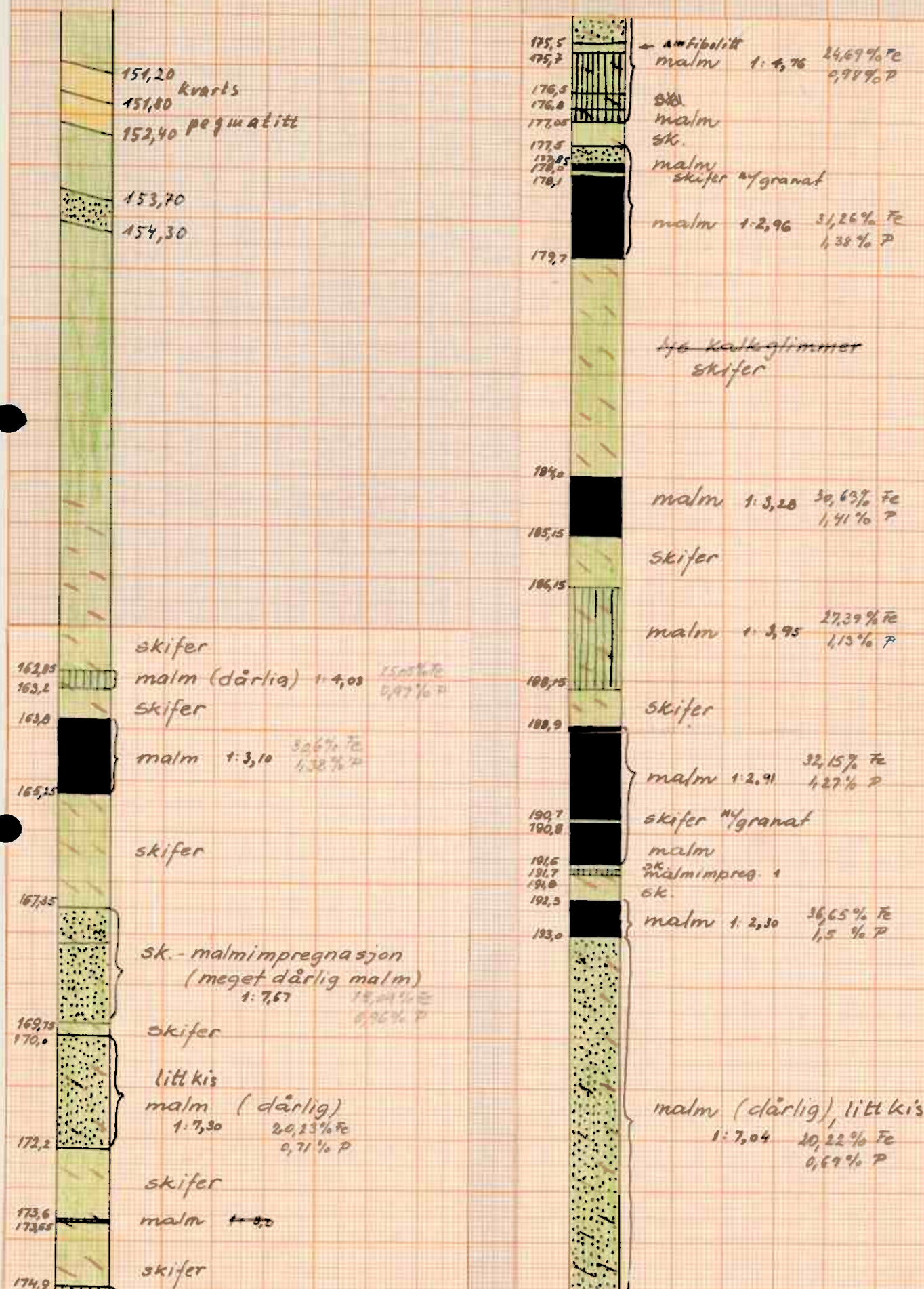
Marmor

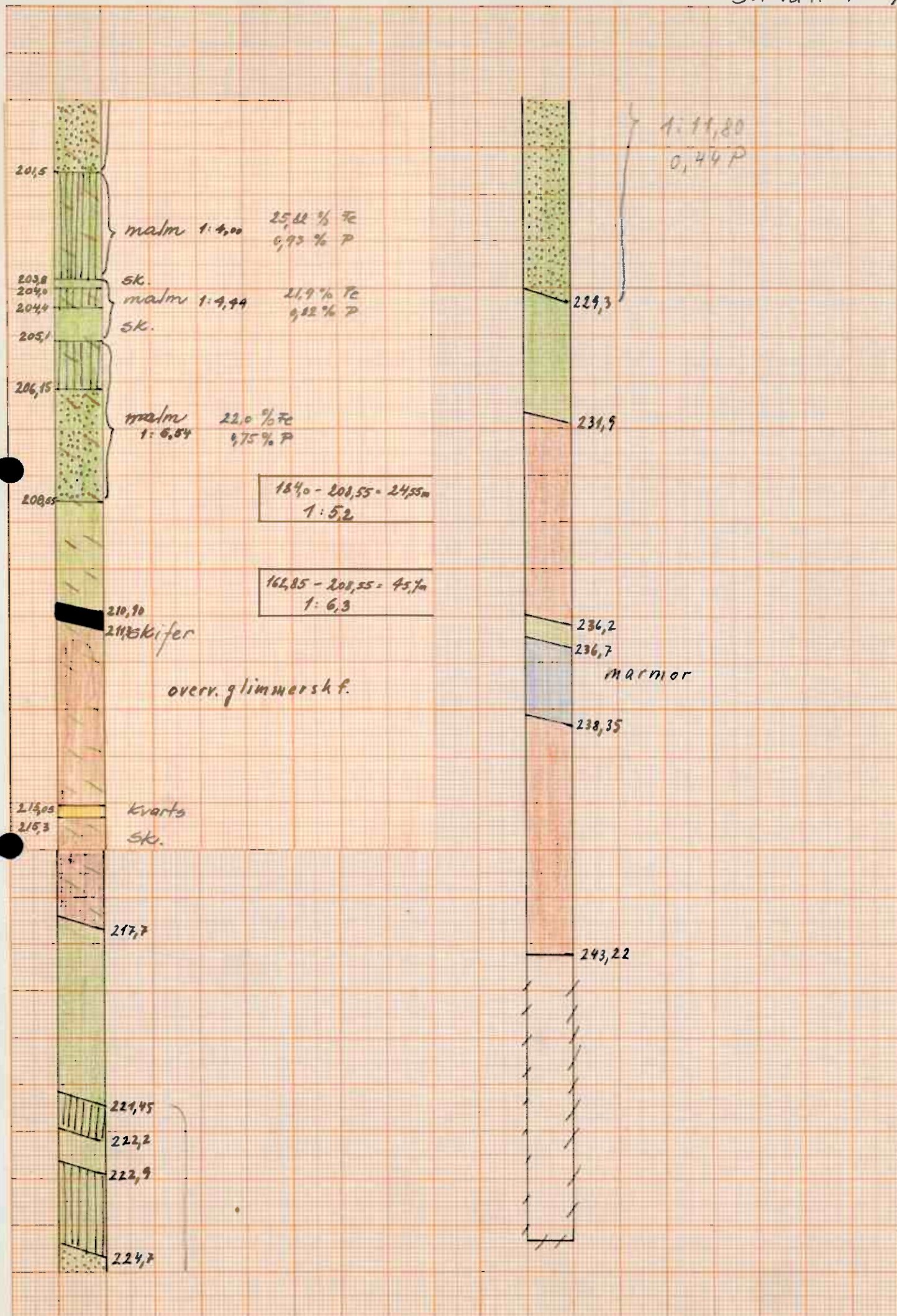
213,70

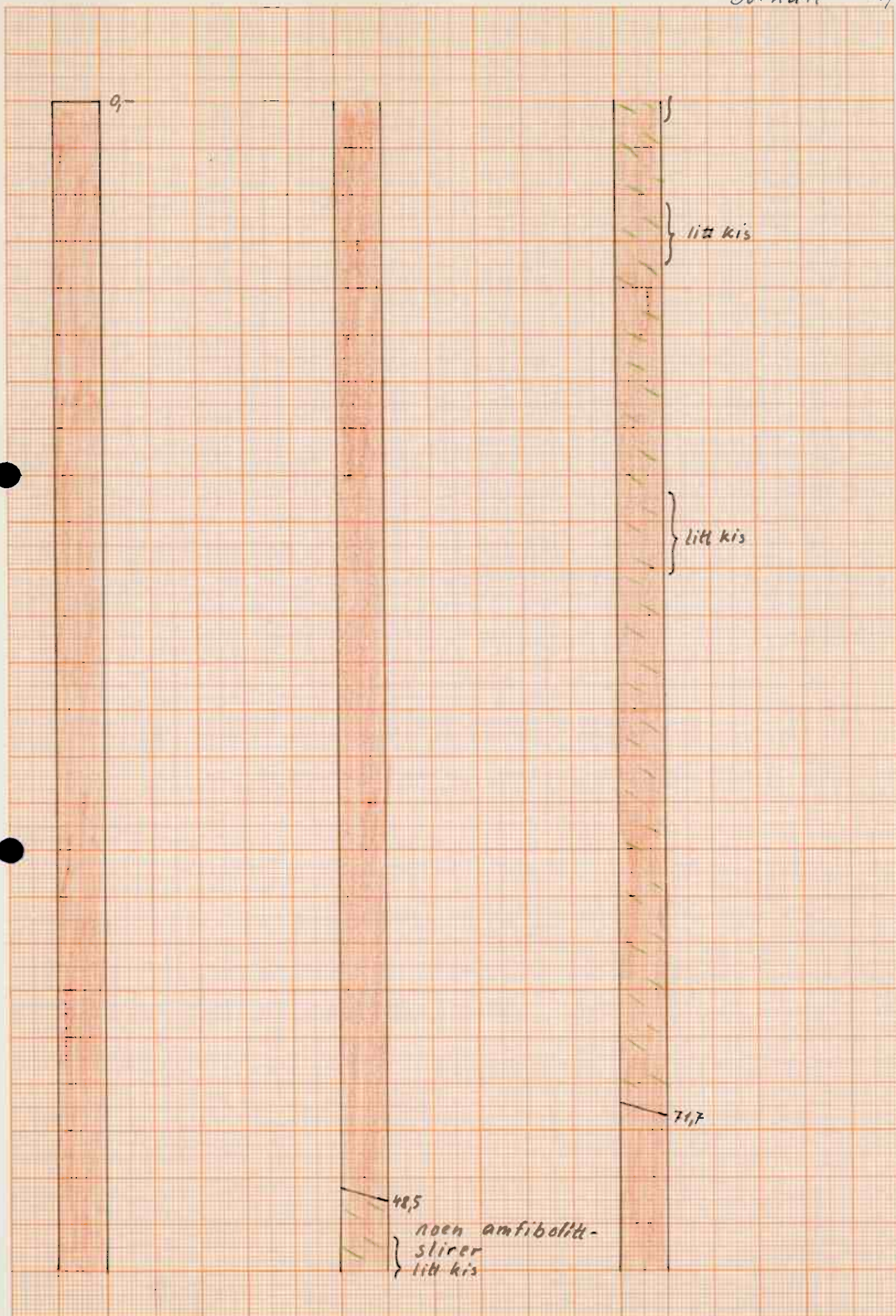
250,50

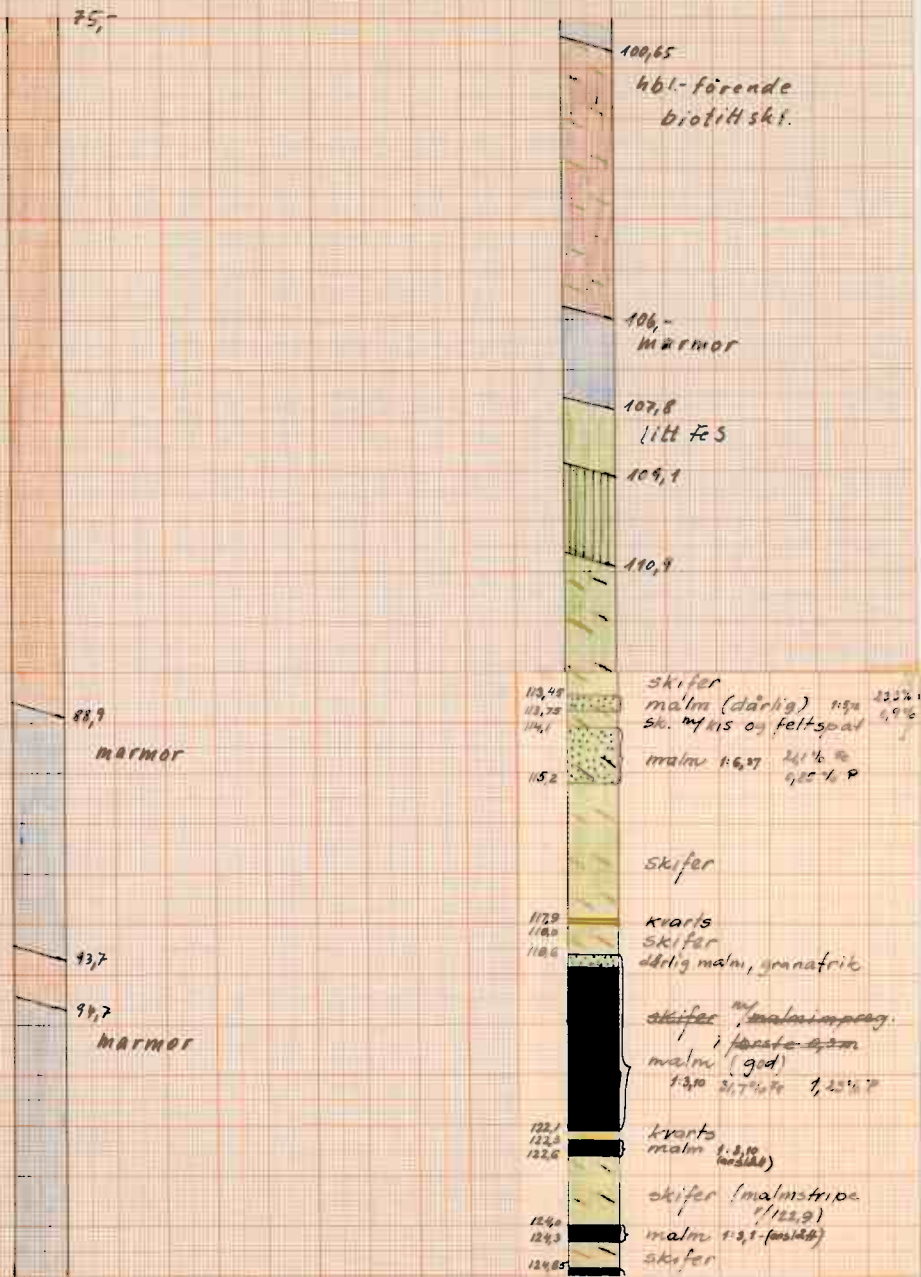


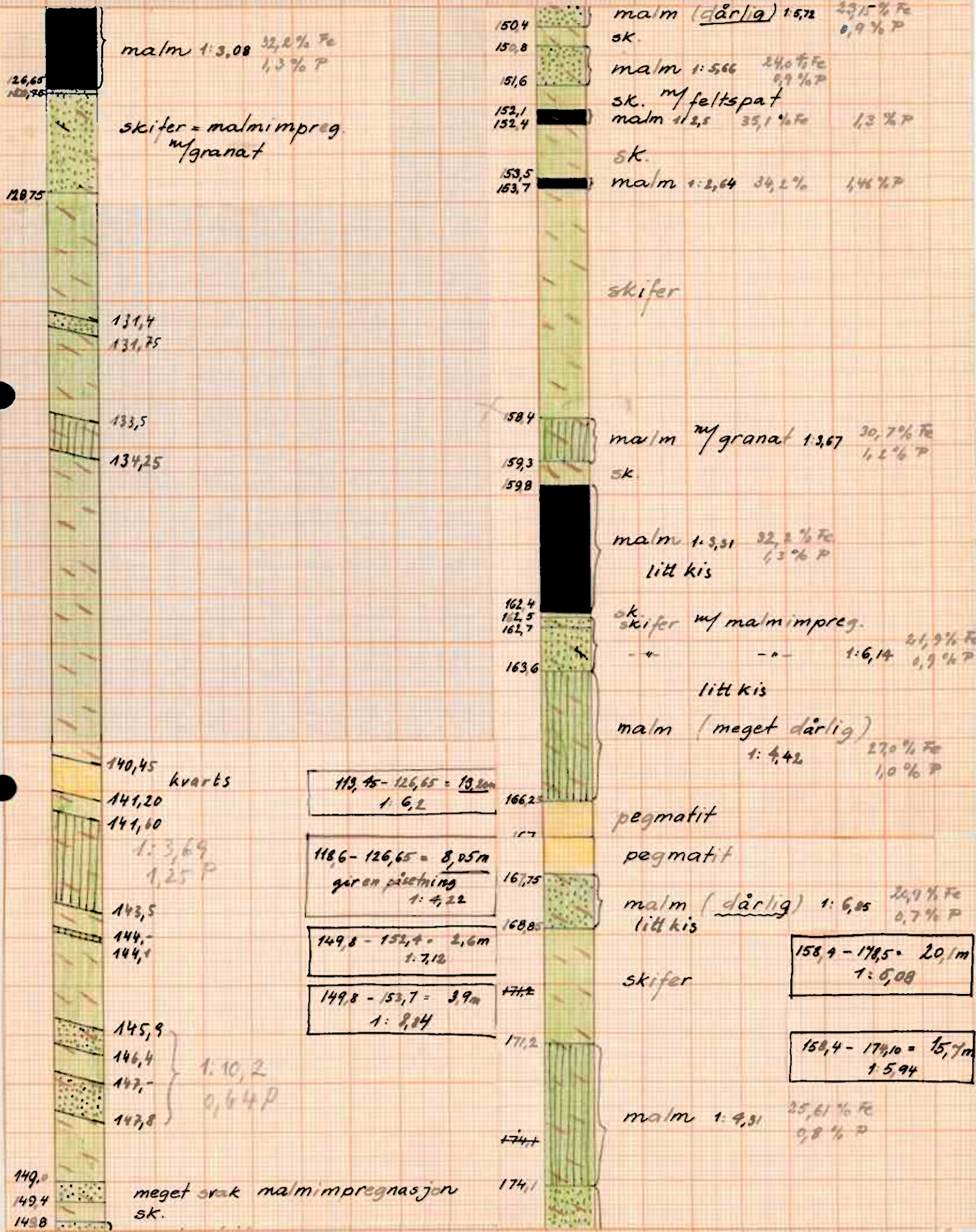


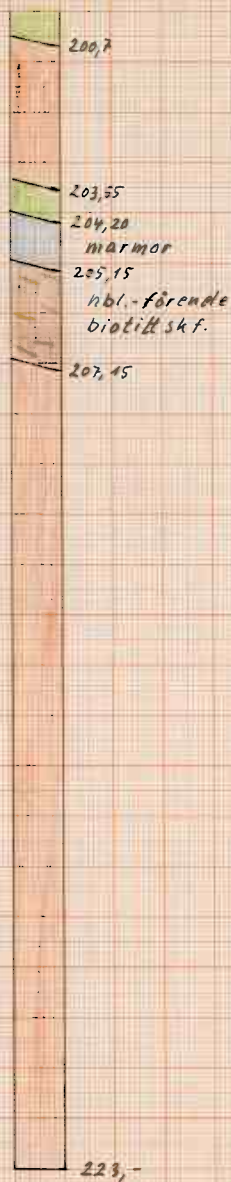
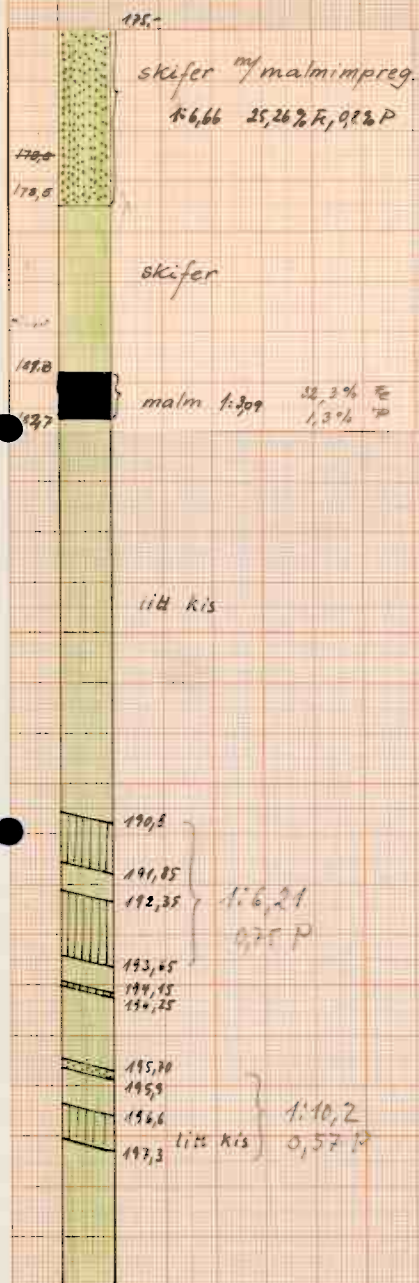












0,-

75,-

75,-

108,4
108,7
marmor

113,9

120,5
120,65
120,8
lith kis
marmor

132,7

lith kis

133,35
133,50
lith kis

134,6
134,9

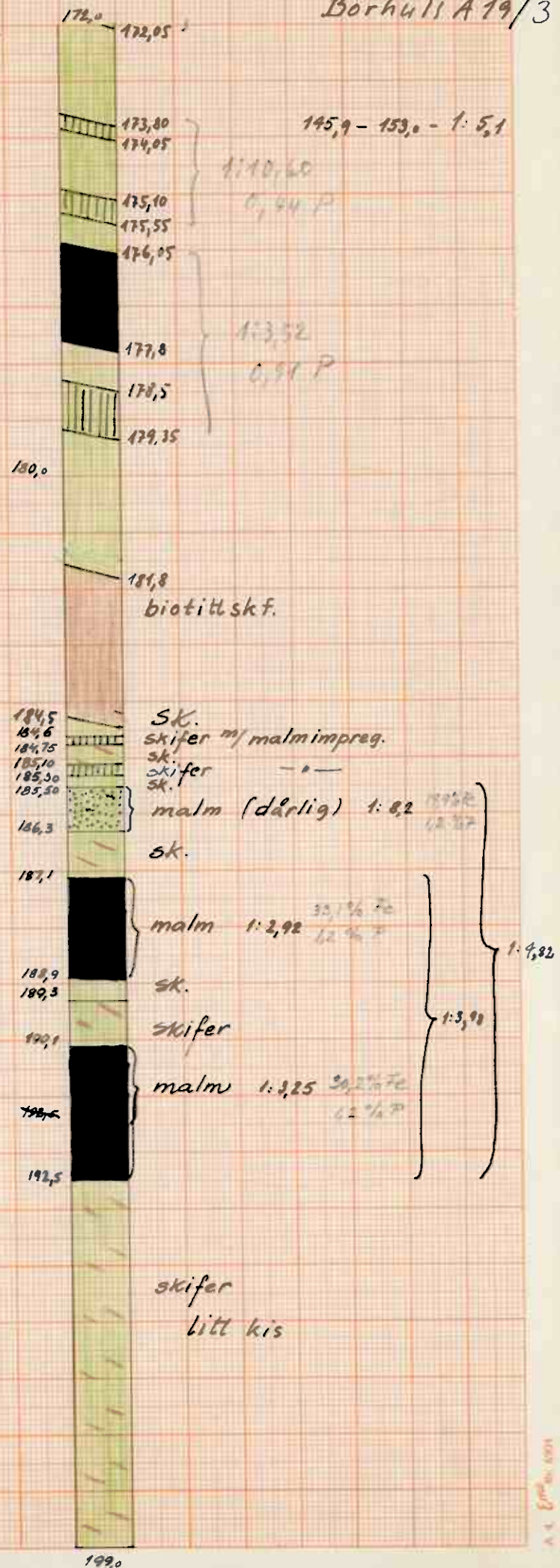
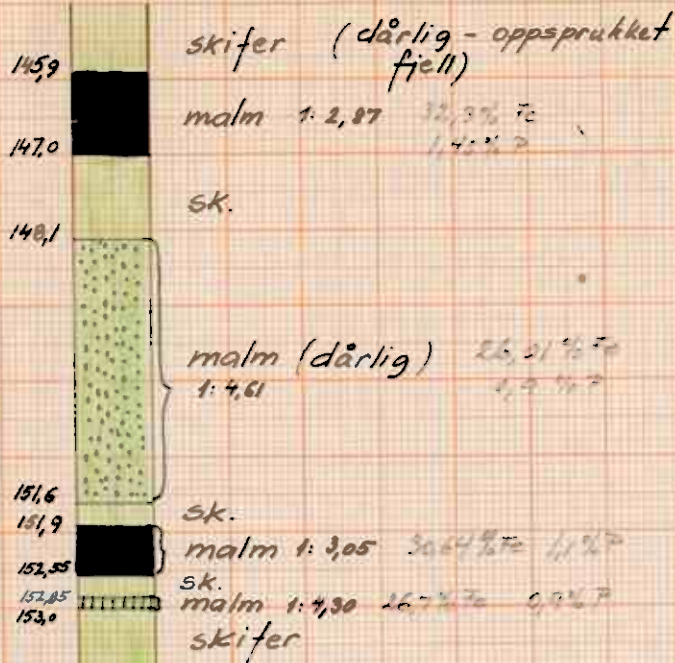
137,25

138,4

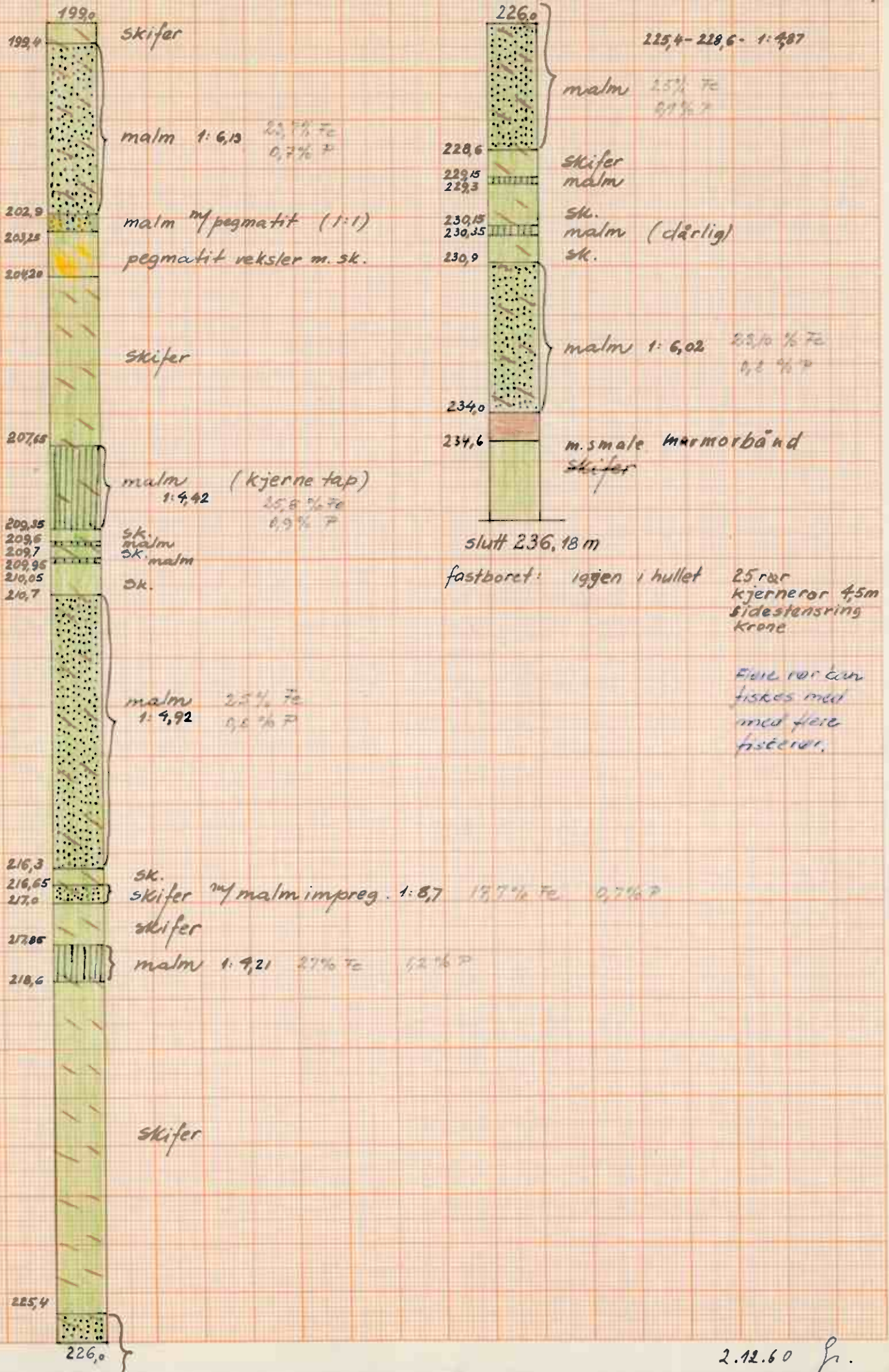
142,35
142,55

144,45

Borhull A 19/3



~~Kjerner kasser~~
~~igjen på Andørja~~



0,-

55,25

56,40

pegmatitt

54,15

55,-

kvarts

56,45

60,9

kvarts + pegmatitt

62,15

49,30

kvarts

75,-

75,-

128,9
Marmor

130,85

138,-
Marmor

140,85

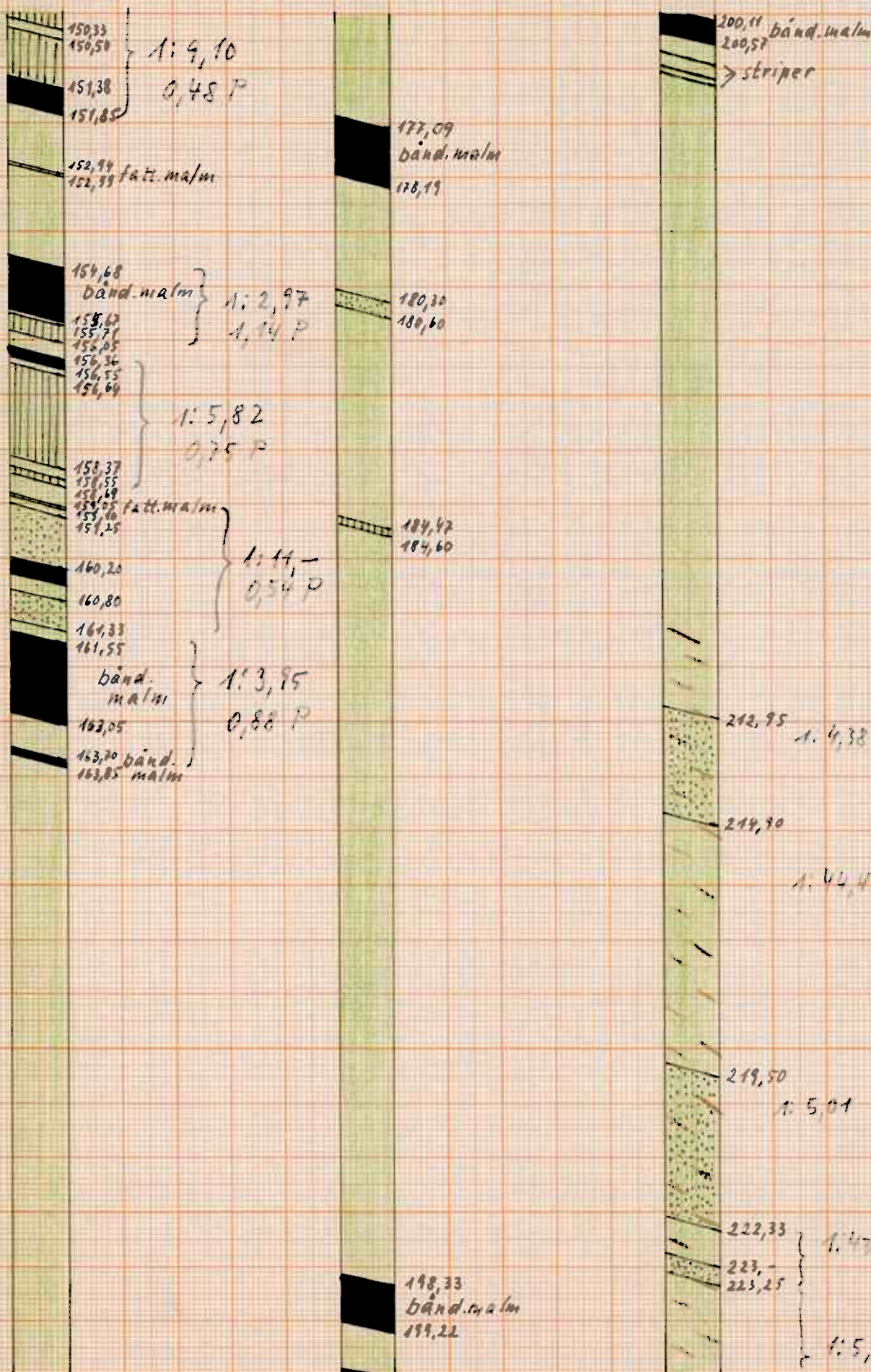
118,90
Marmor

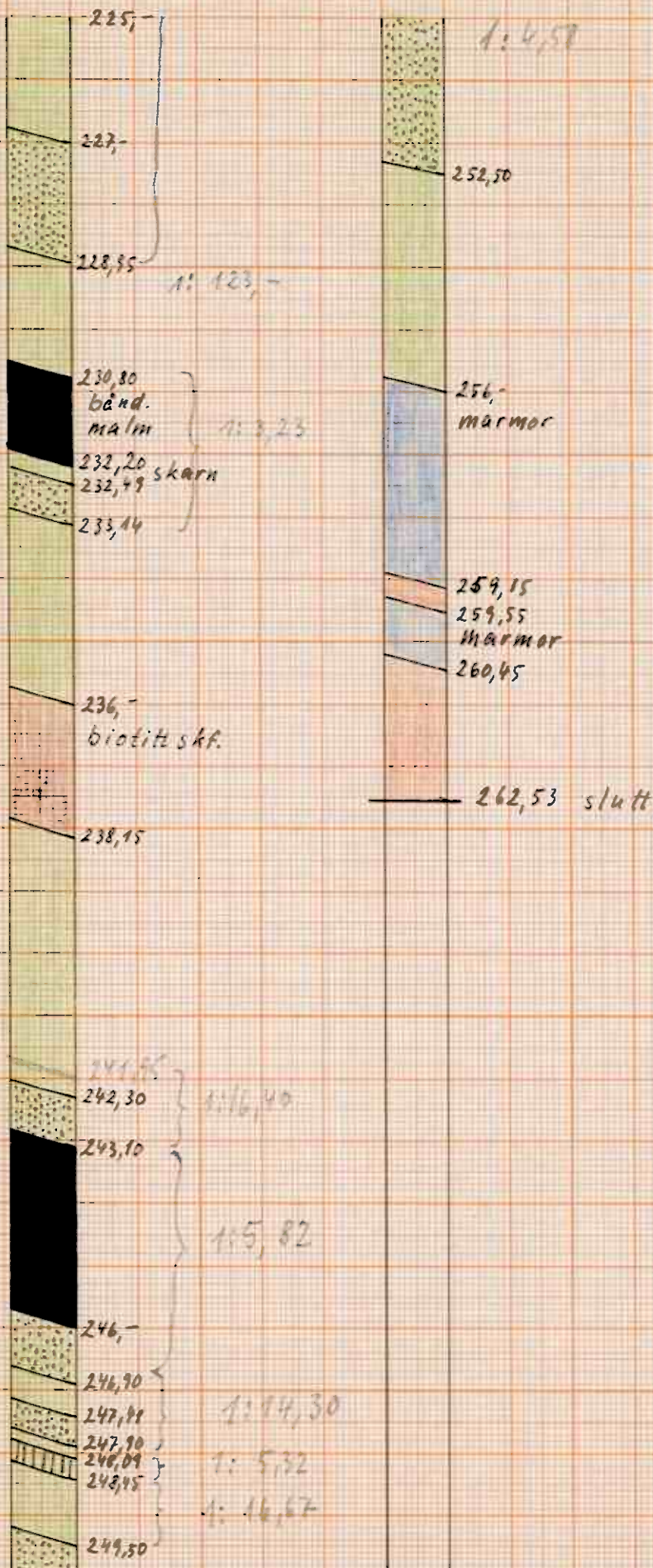
124,-

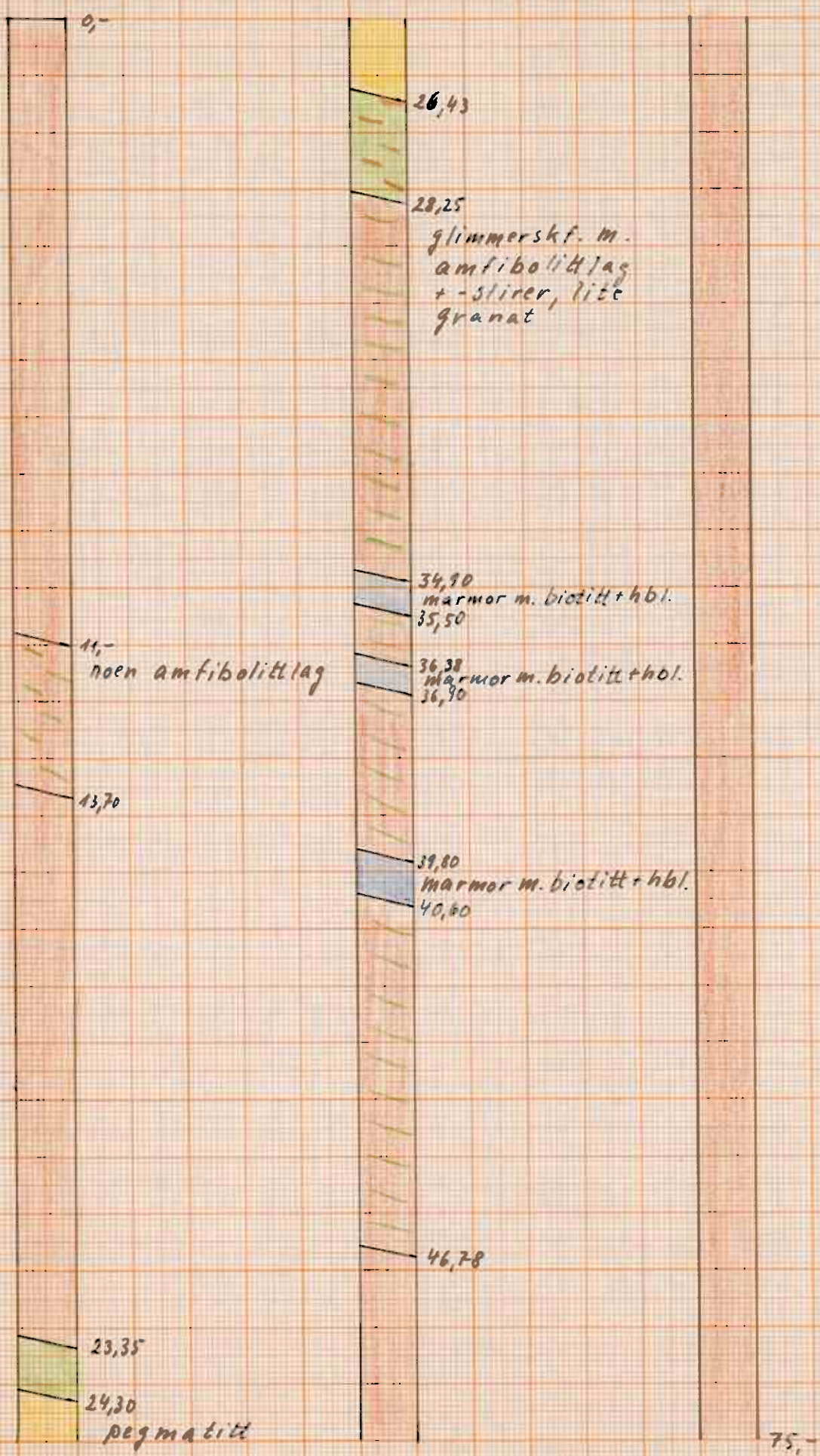
140,26
144,30
144,44
144,57

147,93
148,15
148,34
148,50
148,65
149,09
149,58
149,95

1; 16,60
0,58 P







25-

114,60
regmatitt

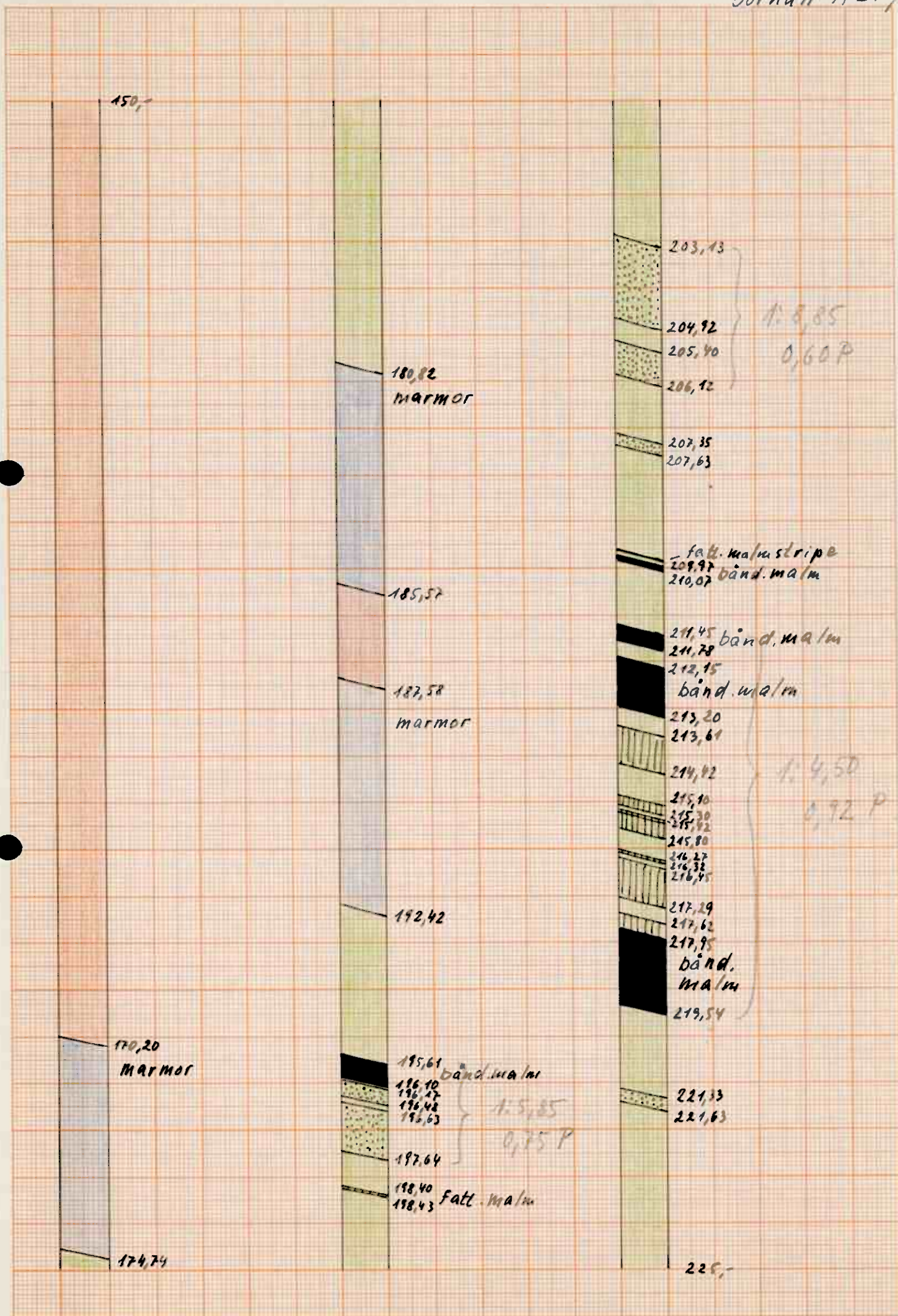
114-

138,17
138,55 marmor m. all.

146,20

147- marmor
147,20

149,30



225,°

233,92
234,07

238,72
238,82
238,92
bånd. malm 1:4,-
238,94
240,22 bånd. malm 1:12 P
240,55

244,94
245,40

260,15
260,71
261,40
261,46

275,68
275,70

276,90
277,06
277,15

bånd. malm 1:4,55
1:12 P
278,90
279,08 bånd. malm
279,20

280,05
280,25

281,08 bånd. malm
281,25

281,94 bånd. malm
282,03
282,13

bånd. malm 1:4,12
1:04 P
283,93
284,22

bånd. malm

287,14
287,84

291,52

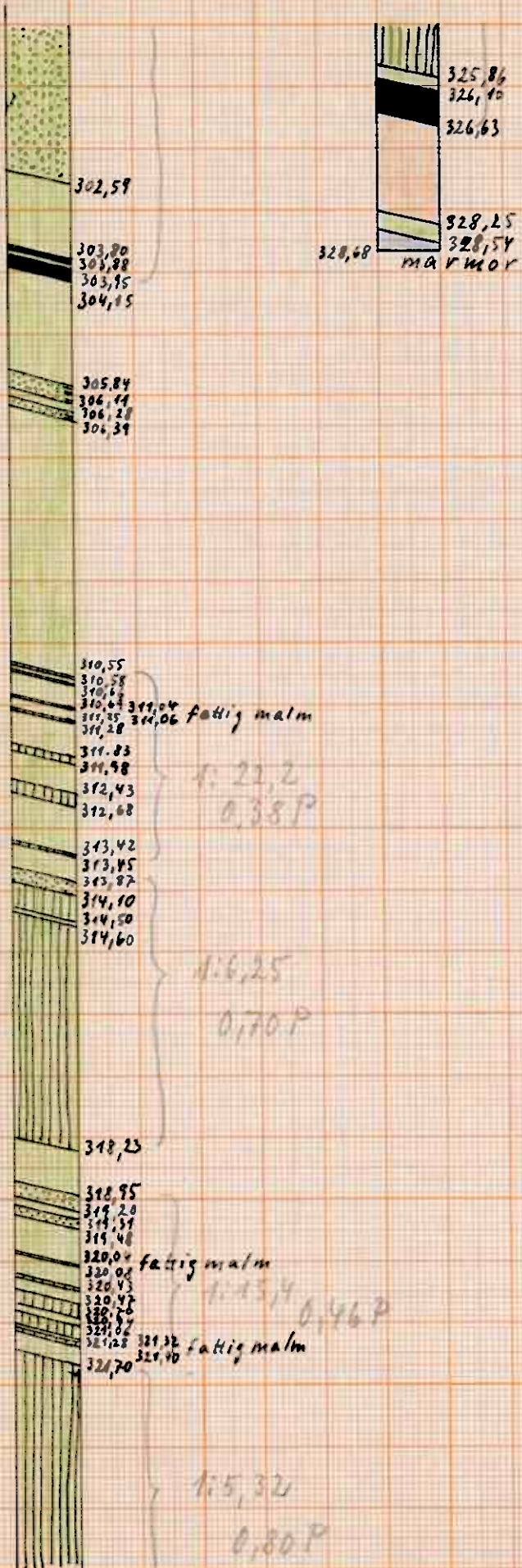
1:5,-
0,80 P

293,80

296,64

297,80
meget fattig

1:6,58
0,71 P
299,55





14,80
hbl.-för. marmor
16,-

75,-

75,-

136,02
kalk-glimmerskf.

137,-
Marmor

140,19

141,-
140,39
140,19
140,02
141,52
Marmor

143,25
hbl. för. biotittskf.

150,-

150,-
153,08
marmor

155,80

156,90
156,94
157,19
157,25

160,59
160,83
160,95
161,15
161,40
161,95
162,03

119,90
0,78 P

164,42
164,50
164,77
164,86
164,89

167,-
167,25

169,20

170,20
170,41

115,35
0,77 P

172,35
172,60
172,95
173,-
173,45

174,20
174,53
175,-

175,24
176,44
176,57
176,81
113,98
1,09 P

178,-
glimmerrik
178,75
179,05

190,99
191,05
191,39
191,43

197,95
198,45

212,12

213,20

213,90
213,97
214,04
214,20

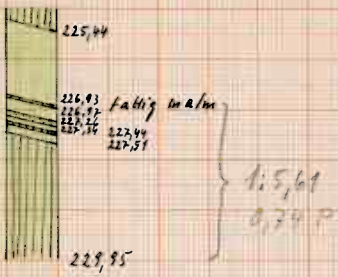
216,90

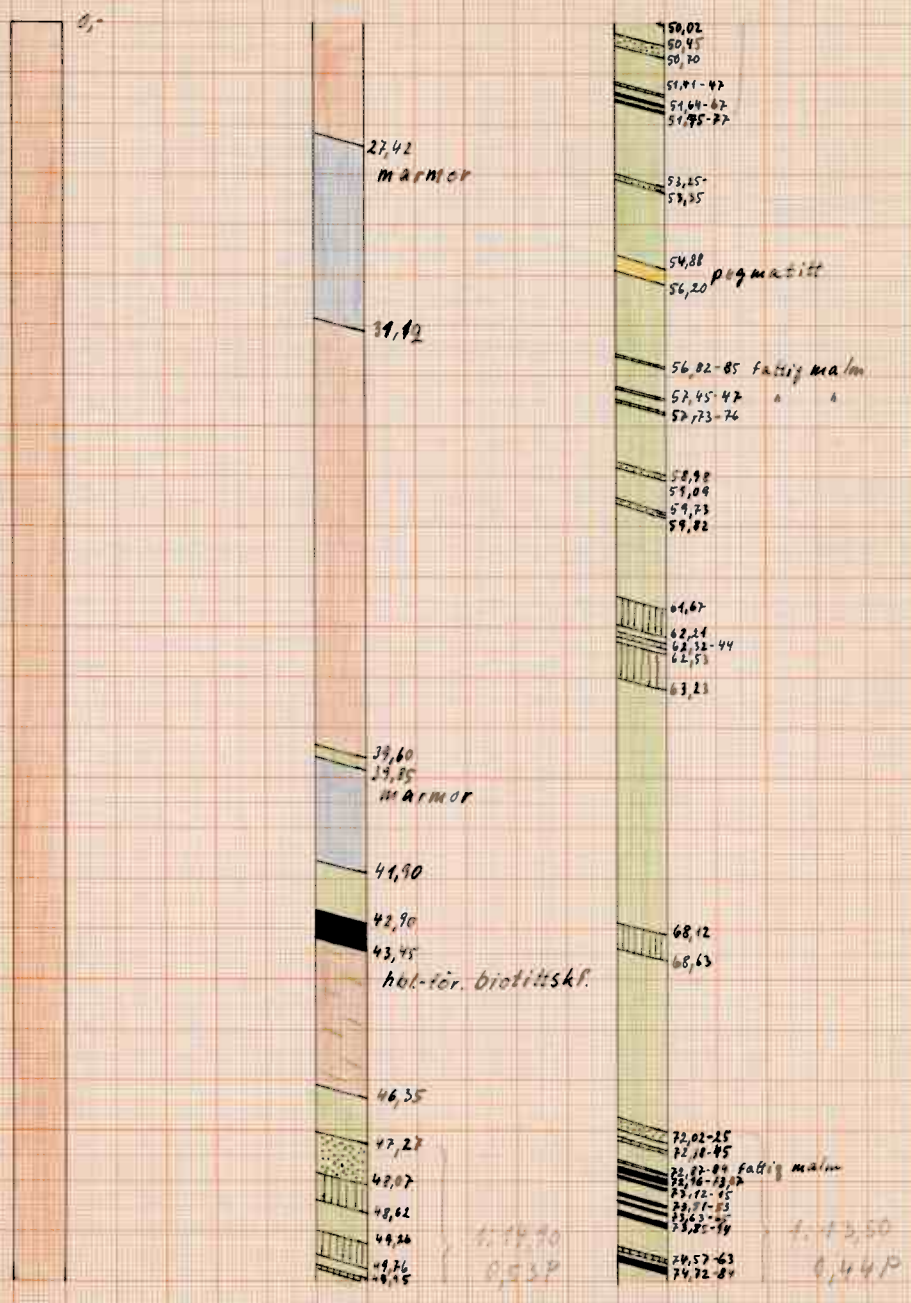
hbl. för. biotitisk f.

222,-

223,12

115,47
0,78 P





0,-

30,74

dm-bånd
av granat-
amfibolitt

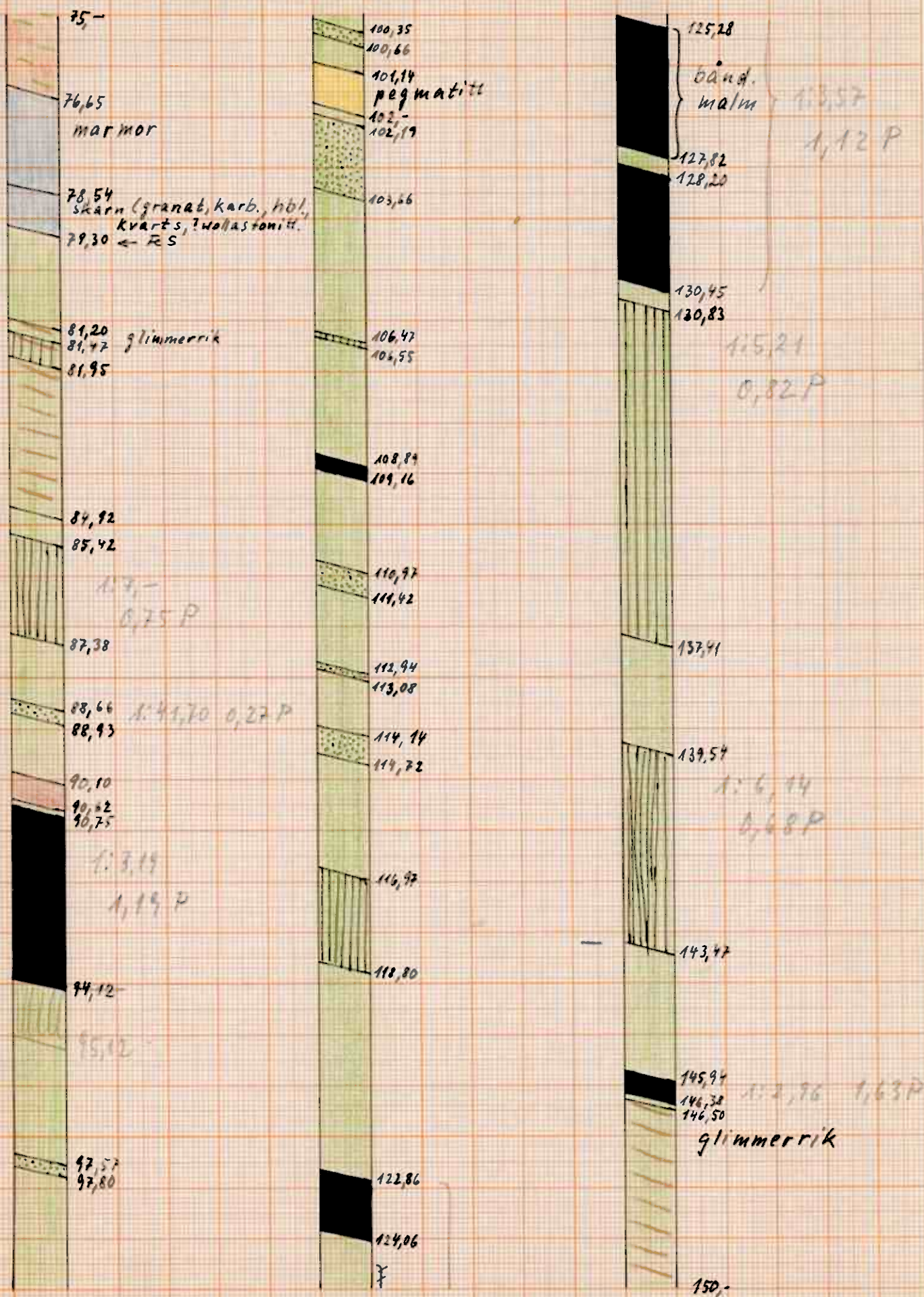
41,75

64,90

marmor

69,74

75,-





gemmaar: 122,26 - 132,41: 14,47 m, 1,4,30

0, -

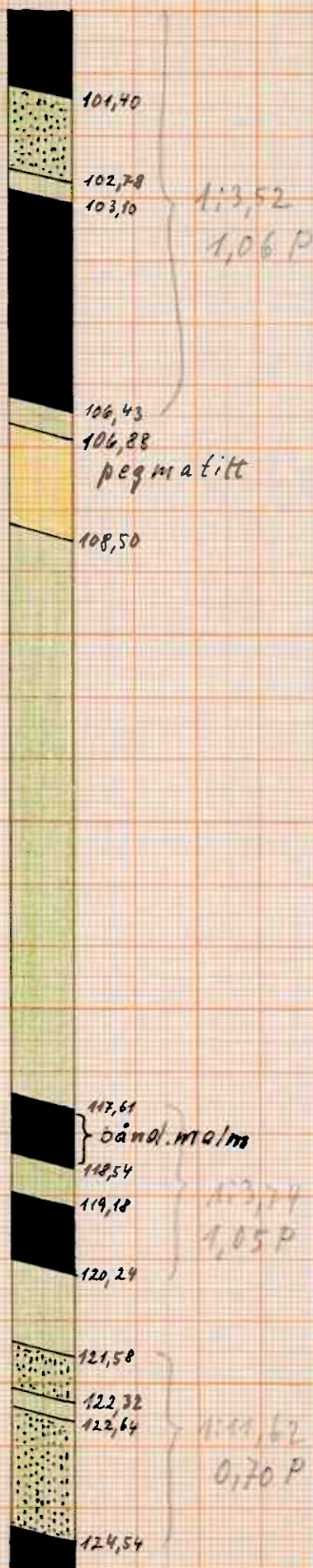
10, -
granat-
amfibolitt

12,85

45,70
46,20 kalsitt

70, -
hbl. för glimmer skf.
70,75
Marmor

74,35



1:3,52
1,06 P

1:3,97
bänd.malm
1,12 P

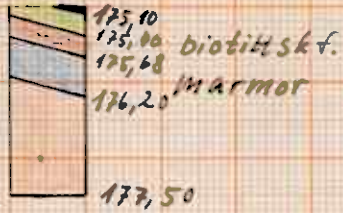
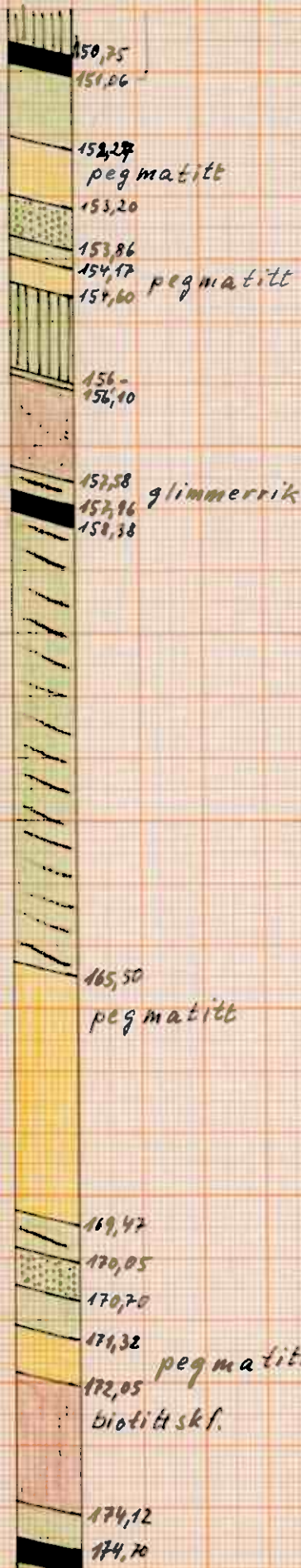
bänd.malm
137,76
138,91
1:3,27
bänd.malm
1,30 P

117,61
bänd.malm
118,54
119,18
1:3,74
1,05 P

121,58
122,32
122,64
1:41,62
0,70 P

142,25
143,42
1:5,95
0,79 P

147,35
149,20
1:4,42
0,90 P



glimmerrik

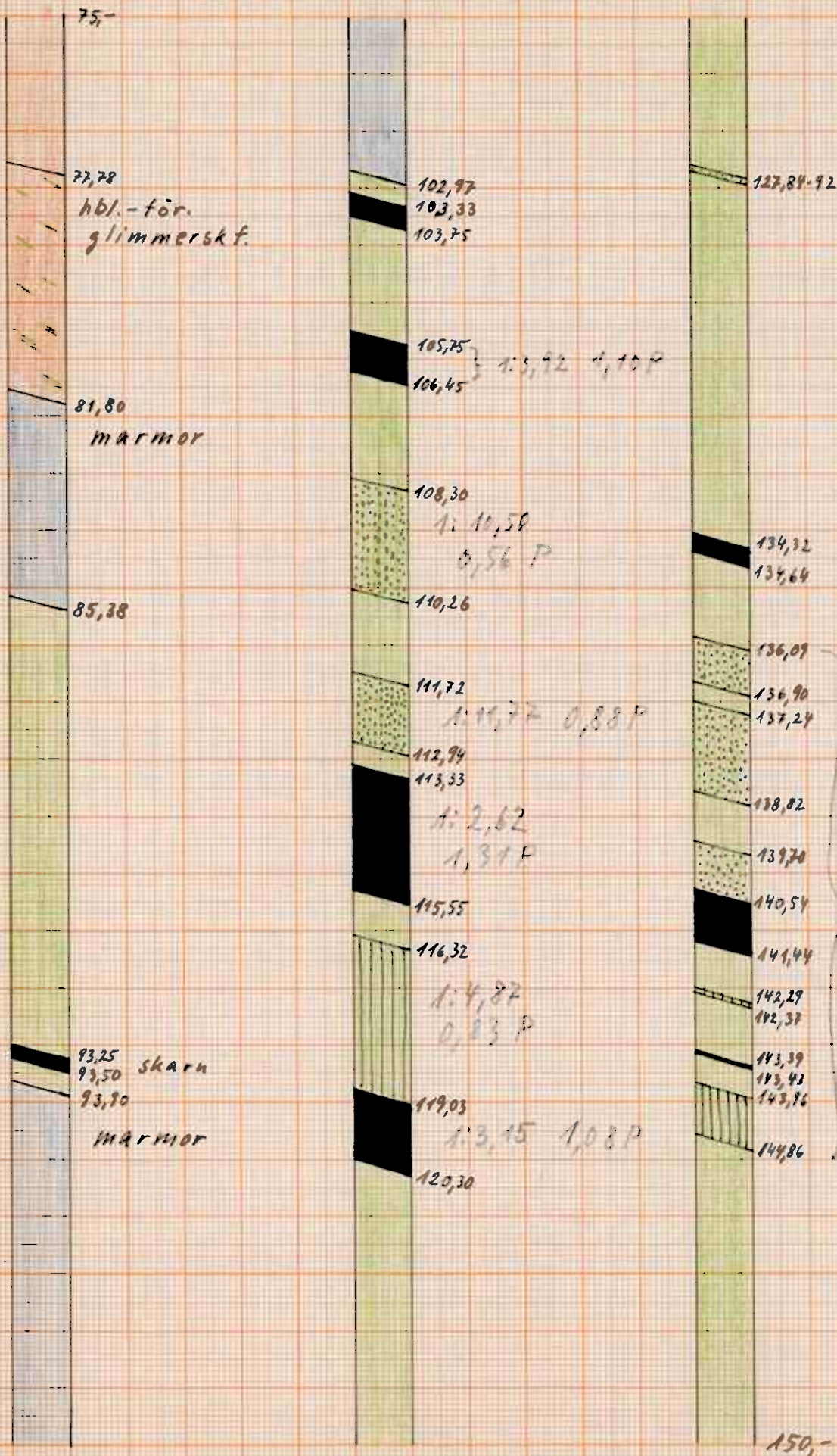
117,61 - 128,30: 10,69 m, 1: 4,83

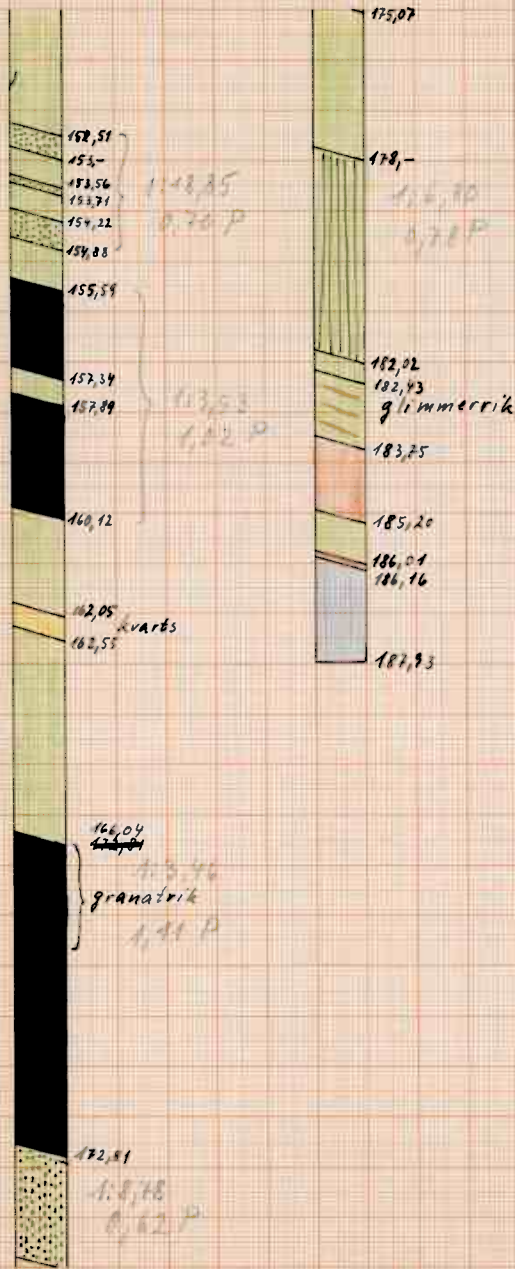
132,40 - 151,06: 18,66 m, 1: 4,62

132,40 - 142,25: 9,85 m, 1: 3,84

90

751





0,-

79,68

marmor

76,77

84,20
marmor

91,55

92,73
92,80
kjerneap
93,99
94,04

102,66 pegmatite
103,07 biotittskf.
103,85
glimmerför.

108,1

111,13

112,61

113,58
biotittskf.
114,60

117,45
hbl.-för.
biotittskf.
118,80

128,84

129,25

130,-

130,75

~~131,25~~

133,54-57 (magnetisk)

139,84

139,93

140,92

143,75

144,14

144,20

144,50

bånd.malm

bånd.malm

148,66

1.4,02

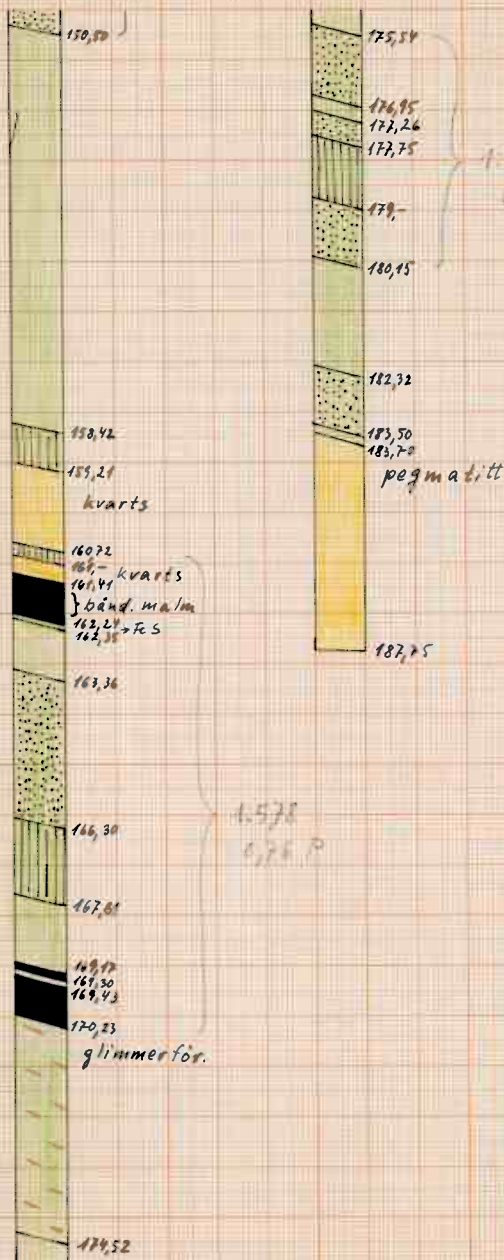
0,93 P

1.3,08

1,21 P

1.6,95

0,61 P



0,-

33,90
aplitt

36,73
hbl.-rik glimmerskf.
37,50

39,14 marmor
39,45

43,- kalk-amfibolitt
43,45
hbl.-för.
glimmerskf.

47,10
glimmer för. amfibolitt
m. noen marmorband

49,32

56,32

58,86

61,55 marmor
61,63

75,-

75,-

100,40

100,51

101,29

102,29

106,10

118,57

0,59 P

112,83

115,10

115,14

116,02

sand malm

118,32

119,83

120,30

123,24

123,55

Kvarls

124,20

124,85

124,72

125,08

125,52

127,89

128,12

130,62

130,94

133,12

133,45

141,98

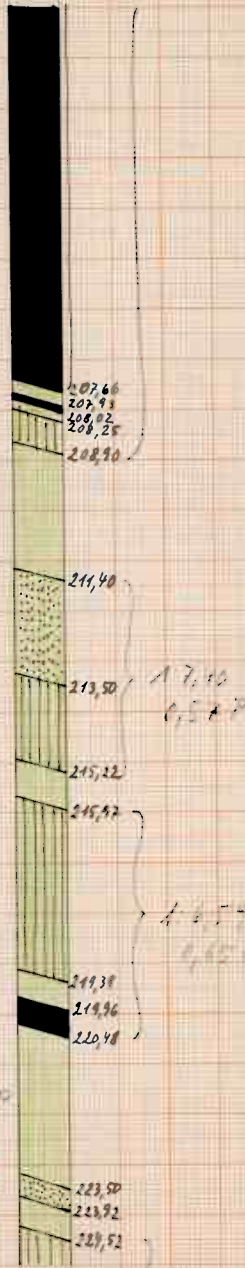
142,10

143,53-59

144,05

145,15

150,-







75,-
76,90
77,42 marmor
77,56

84,55
glimmerför.
amfibolit

92,04
92,44

105,15

106,03

107,08

107,78

109,27

110,20

110,92

112,52

115,20

115,33

116,26

119,40

122,26

124,33

1:4,72
0,86 P

1:14,50
0,42 P

125,36

125,80

126,22 aplitt

126,65

129,-

1:2,31

1:13 P

bänd.malm

133,-

134,10

135,50

137,60

138,31

140,-

141,-

142,55

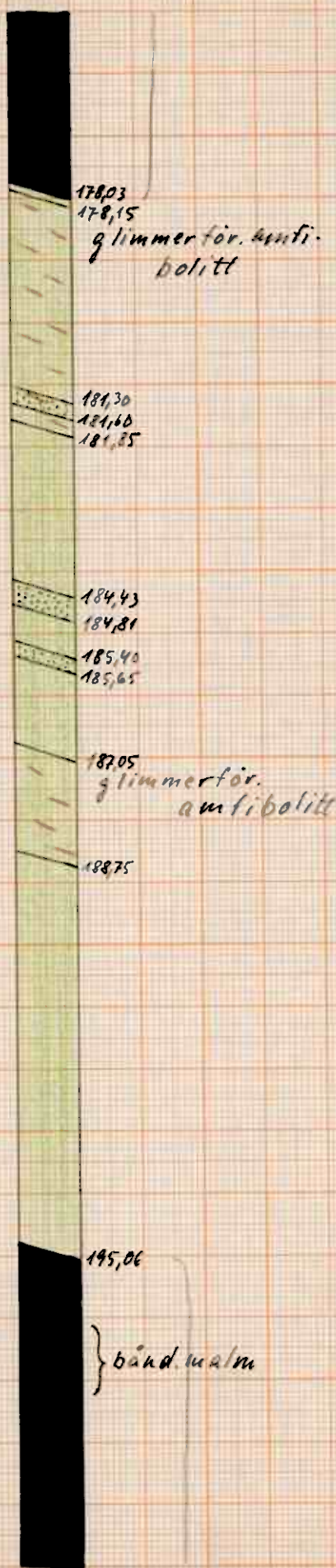
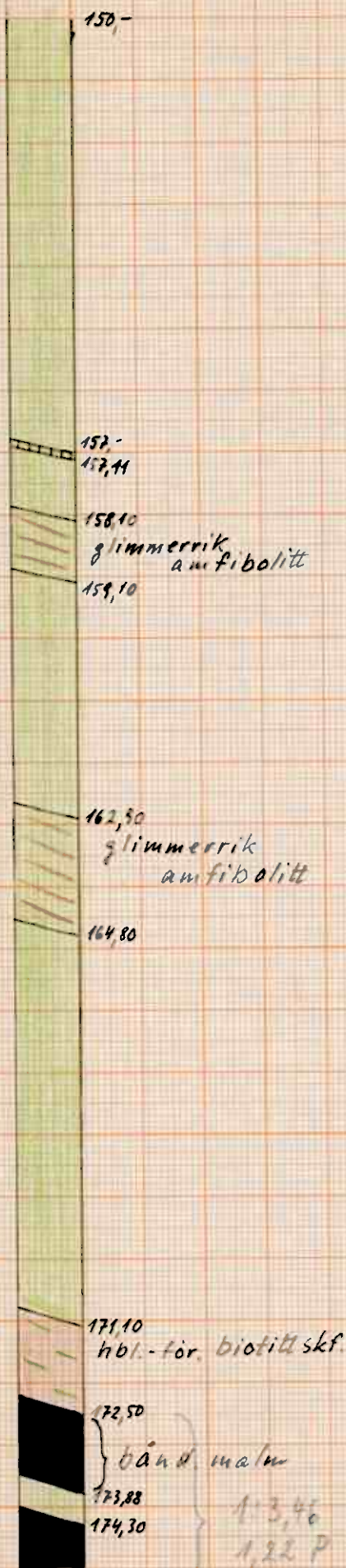
143,30

pegmatitt

150,-

1:5,85
0,73 P

1:4,34 0,96 P



225,18
226,15

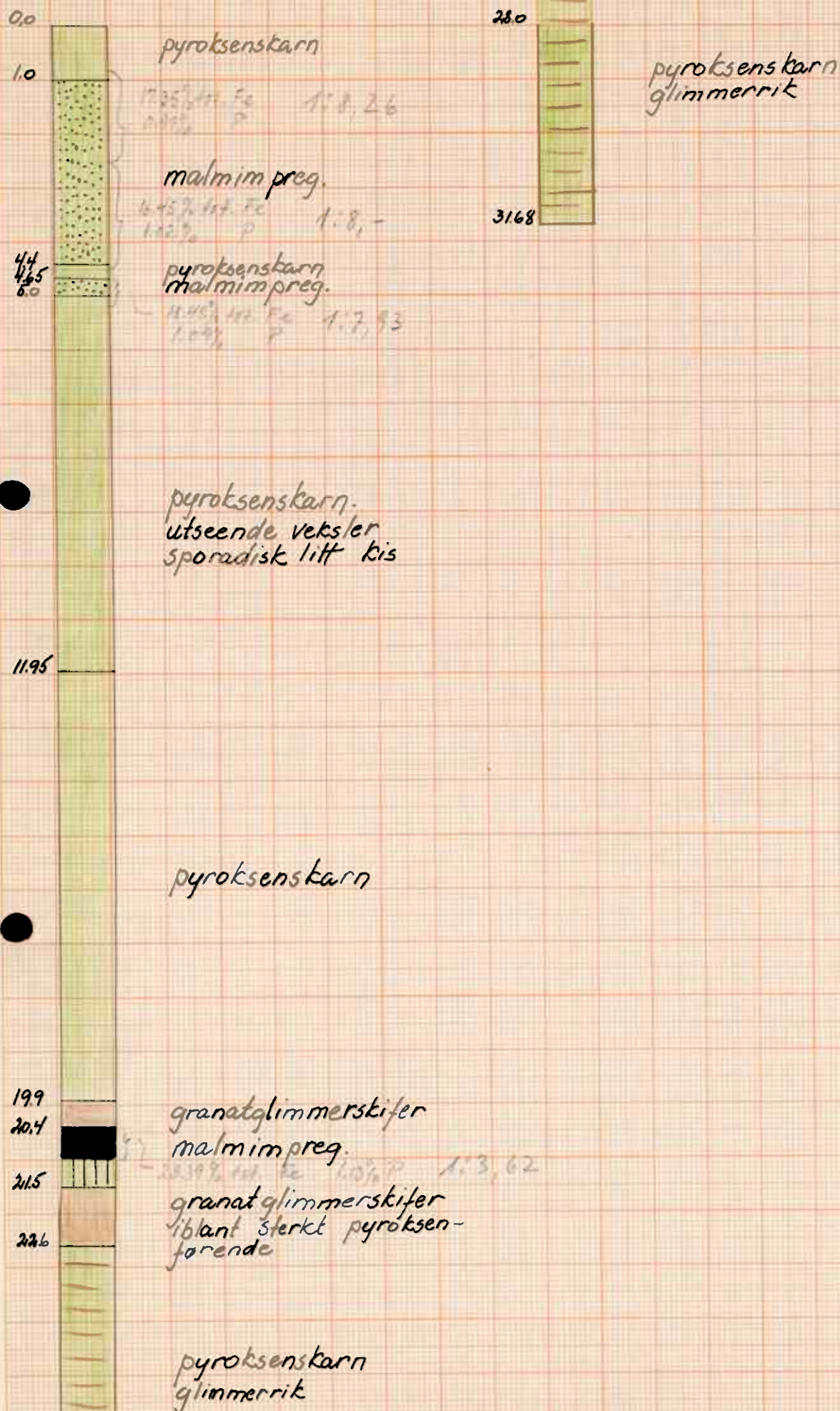
254,34

229,95
1:7,87
0,62 P
232,18

233,35
233,48

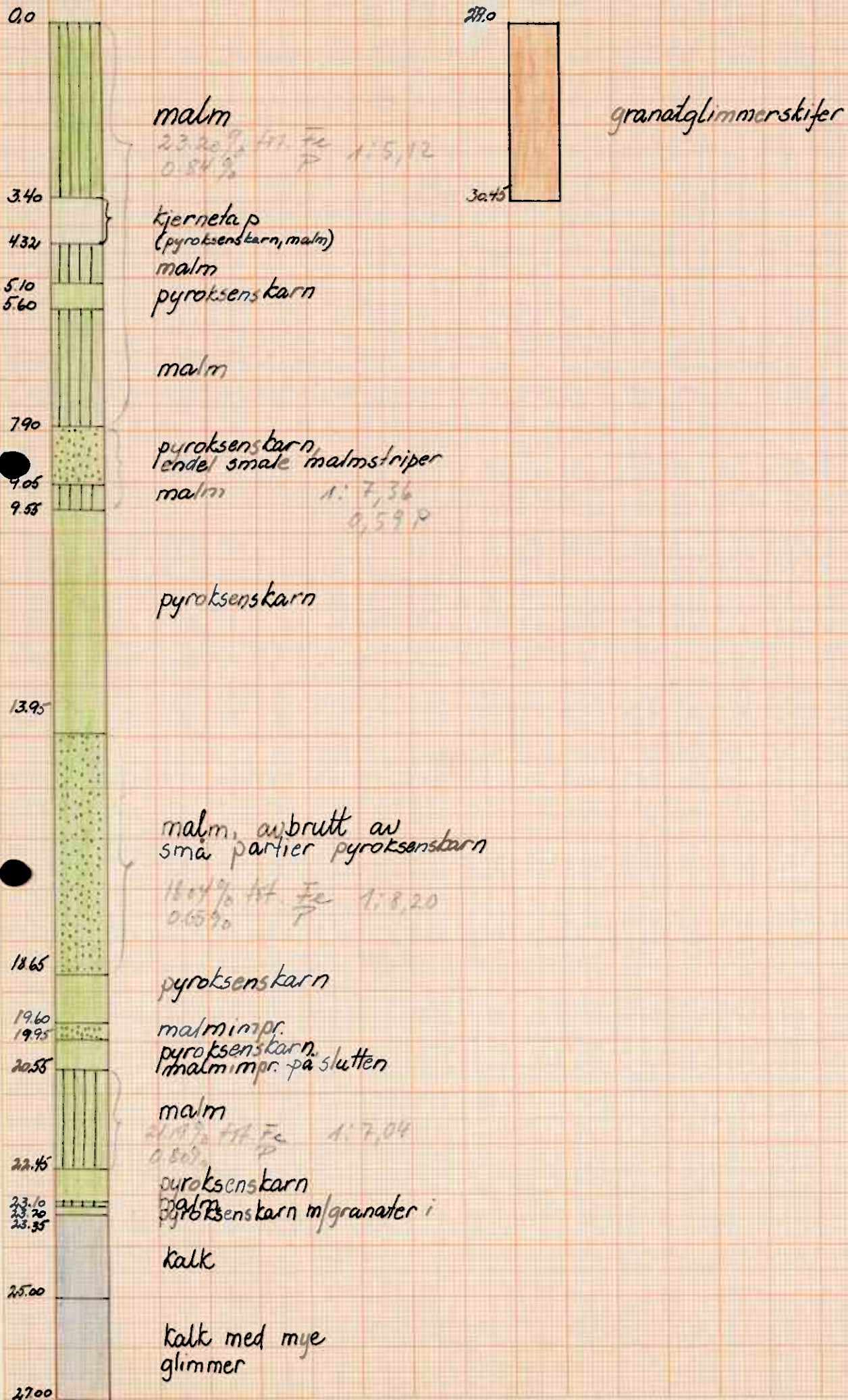
236,20
1:8,13
0,62 P
238,38

FeS
240,99
241,44
Marmor



101

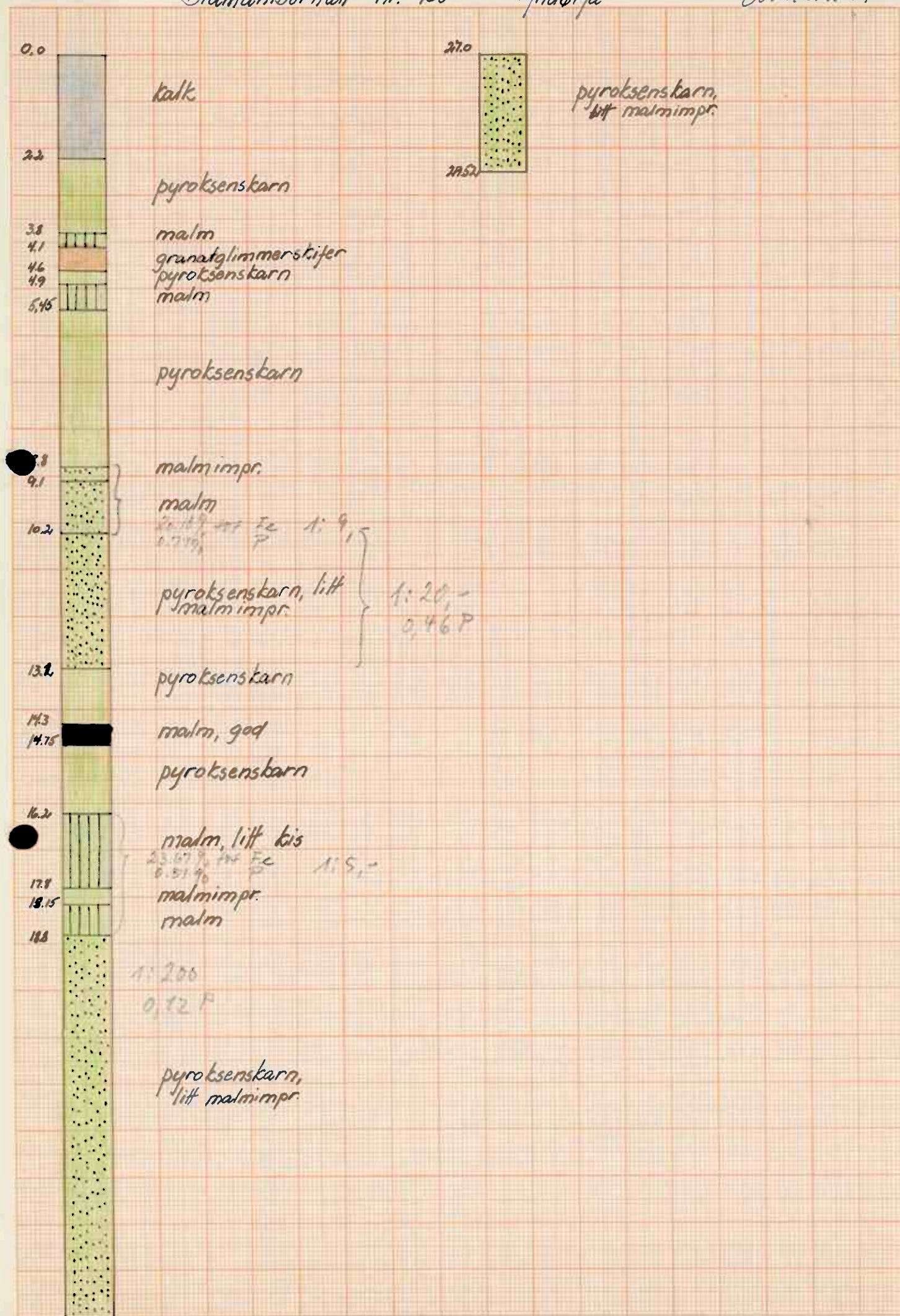


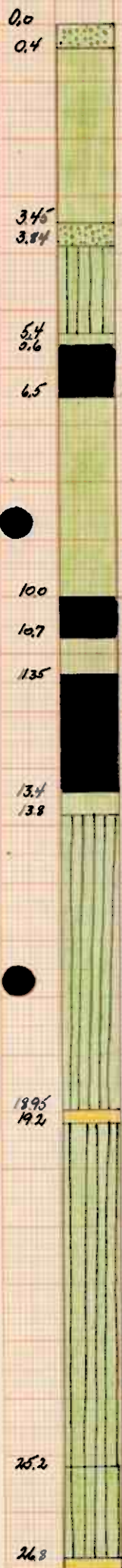


103



104





malmimpr.

pyroksenstarn

malmimpr.

malm

pyroksenstarn
malm, god

pyroksenstarn

malm, god
pyroksenstarn

malm, god

26.4% tot Fe
1.86% P

pyroksenstarn

malm, god

28.93% tot Fe
0.99% P

kvarts

malm

19.76% tot Fe
0.72% P

malm

pegmatit



pegmatit
malm
pyroksenstarn
malm

pyroksenstarn

malm

pyroksenstarn

26.05 Fe (10)
1: 3.20

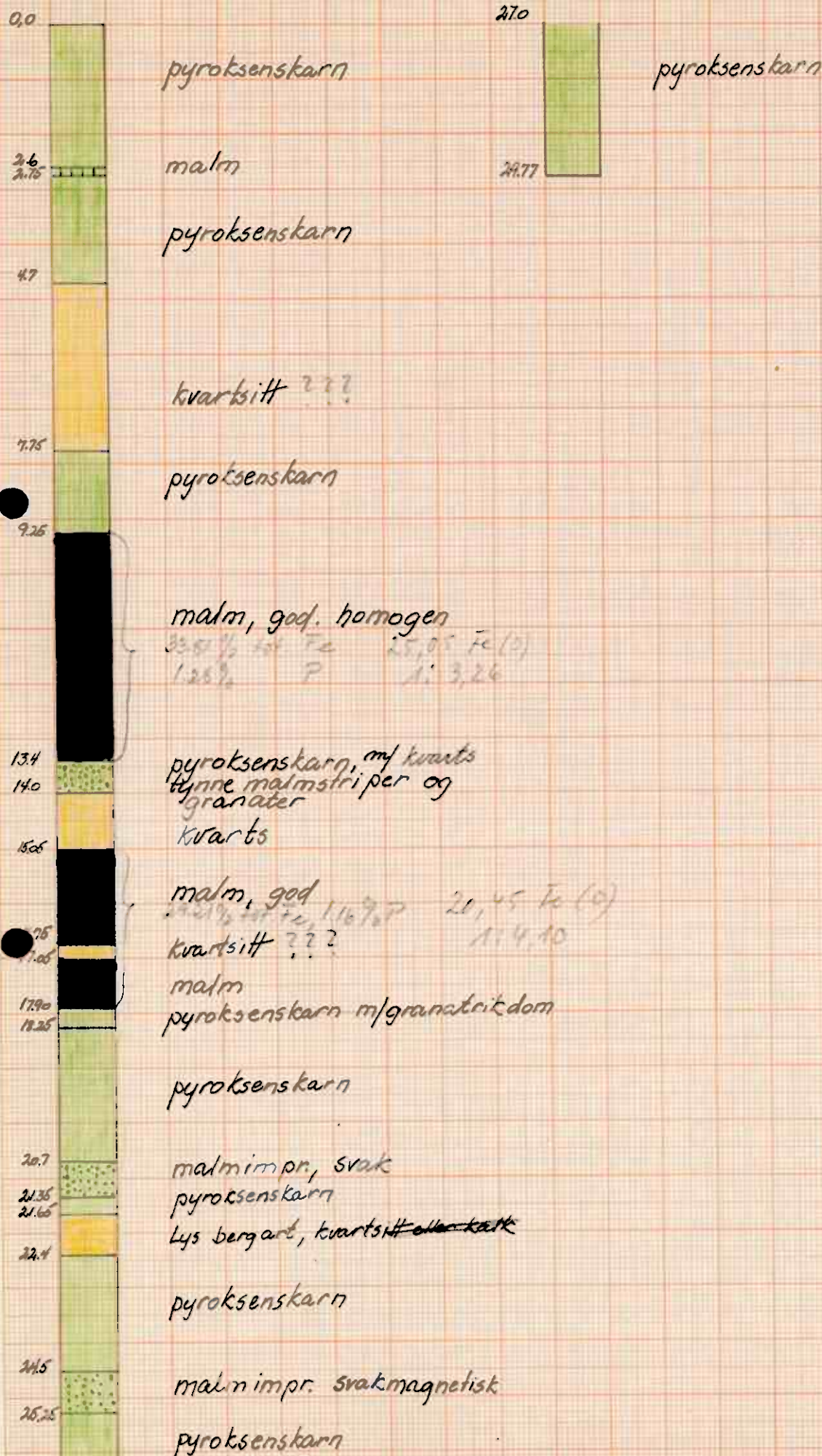
19.65 Fe (10)
1: 4.36

19.76 Fe (10)
1: 4.51

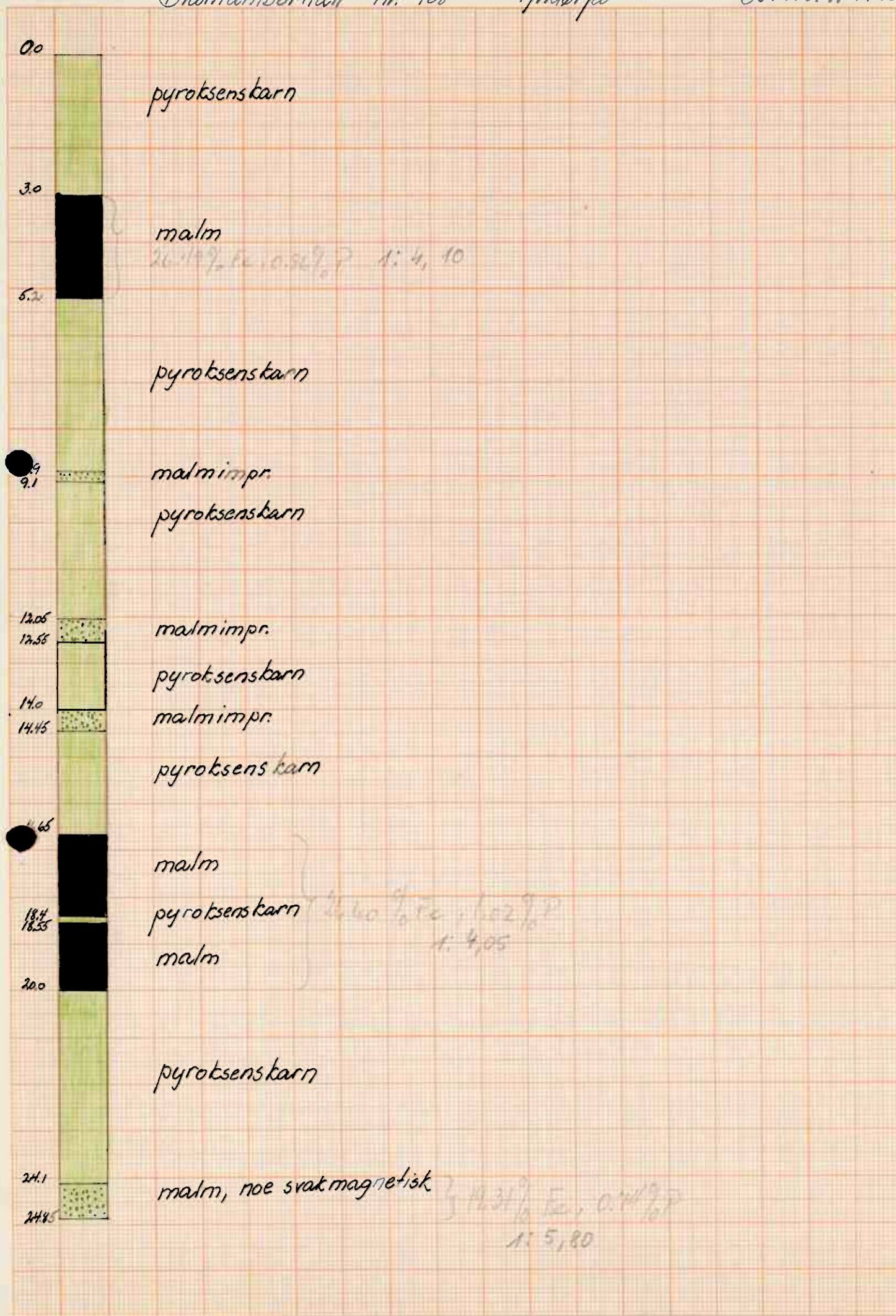
19.20 Fe (10)
1: 4.23

19.50 Fe (10)
1: 6.93

106



107



108



pyroksenstarn

malm, god

pyroksenstarn

malm, god

pyroksenstarn

malm impr.
pyroksenstarn

malm god

pyroksenstarn

granatglimmerskifer

pyroksenstarn
kalk

12.75 F (10)
14.30

15.85 F (10)
16.10

109

0.0

27.0

27.85

28.65

30.00

malm, god

31.37% tot. Fe, 1.21% P

skifer

1:2,98

malmimp.

skifer med noen
kvartssstriper
60% kjernet  p

4.93

skifer

7.72
9.0

malm, god

10.15

skifer

28.23% tot. Fe, 1.24% P

malm, god

1: 4.03

11.60

skifer

13.40

malm, god

26.90% tot. Fe, 1.31% P
1: 3.43

17.90

malm, mindre god

19.35

skifer

19.70

kvarts

19.85

skifer

15.75% tot. Fe, 0.69% P 1: 7.50

20.55

malm

21.75

skifer

22.12

kr  tt

22.37

skifer

24.10

skifersone med malmstriper

25.65

malm, god

110

0.0
0.35
1.57% skifer med impr
0.78 50% tjernetap

27.0

29.45
29.74

malm, dårlig
24.25% tot. Fe 1.5, 24
0.55% P
skifer, litt malmimpr.

skifer

erup. pegmatit

skifer

skifer med impr.

skifer

erup. pegmatit

skifer

impr. malm

skifer

31.79% tot. Fe, 1.29% P 1:3, 10
malm, god

skifer

malm
pegmatit

malm

skifer

malm

skifer

malm

skifer

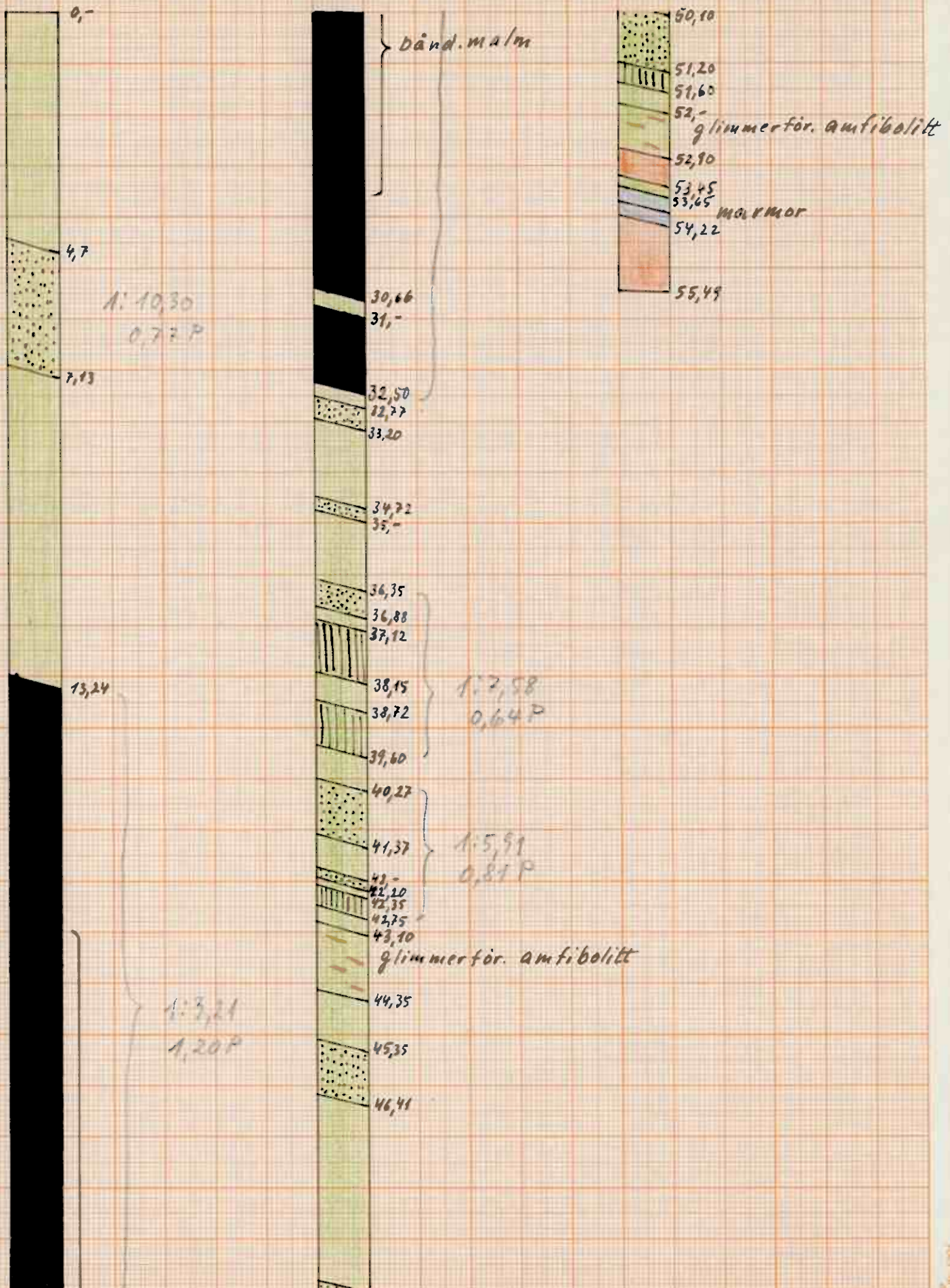
malm
pegmatit

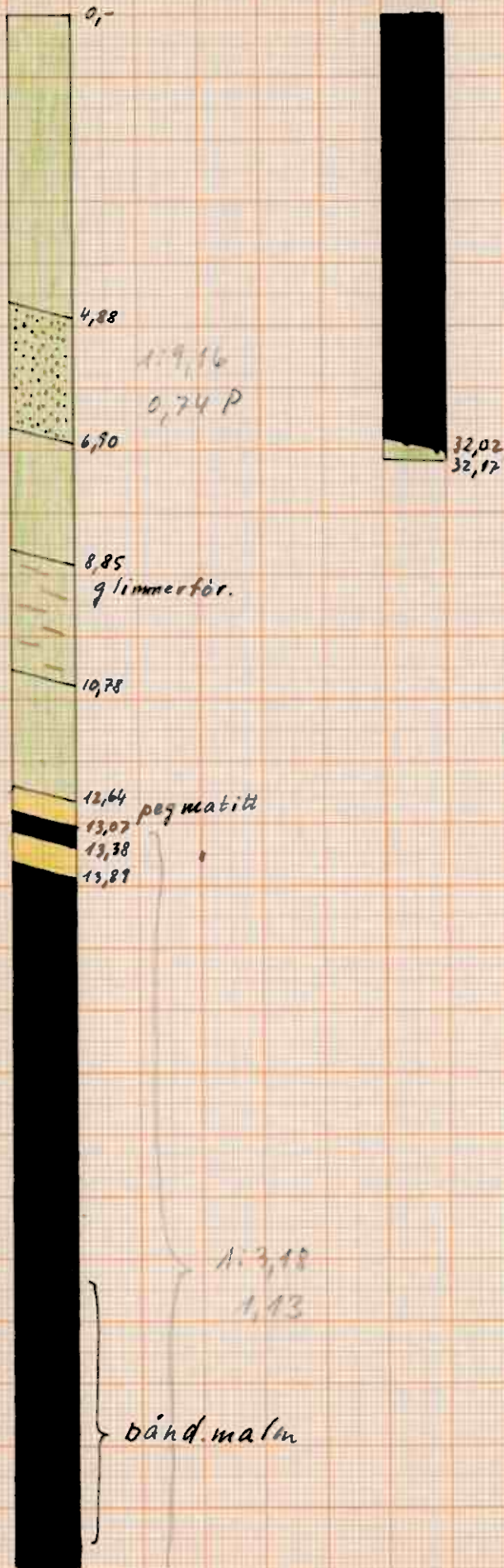
skifer

malm

skifer

malm, dårlig





0,-



4,75

5,99

6,41

7,-

7,40

18,85
18,90

20,13
20,24

21,85
21,94
22,04
22,37
22,41

23,78

24,25
24,37-49
24,58-65
24,84-98



25,75
26,05
26,36
26,51
26,71

27,54
27,84

29,05
29,27

30,59
30,91
31,19
31,59
31,71
32,12
32,54
33,19

33,97
34,37
34,64

35,25
35,66

37,99

1,11, - 0,22 P

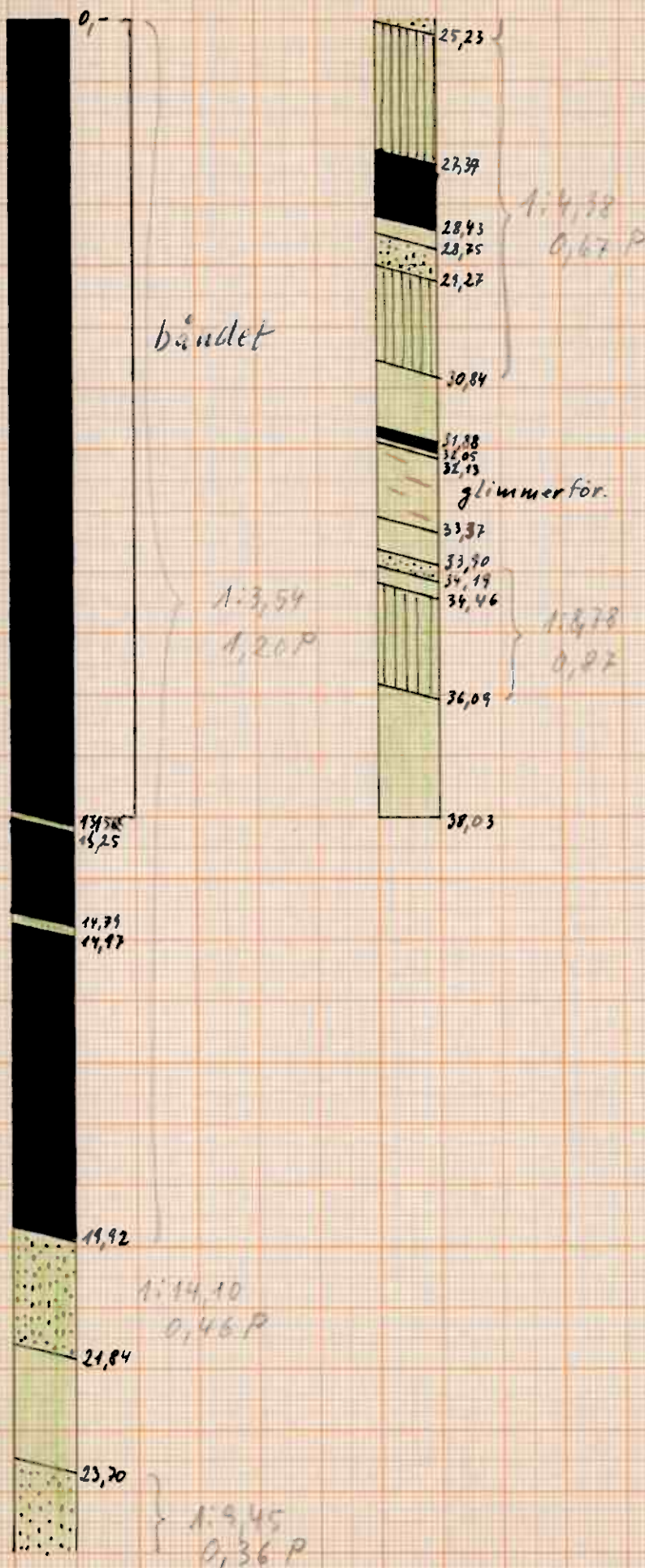
1,7, 94

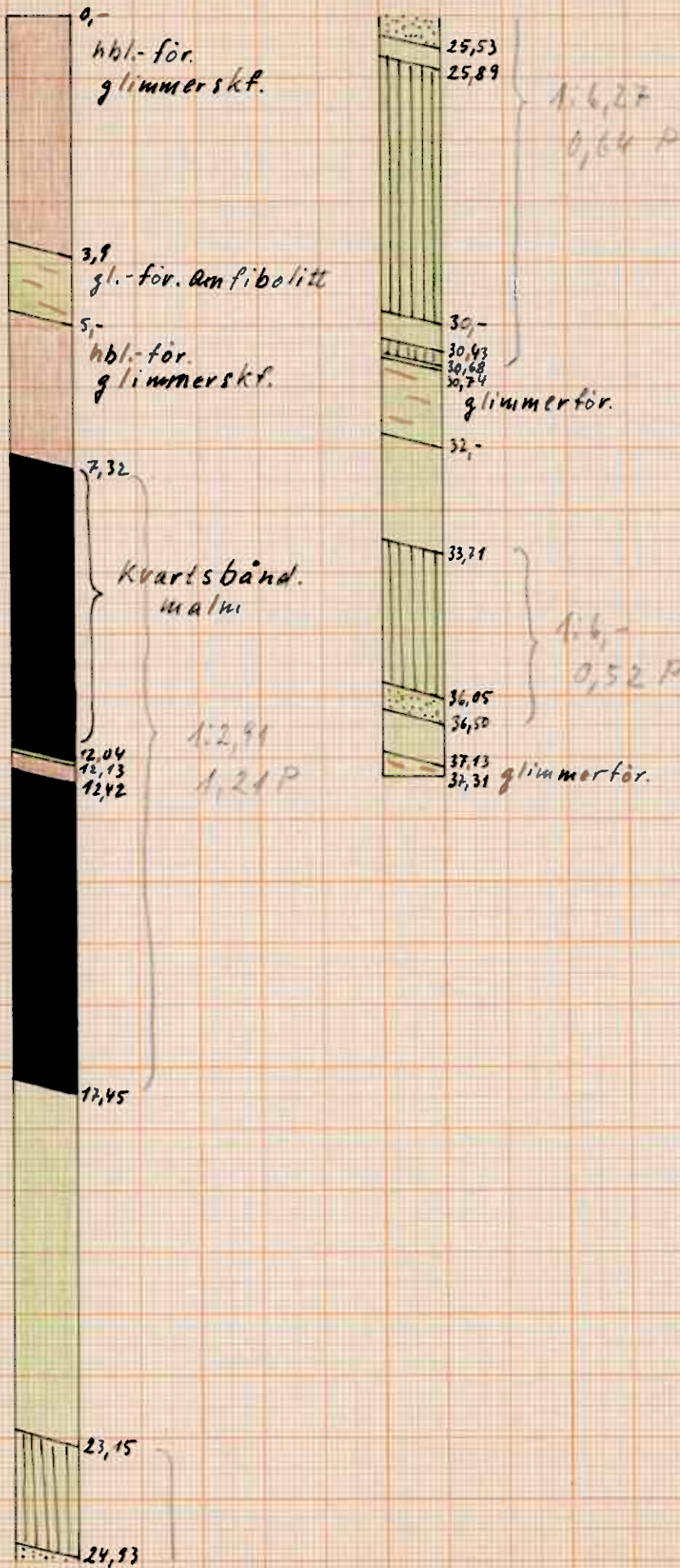
0,38 P

1,3, 34

1,33 P

gegenwärtig als helle sonne: 30,34 m und 1,4,33







17,10
0,52 P

13.12.60 Jr.



17,15
1,05 P

7,23

7,91

10,1

10,94

15,30

16,70

19,42

20,1

20,60

20,65

24,50

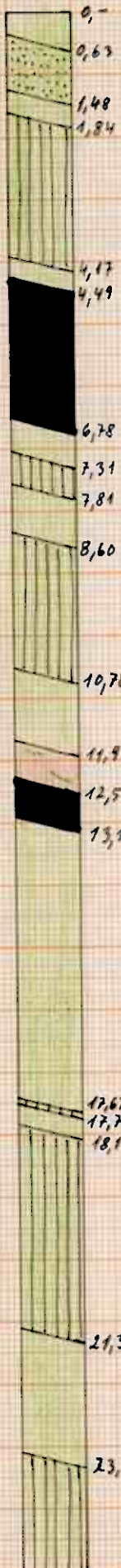
glimmer för.



11,6,1
0,04 P

17,75
0,56 P

100 A - 1000

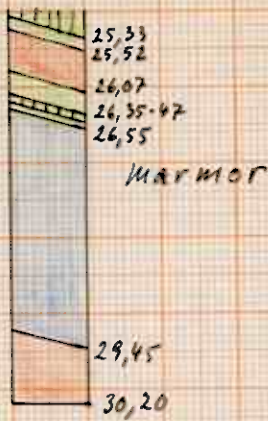


1:4,88
0,72 P

hbl. för. glimmersk f.
1:3,42 1,03 P

1:5,16
0,60 P

1:6,58
0,64 P



0,-
hbl. för
glimmerskf.

1,15
1,40

bändet

1:3,32
1,08 P

9,29

9,82

15,17

18,54

18,64

21,37

23,88

24,12-16

24,26-38

24,62

24,94

1:6,54

0,63 P

25,4

26,55

27,87

28,46

28,92

gl. för. amfibolitt

31,-

31,50

1:7,69

0,64 P

34,54

38,42

39,15

39,44

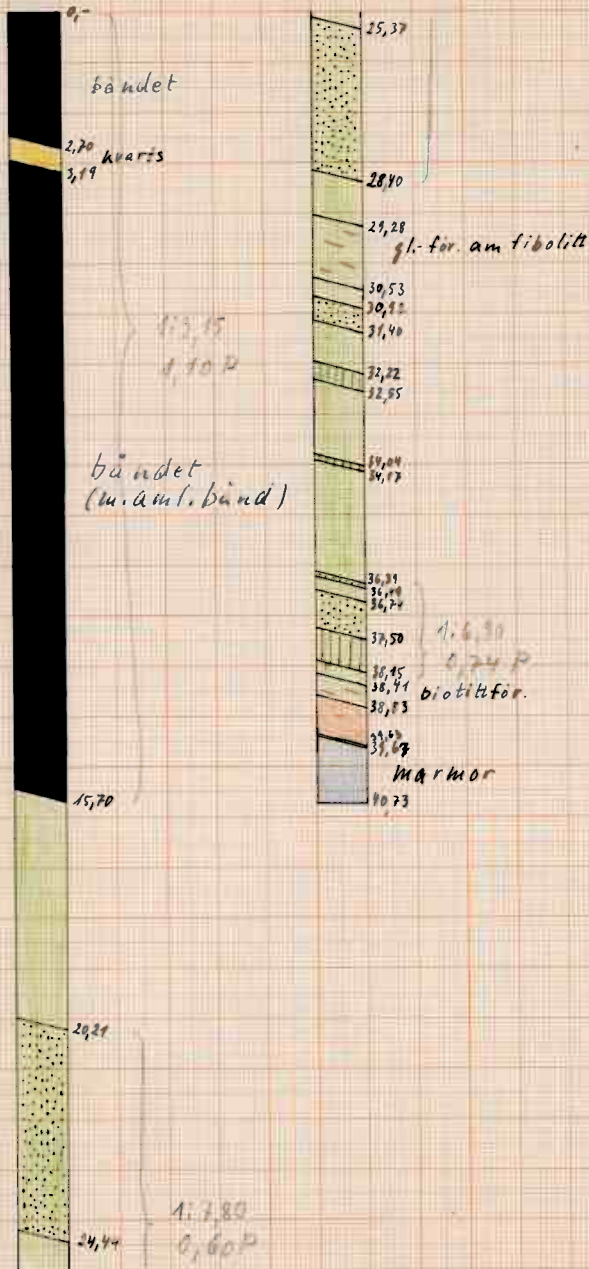
39,71

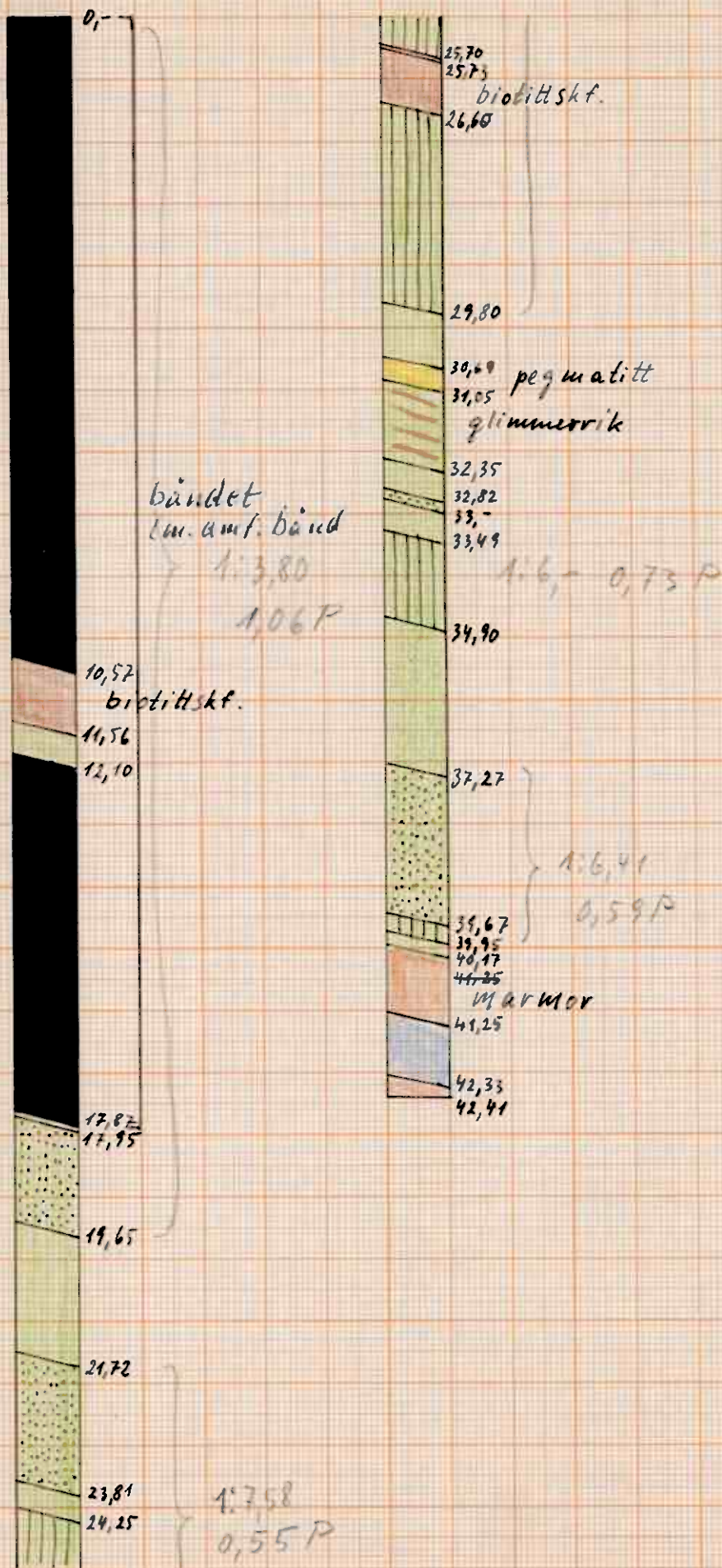
gl. för. amfibolitt

40,79

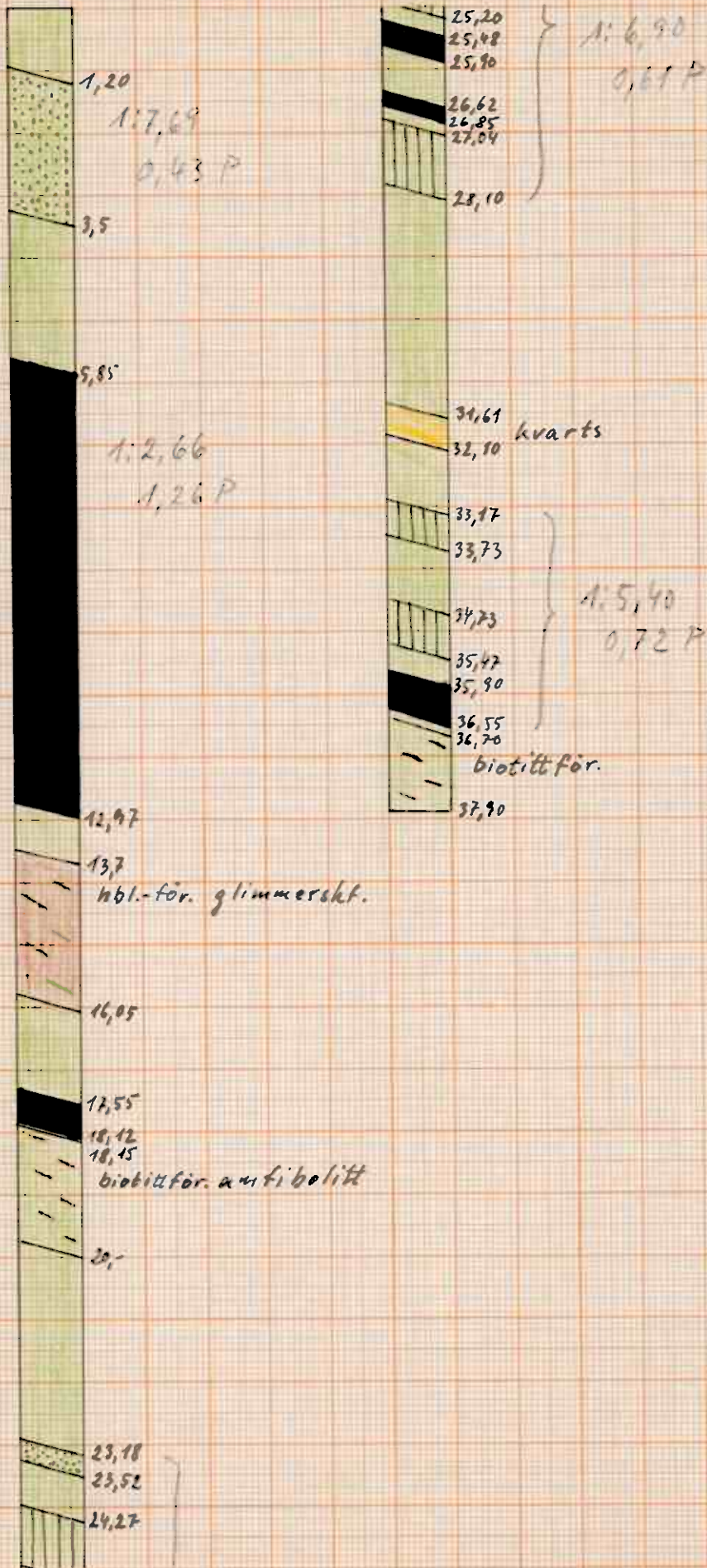
marmor

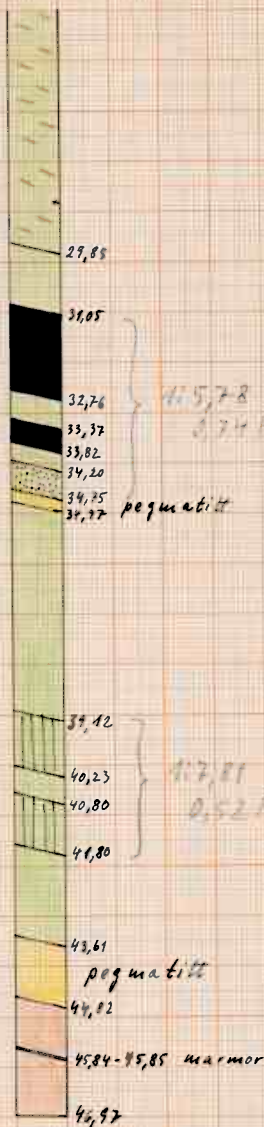
41,47











415,72
0,71 P

417,81
0,52 P

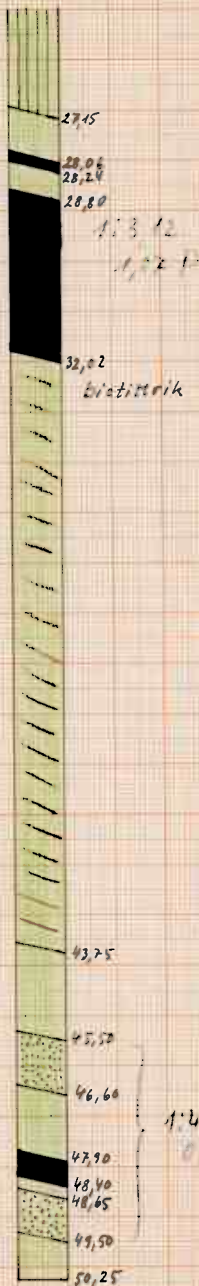


1:2,82
1:0,3 D

1:2,47
1:1,6 D

1:2,93

1:2,53
0:1,5 D



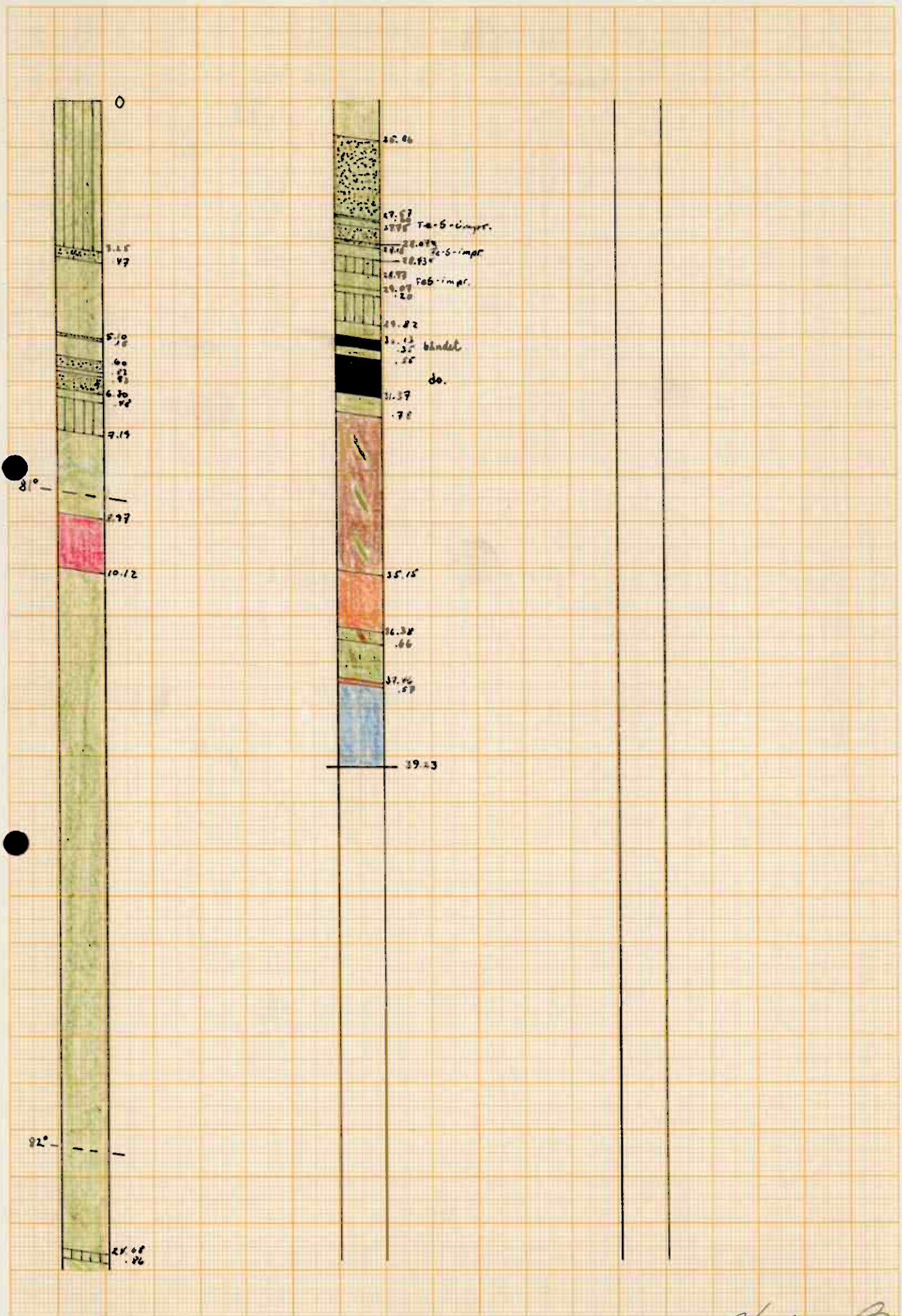
1:3,12
1:2,1 D

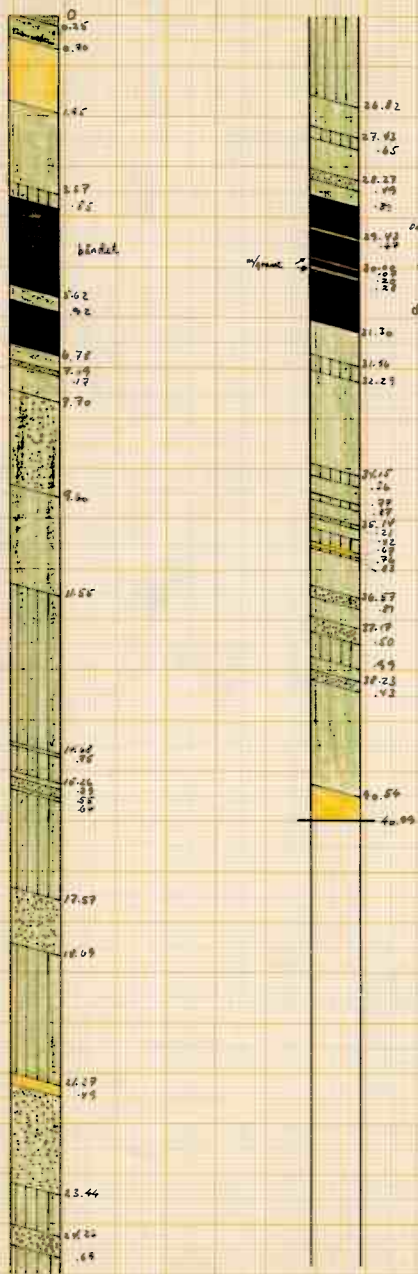
32,02
biatitrik

1:4,24
0:1,2 D

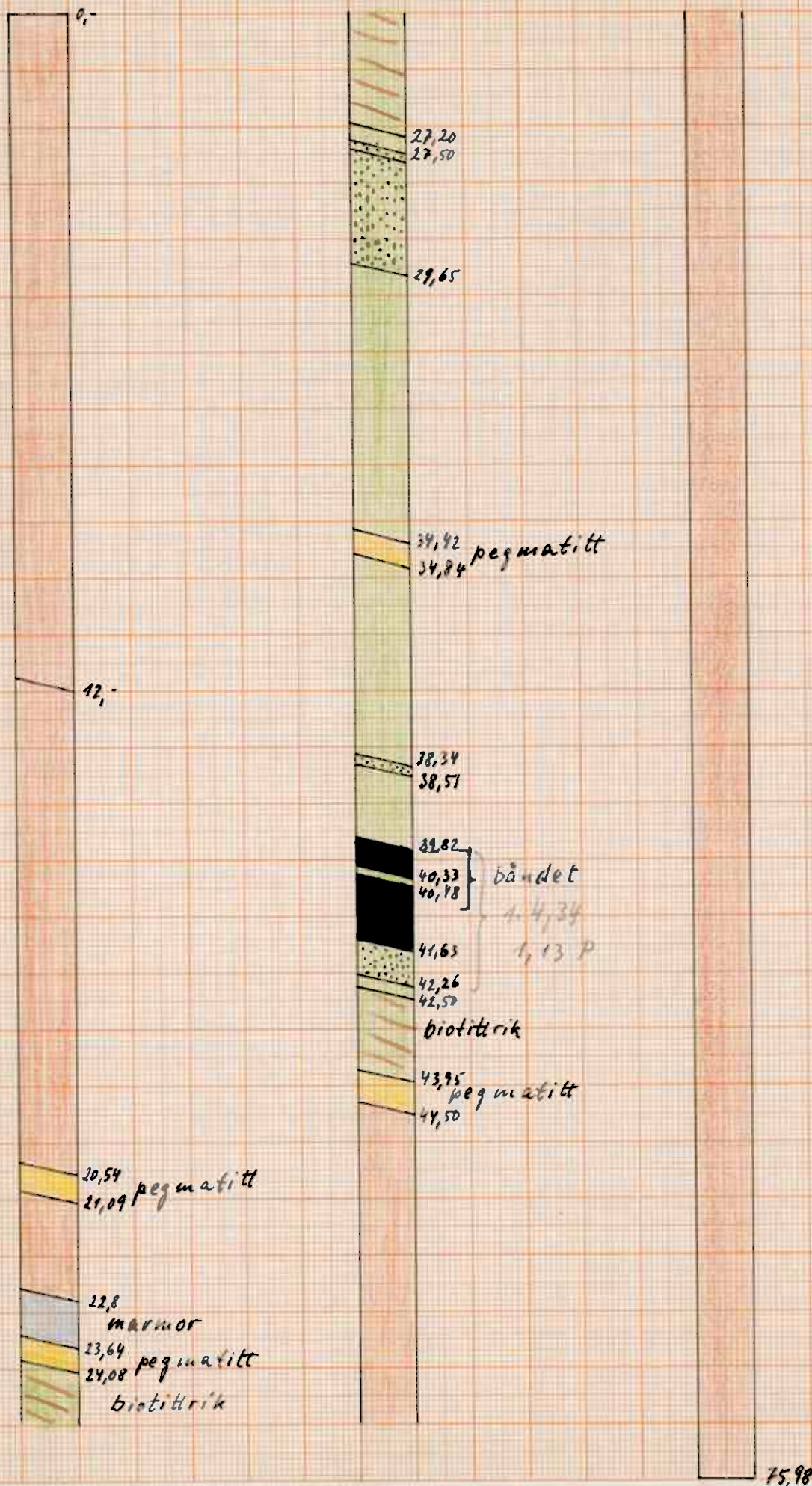


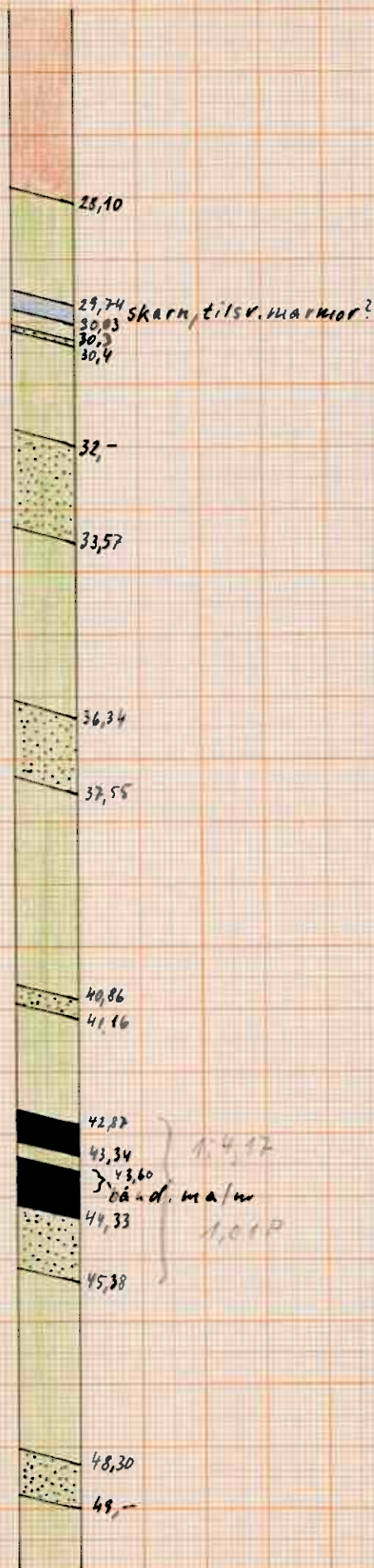


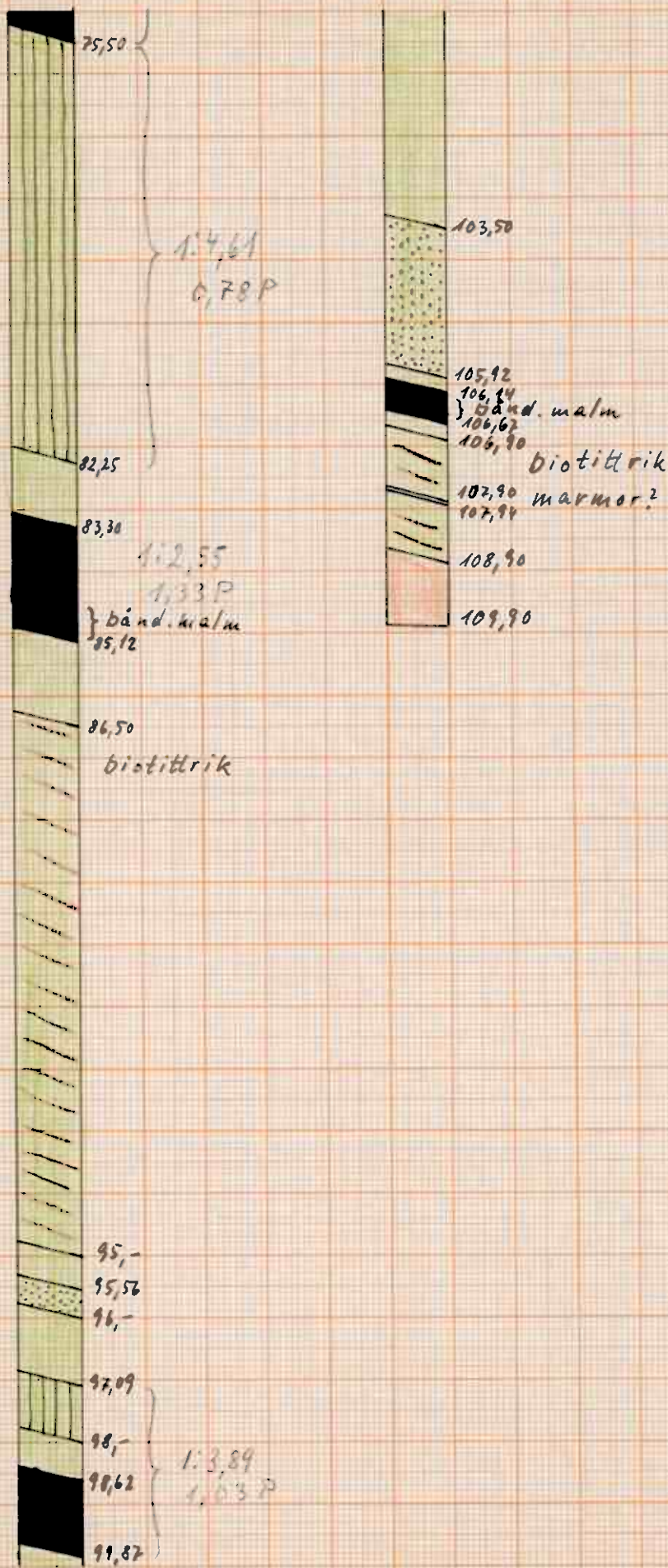


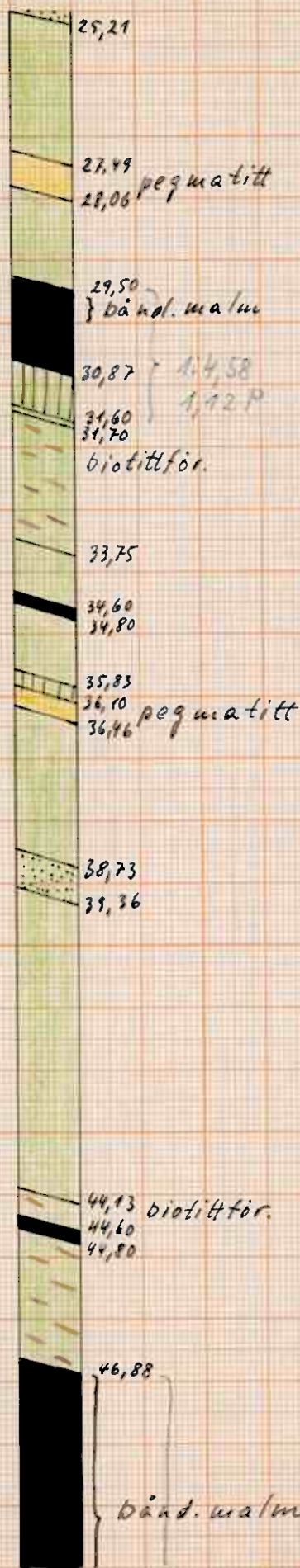




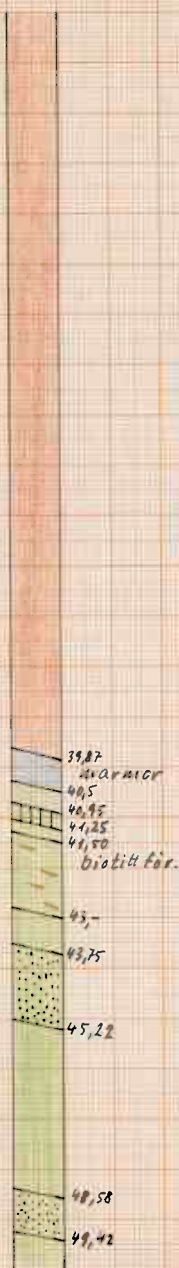


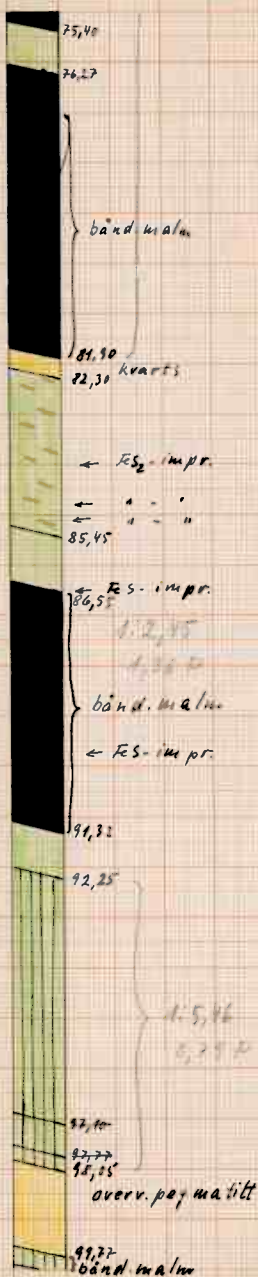


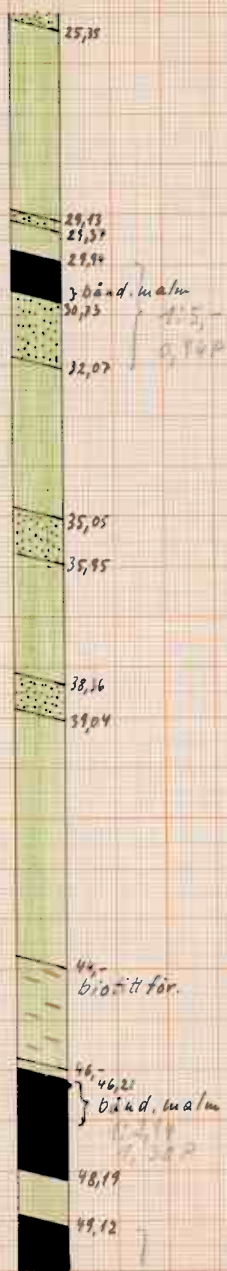


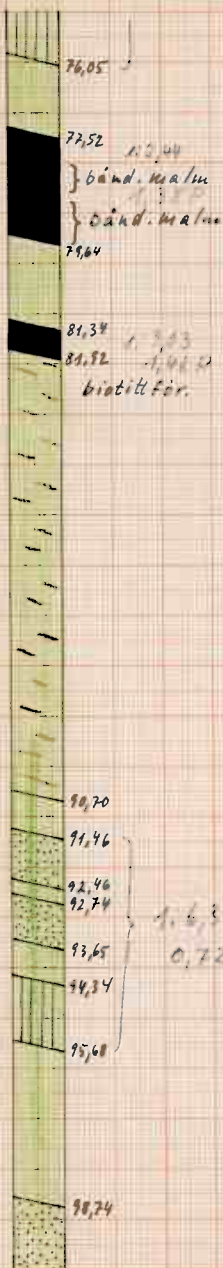












1,6,37
 0,72 P

97

26,67
glimmerför.

52,89

25,10

31,82
32,22 lys

10,61
11,24 lys

40,43
40,71 lys

0,-
pegmatitt
1,-

26,12 marmor
26,23 pegmatitt
26,50 marmor
26,95 marmor

27,40
27,90

28,90
biotitt för.

30,10
30,84

34,02

36,30

37,60

38,40
38,55

39,76
40,-

40,84
41,30
41,72

biotitt för.

43,08

Öänd. malm

45,85 } 1,3,08
1,24 P

48,20

52,24
52,60

54,72

55,75

59,48 kvarts
59,94

62,05
62,36

64,52

3. Öänd. malm

65,42 } 1,3,73

65,82 } 0,94 P

66,52

67,58

68,03
68,30

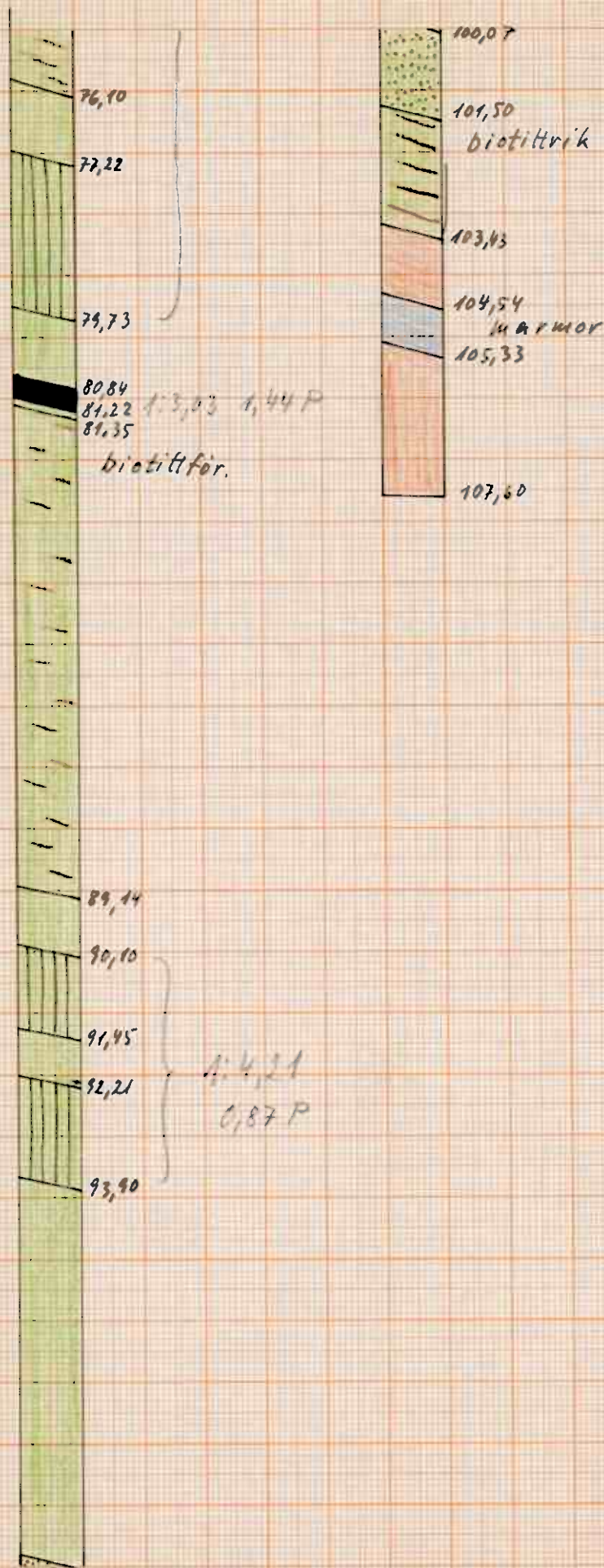
Öänd. malm } 1,5,78
0,75 P

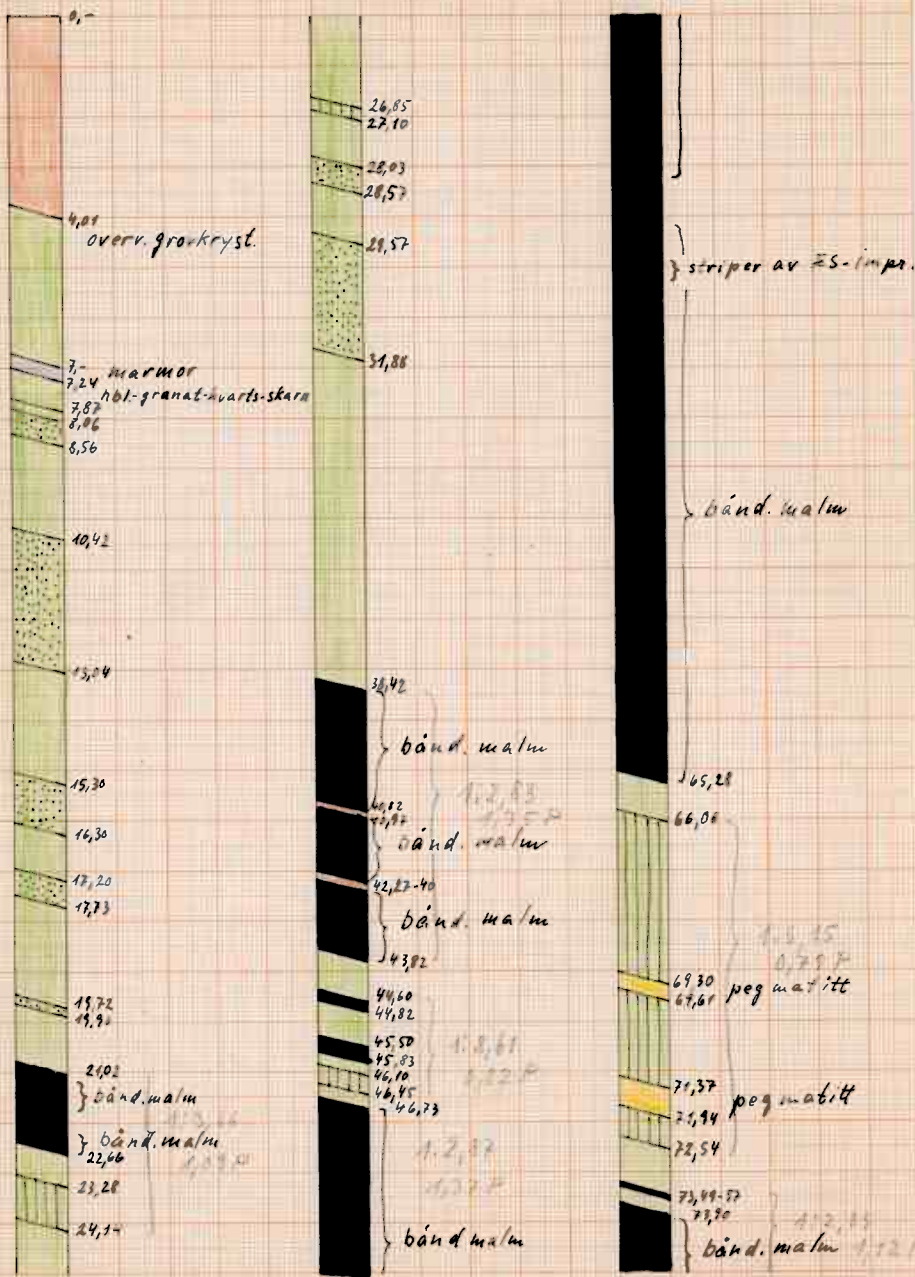
72,33

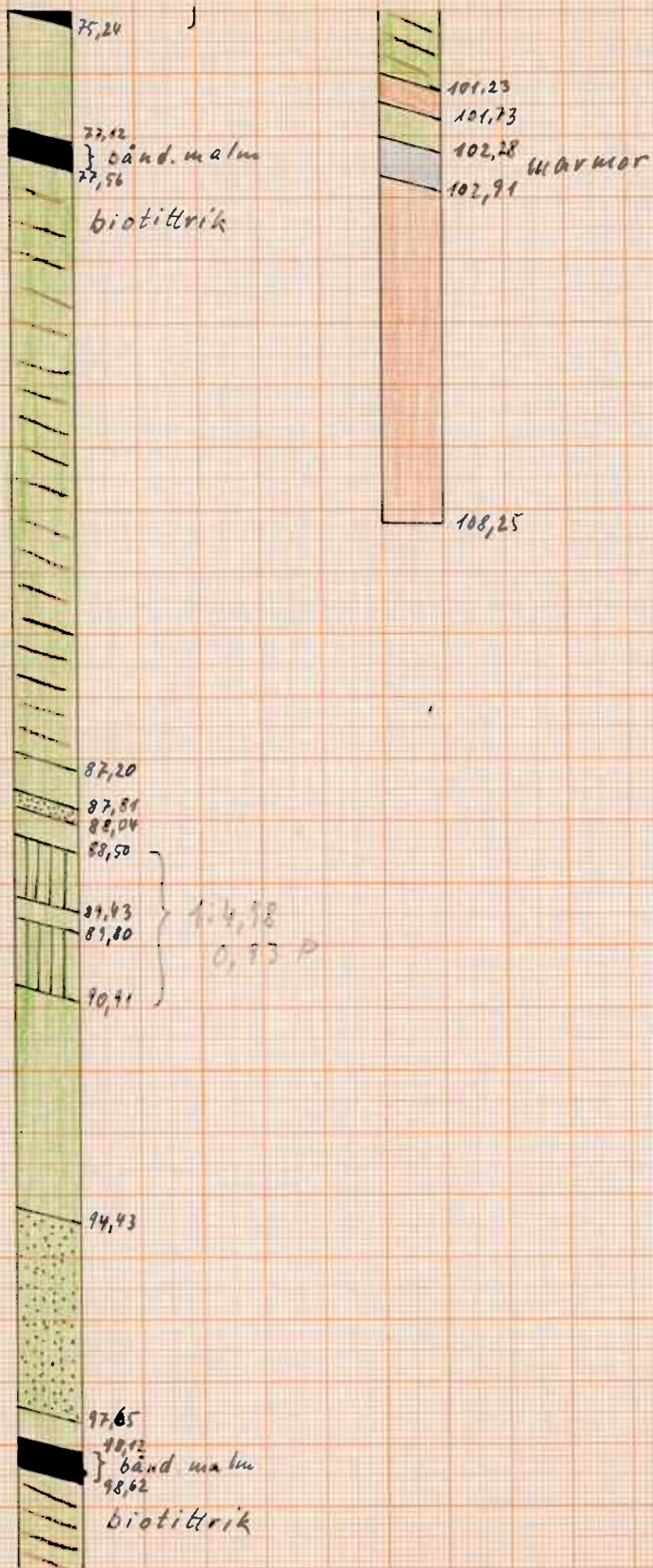
73,-

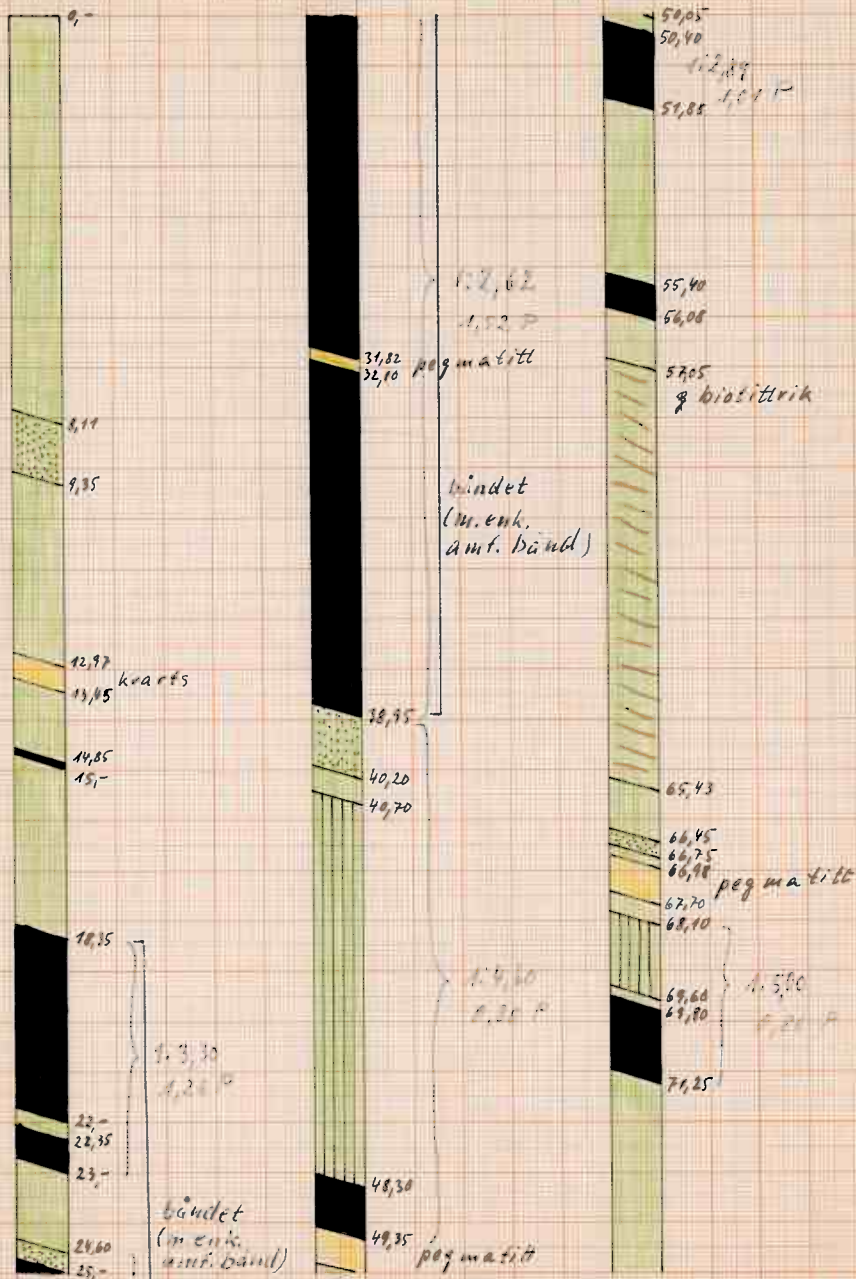
glimmer för.

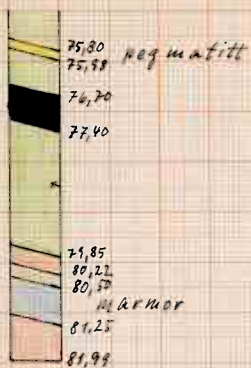
75,-







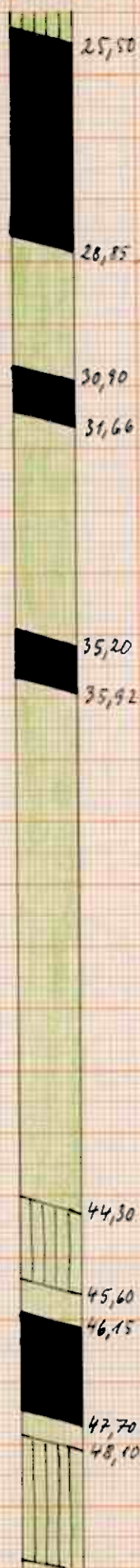






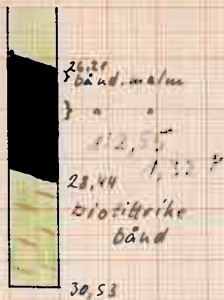
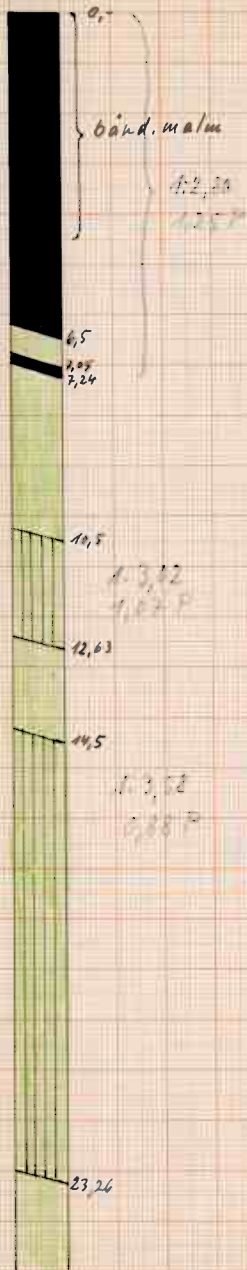
1:2,74
1,40 P

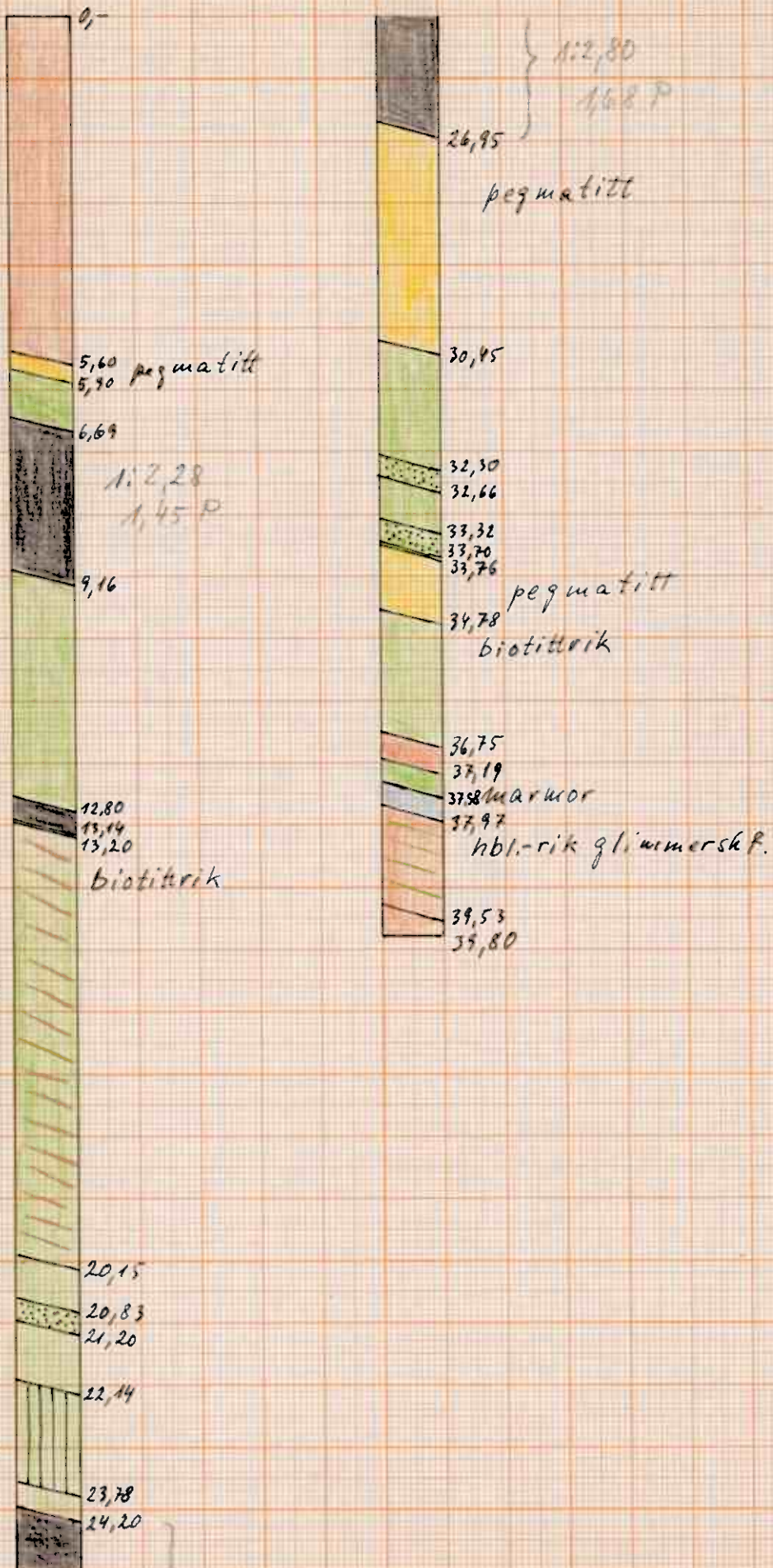
1:3,29
1,07 P



1:4,81
0,92 P







0,-
3,-
Marmor

4,02
4,50
5,23

9,08
9,68
pegmatitt

13,31

15,45

17,60
18,30
18,90

23,25

1:4,31
0,96 P

26,17
26,82

28,88
29,35-39 marmor

31,75-80

33,23
33,80
34,32

36,-
37,42

38,70
pegmatitt
39,78

42,87
43,26
43,53
43,87
pegmatitt

45,88

48,27
49,-

1:3,26
1,38 P

51,60

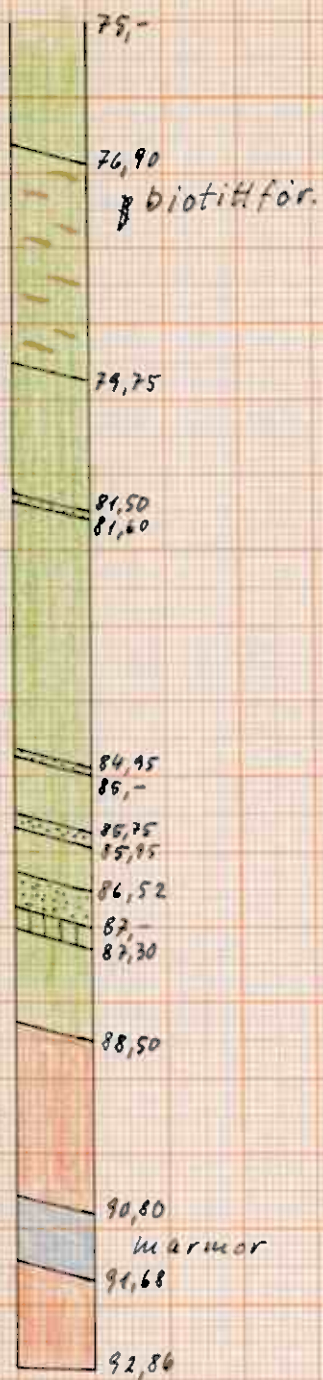
bändet

55,55

1:3,05
1,16 P

65,57
65,74-92
66,13

71,17
71,43
71,60
72,-
72,68



0,-
grovkryst.

1,18

marmor

3,30

4,28

4,40

7,60

118,93

0,65 P

10,20

12,11

pegmatitt

12,89

12,96

15,71

16,68

17,39

21,93

23,57

23,88

24,76

24,85

113,36

1,09 P

pegmatitt

25,33

27,88

29,29

30,61

31,33

33,10

34,60

41,08

41,34

43,88

112,54

1,24 P

47,53

49,53

båndet

51,40

51,93

113,34

1,26 P

55,13

55,79

112,48

1,48 P

båndet

66,42

67,34

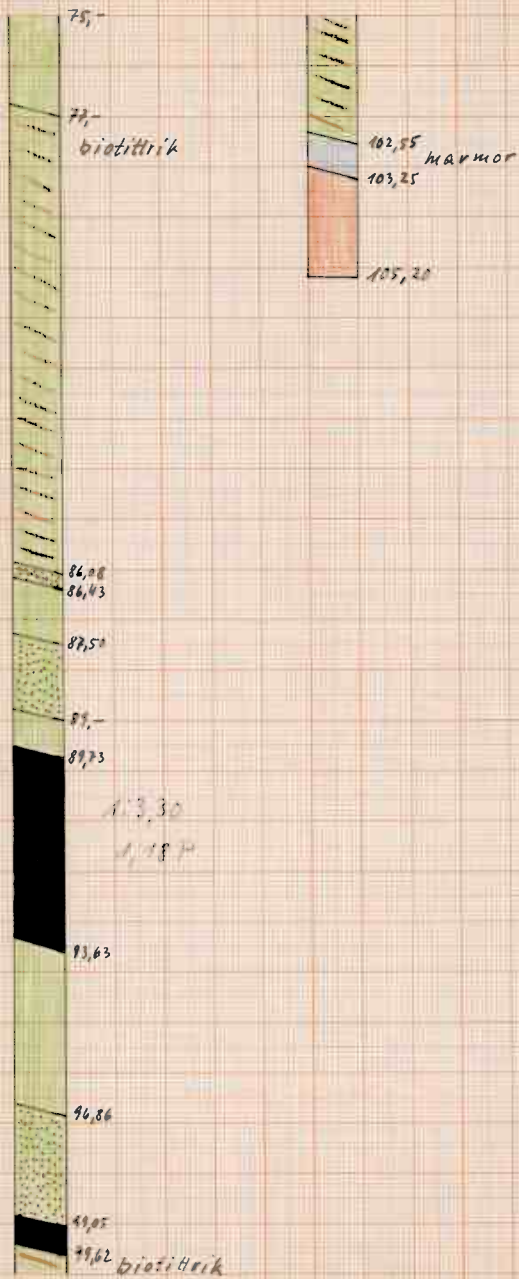
114,12

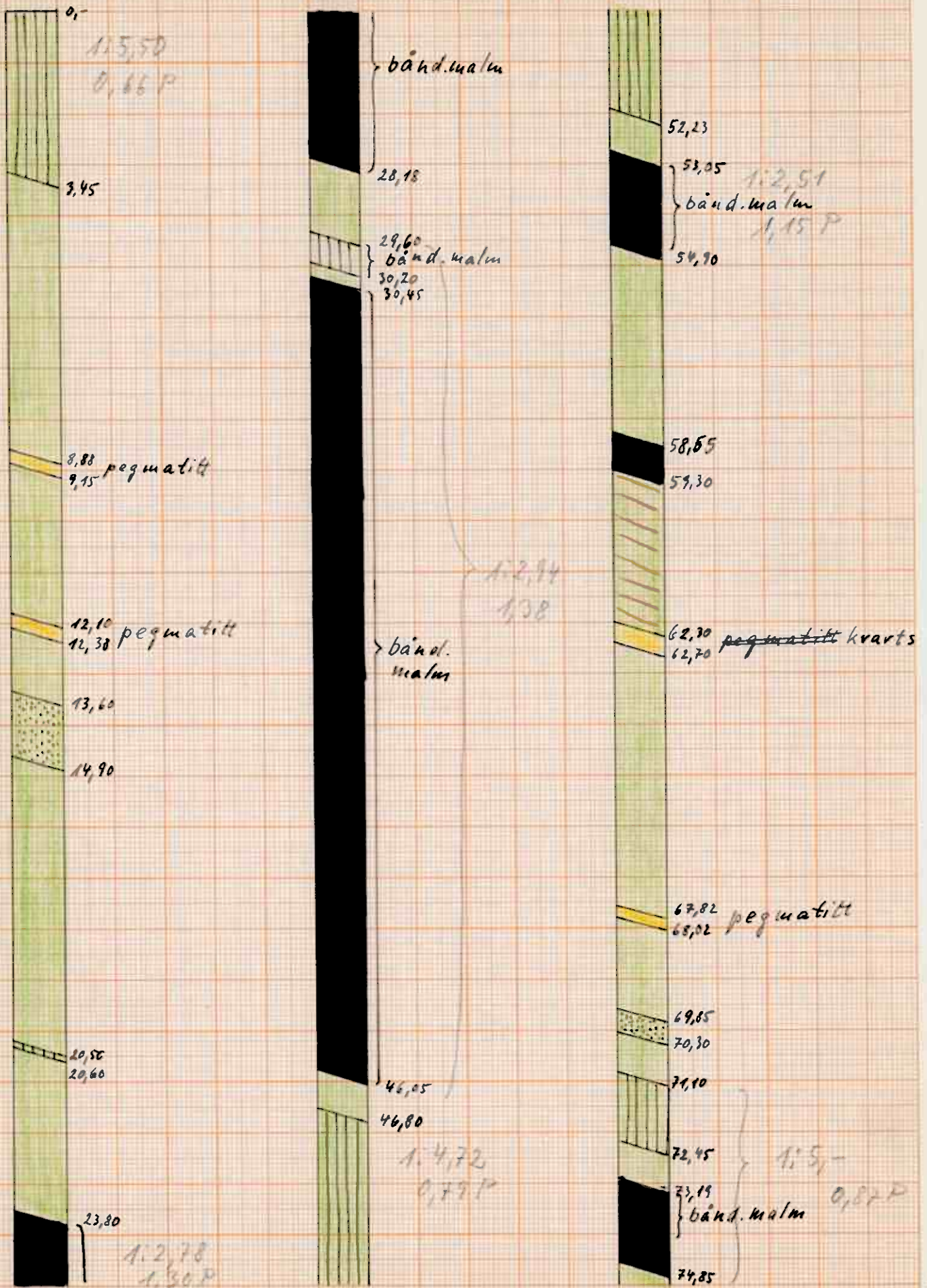
0,97 P

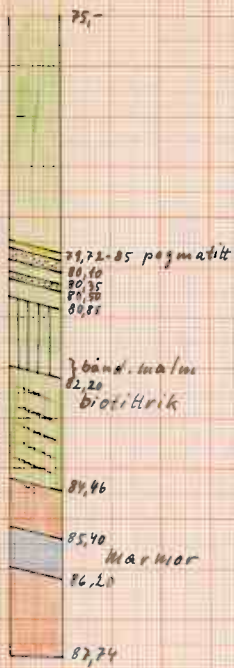
72,70

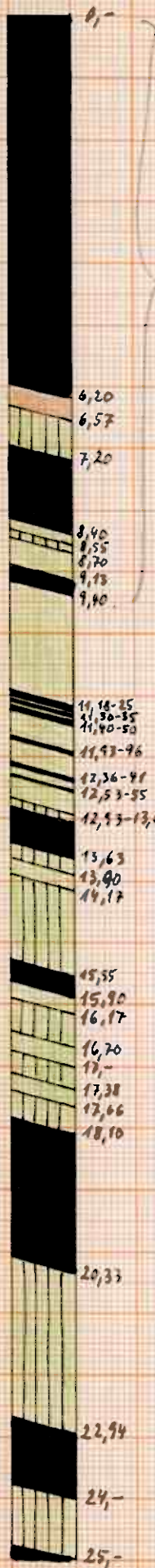
73,53

74,90









1:2,76
1,03 P

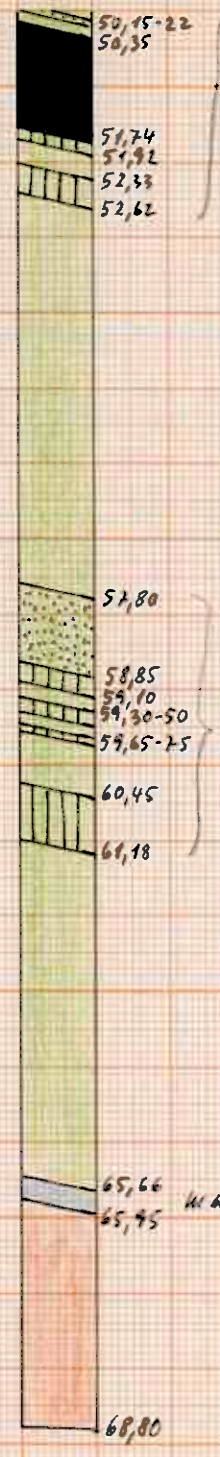
1:5,46
0,54 P

1:3,62
0,58 P



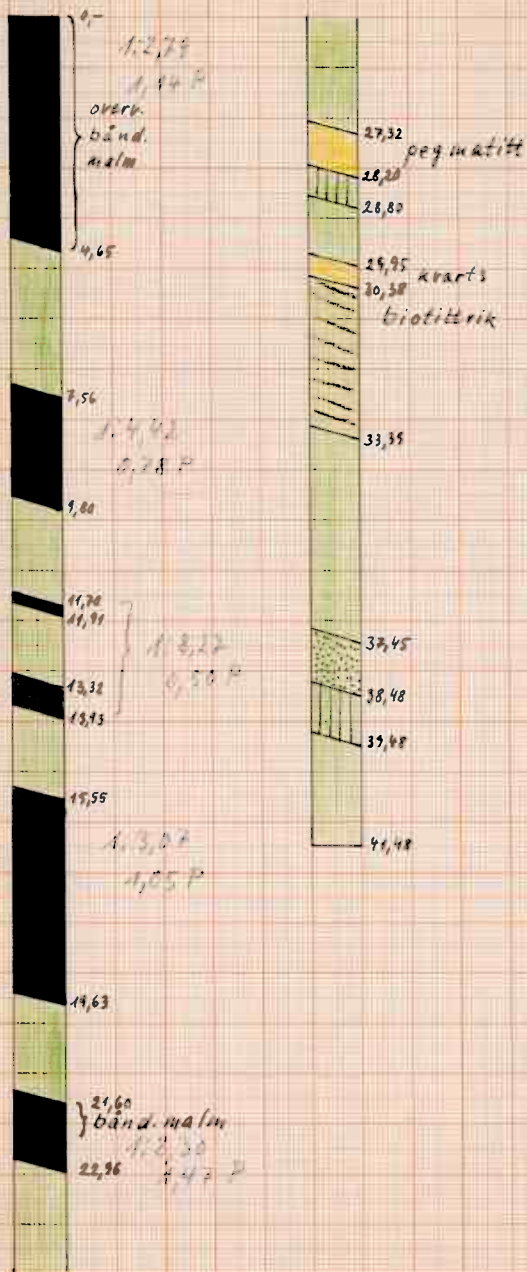
biotittskifer

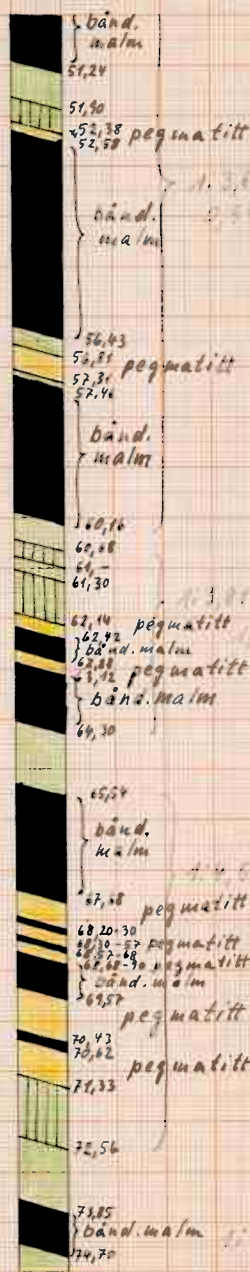
1:4,98
0,66 P

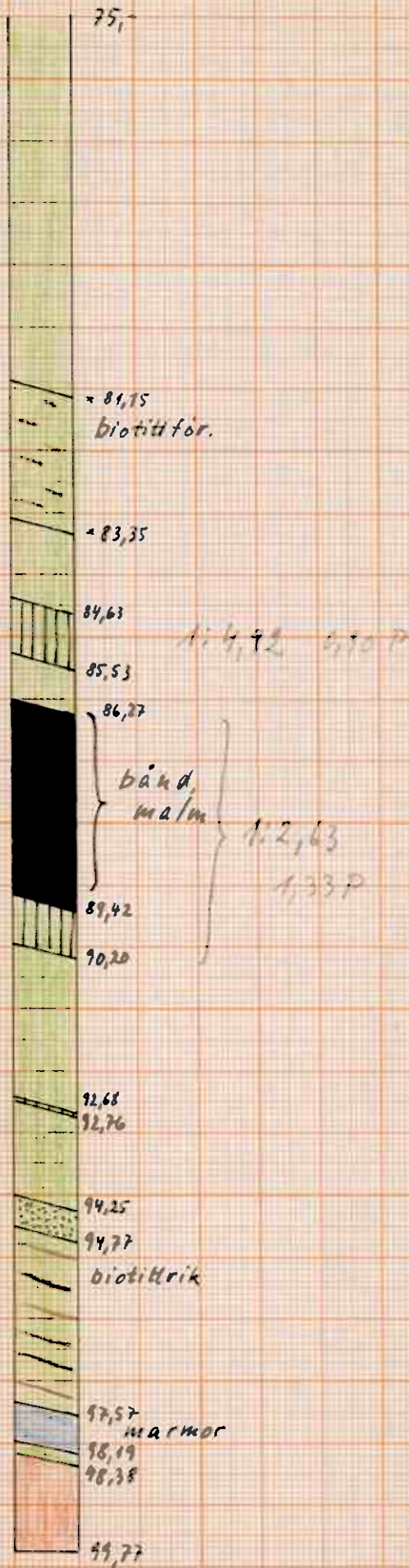


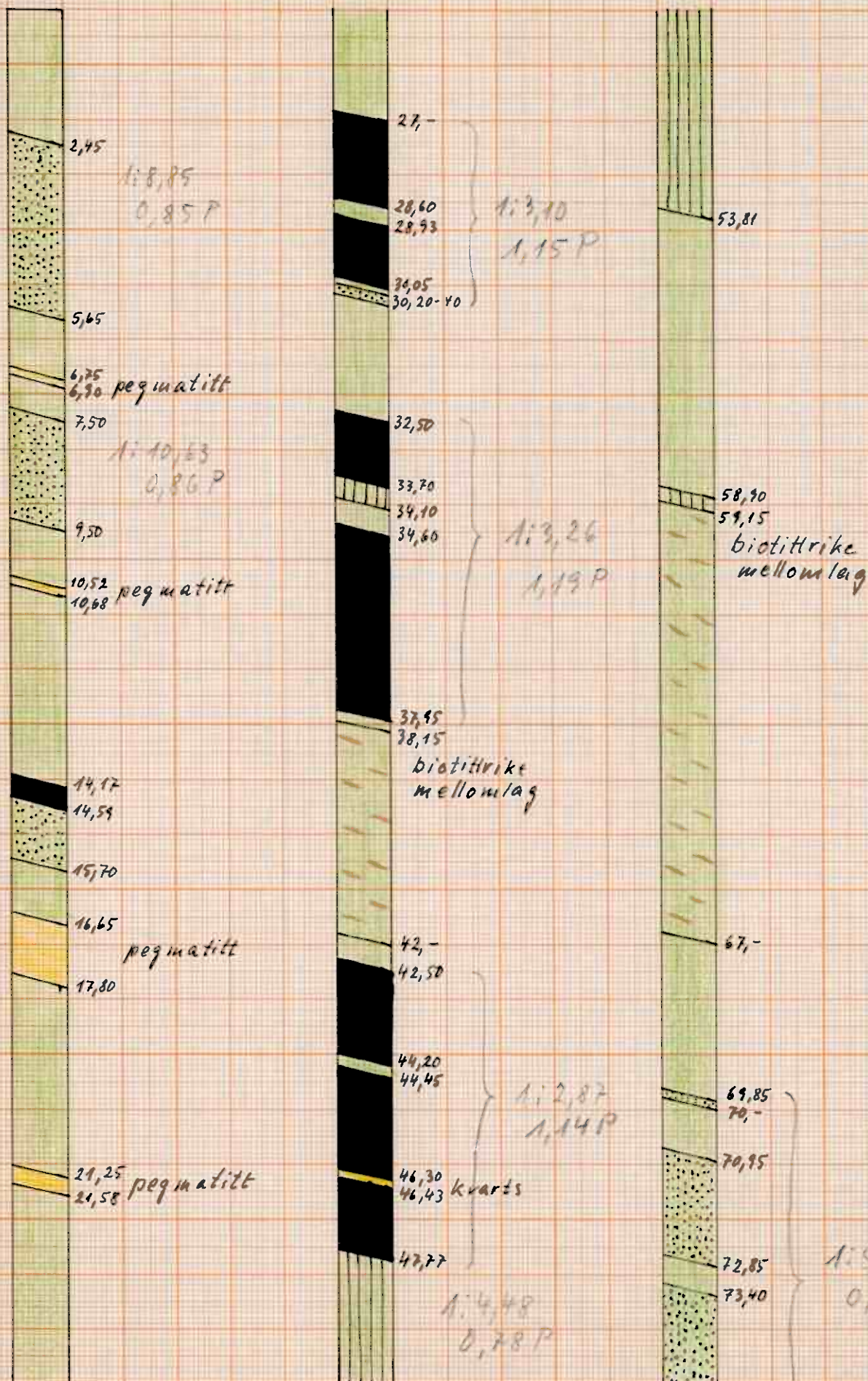
1:11,-
0,49 P

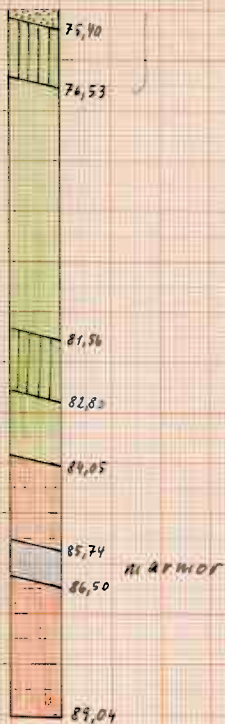
WARMOR

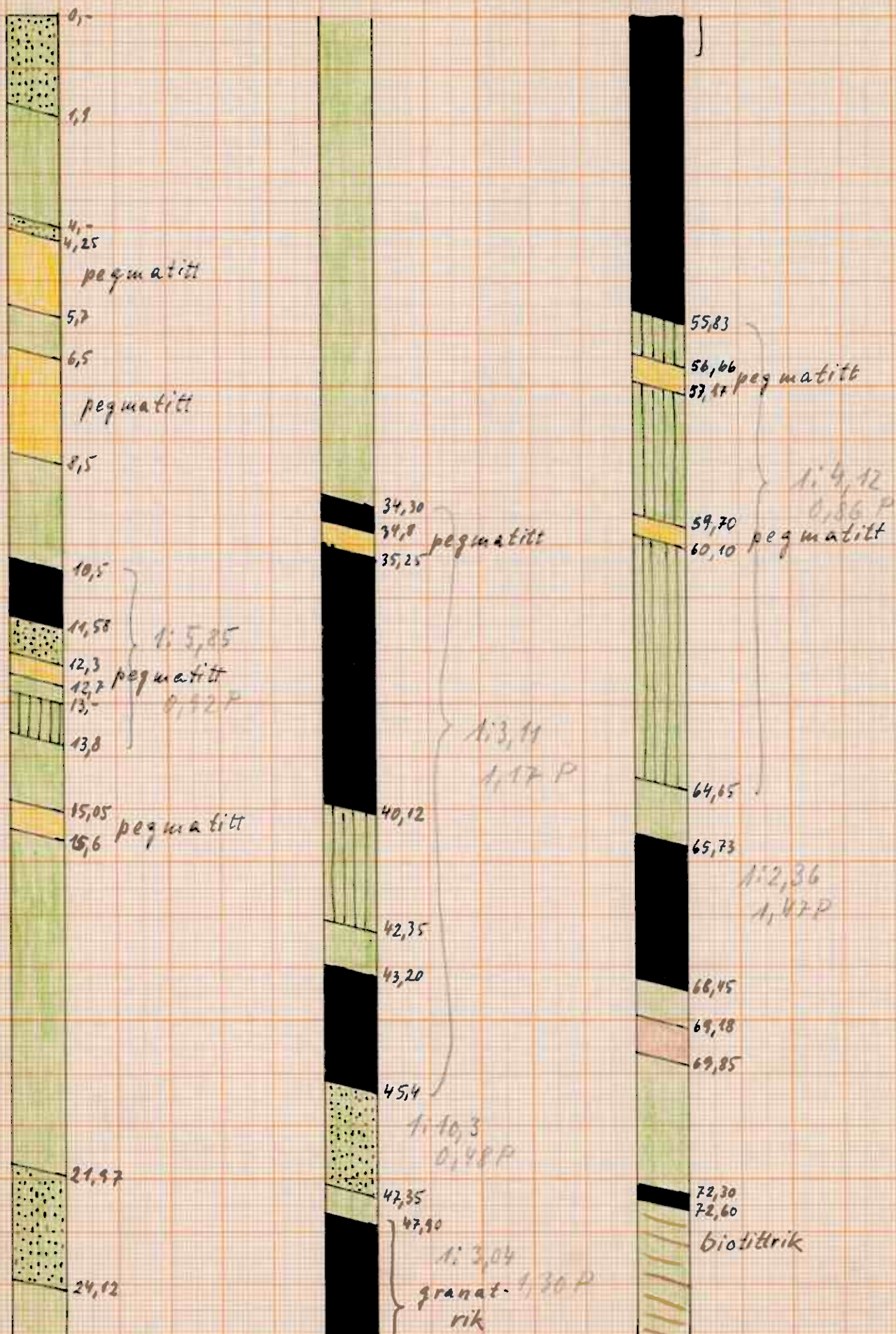


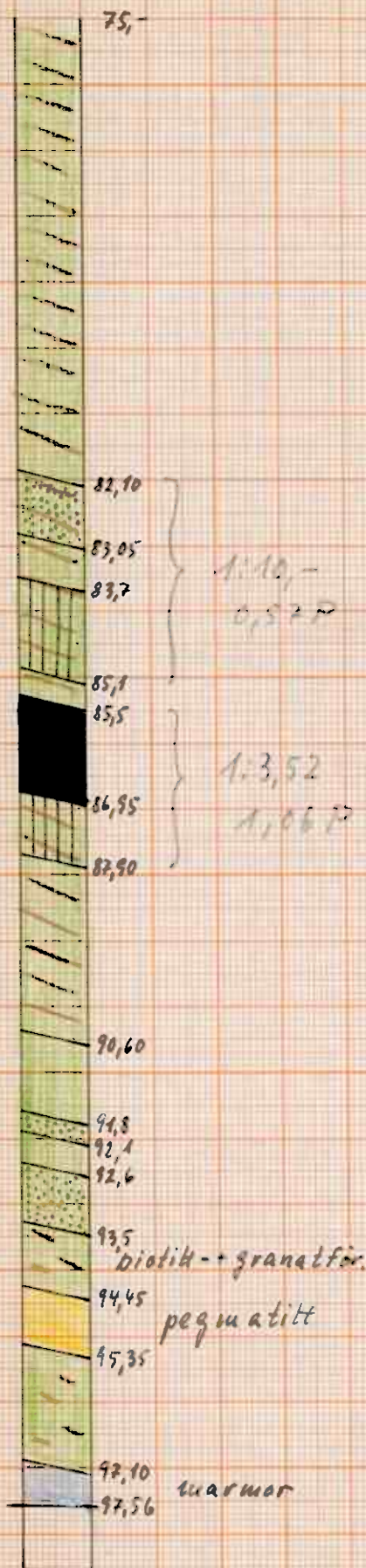


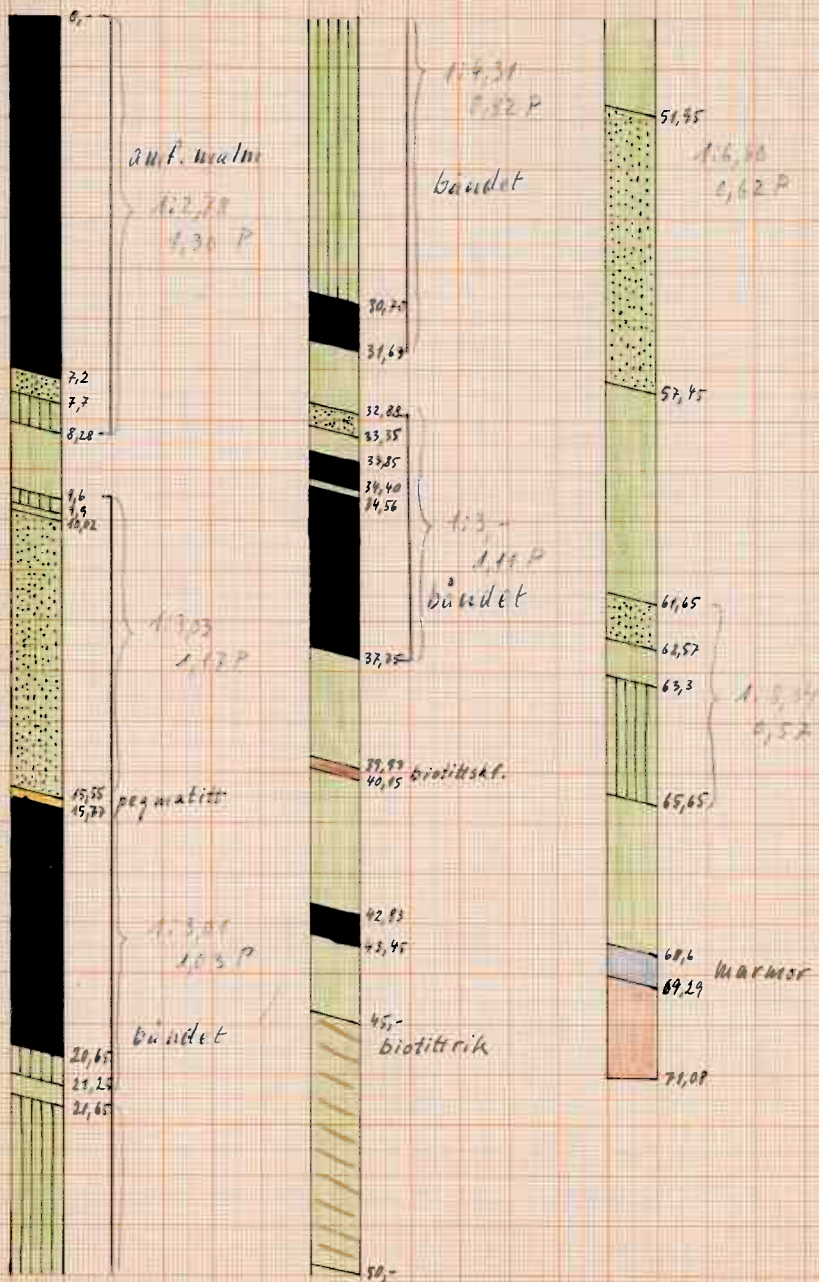


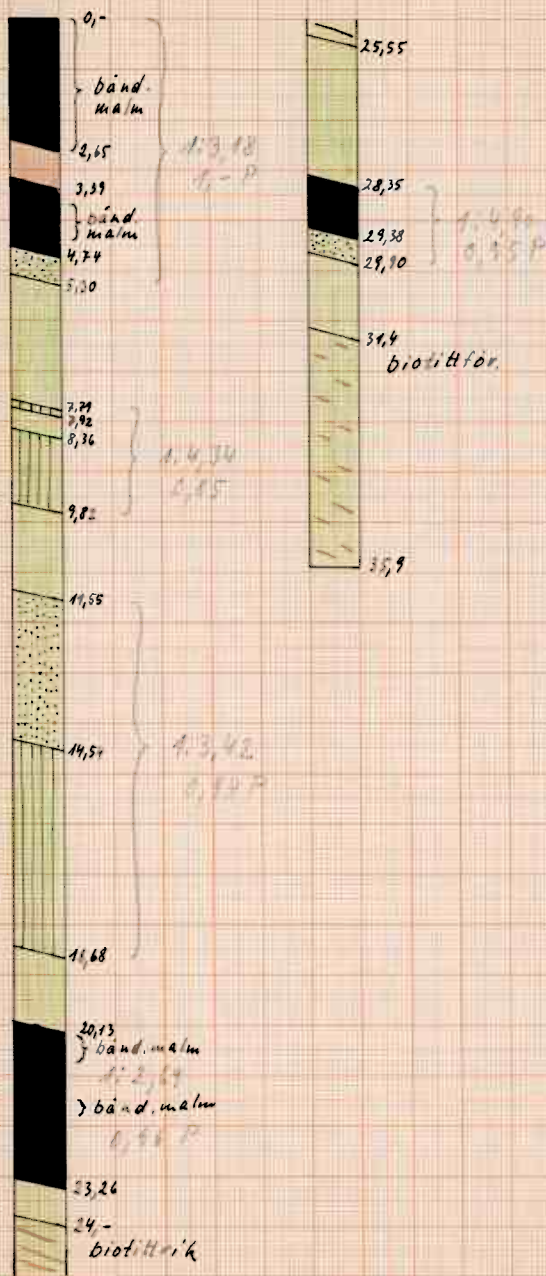










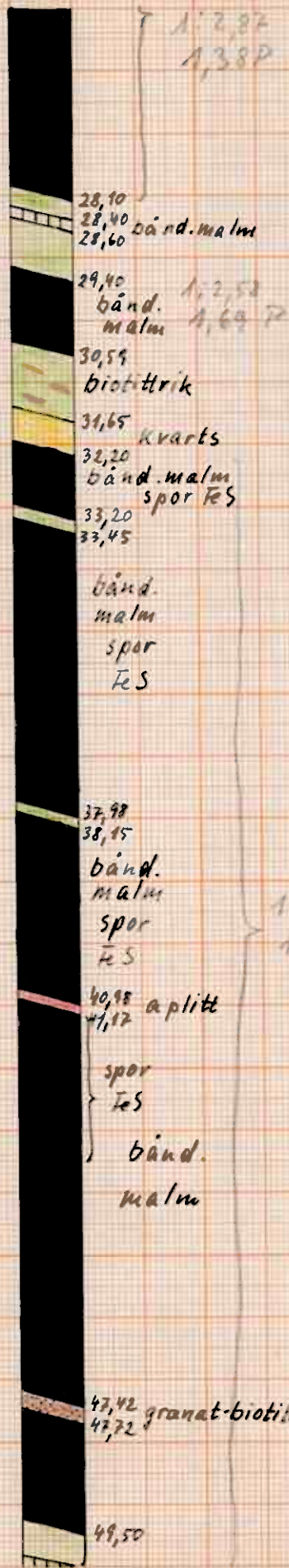






1:15,-
0,65 P

bänd.
malm



1:2,87
1,38 P

1:2,53
1,69 P

1:2,97
1,37 P

granat-biotitfskf.



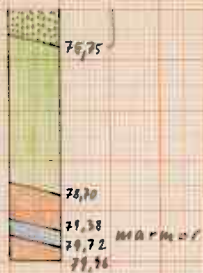
pegmatitt

1:4,90
0,93 P

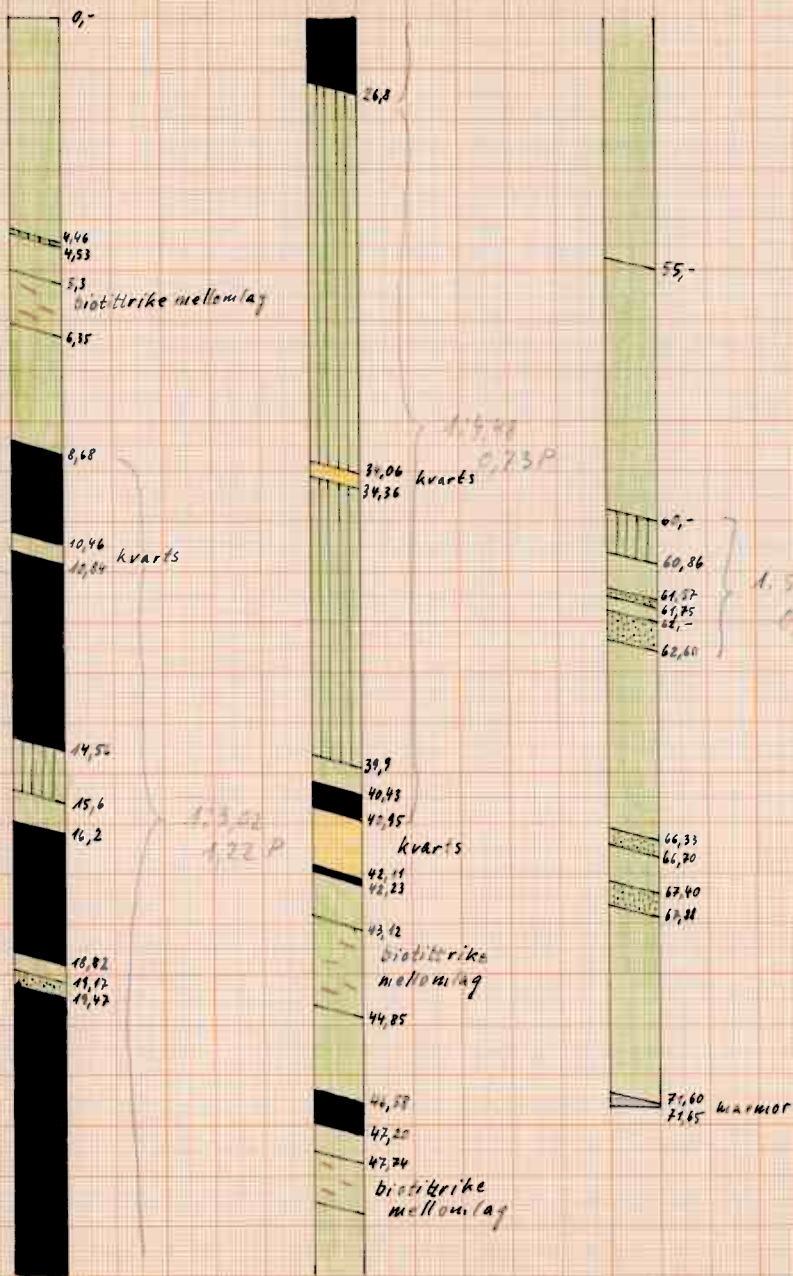
1:2,30
1,55 P

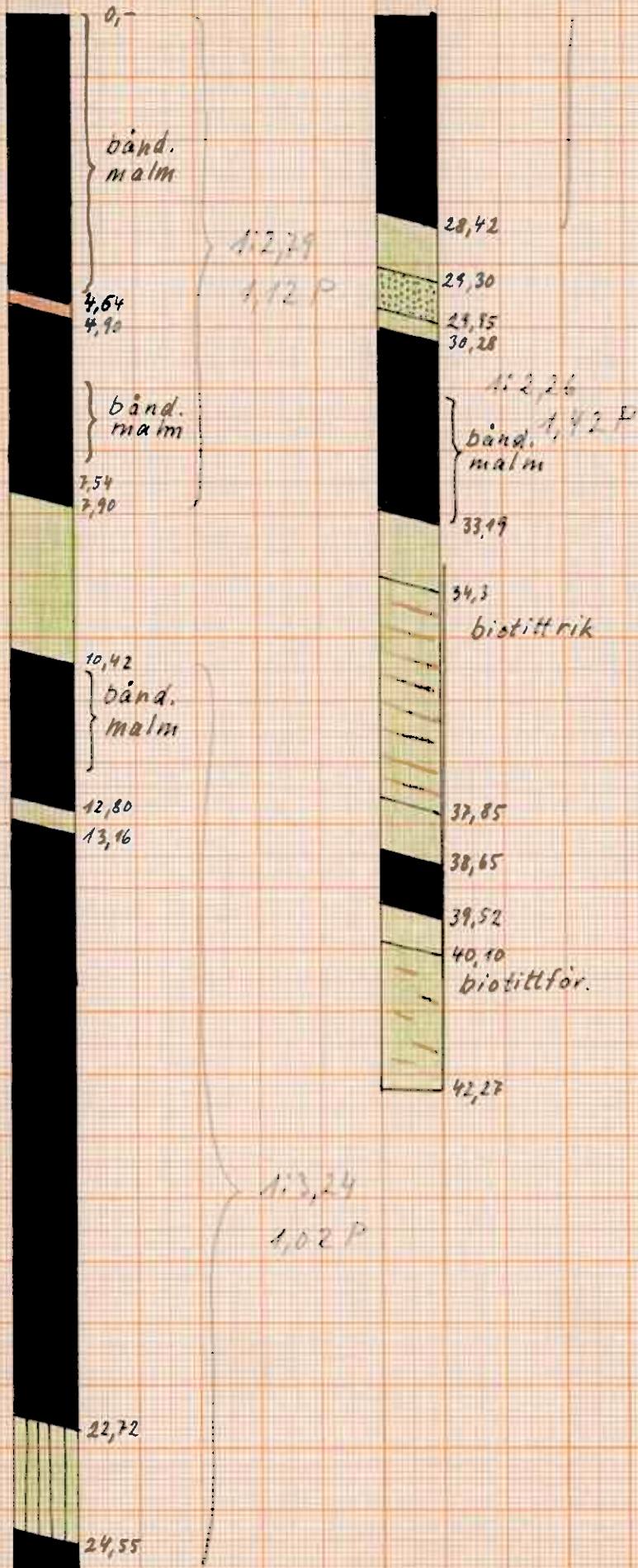
pegmatitt

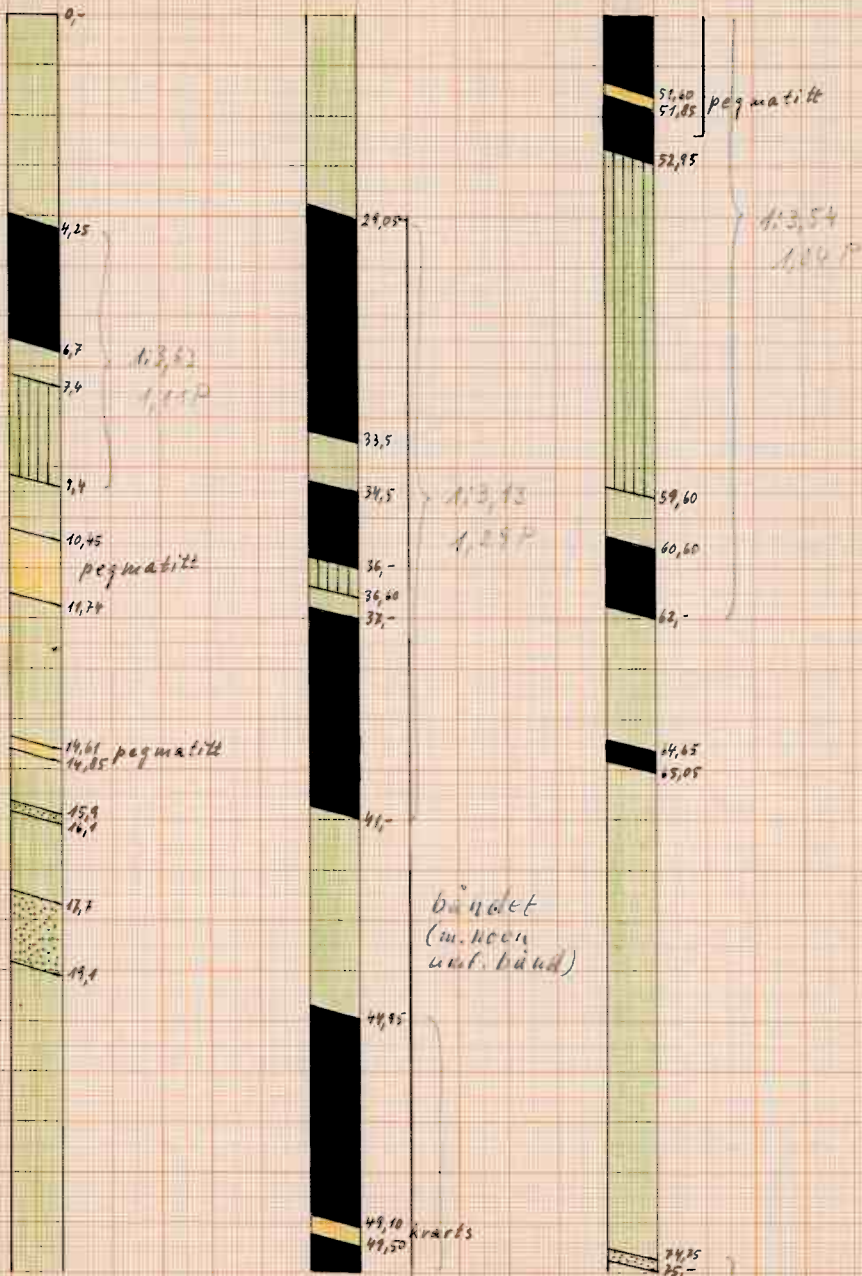
1:7,70
0,75 P

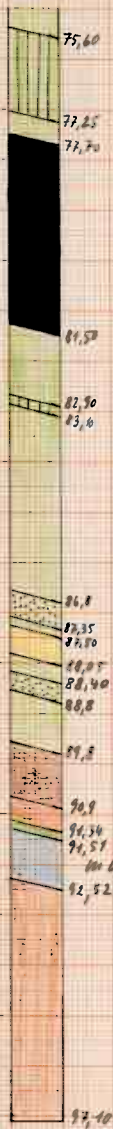


gesamt 312,5 - 59,50 m + 16,5 m = 137,50

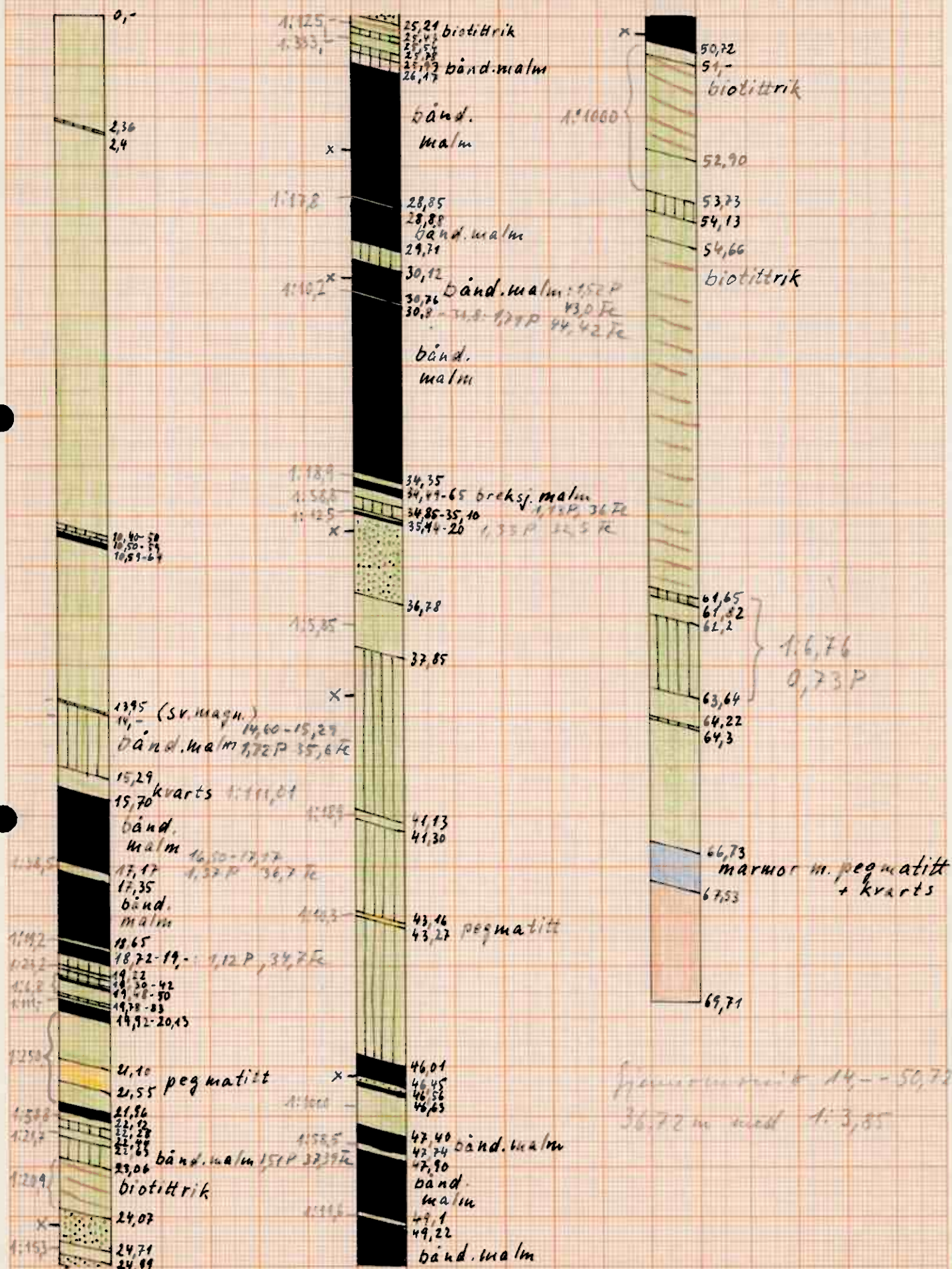






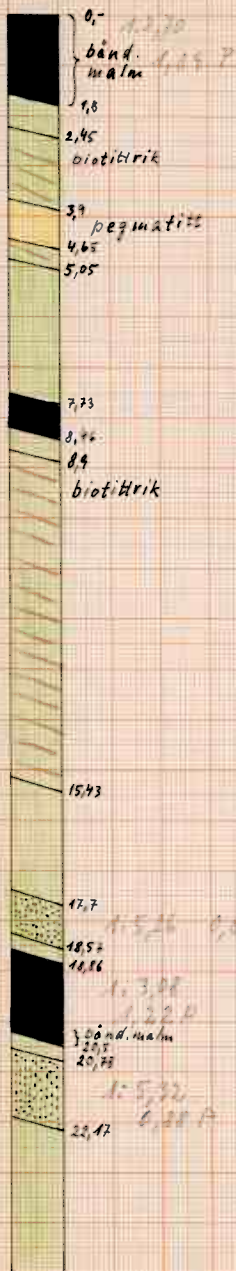


1.2.50
1.2.19



x) Tyngslip.

16.12.60. E.

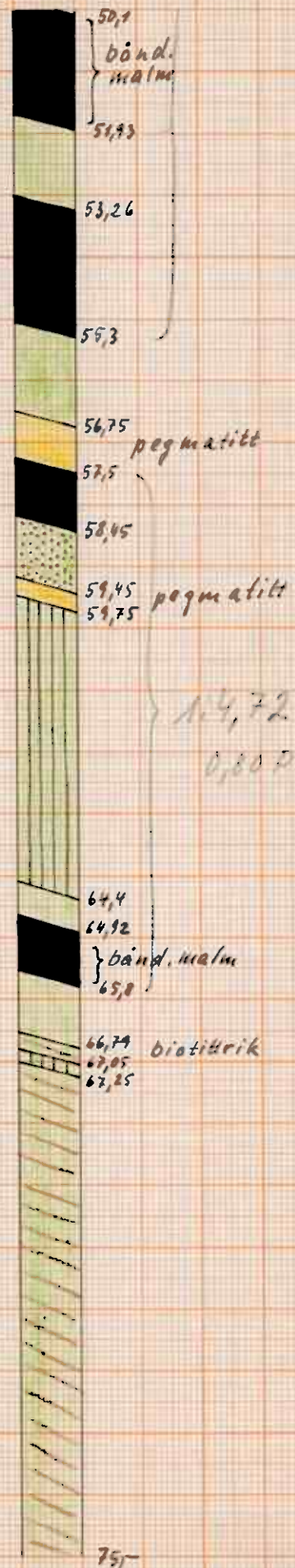




1:3,74
1:26 P

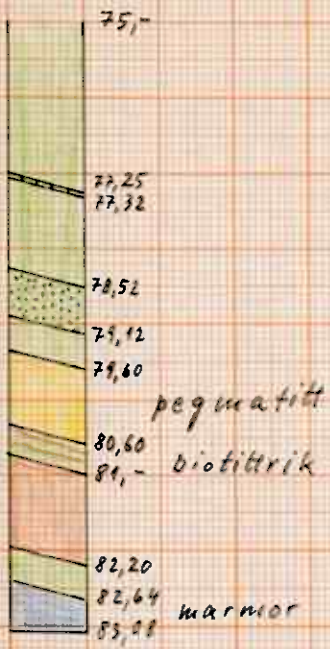


1:3,74
1:04 P

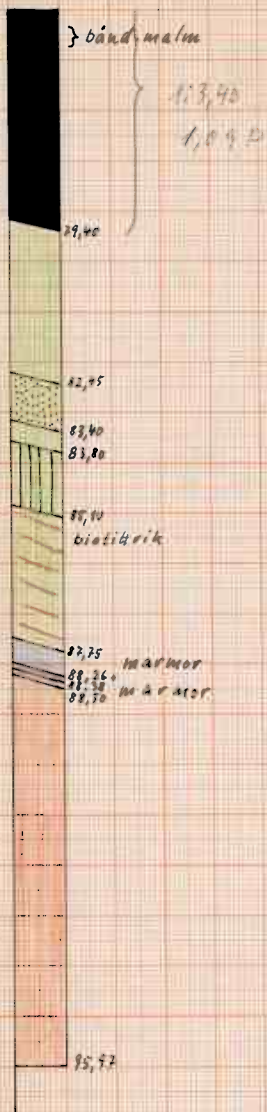














0-
1.2, 1.5
bänd.
malm

2,65

3,64

4,476
1,74 P

16,28

16,60

bänd.
malm 1,2, 70

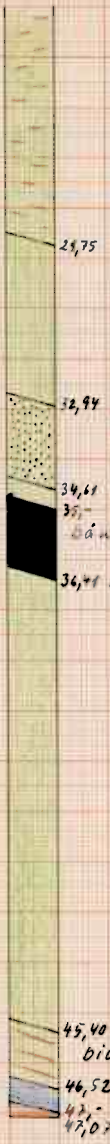
18,50

19,05

biotittfär.

21,03

21,37



29,75

32,94

34,61

35-

bänd. malm

36,41

1,3, 55
1,38 P

45,40

biotittfär.

46,52

marmor

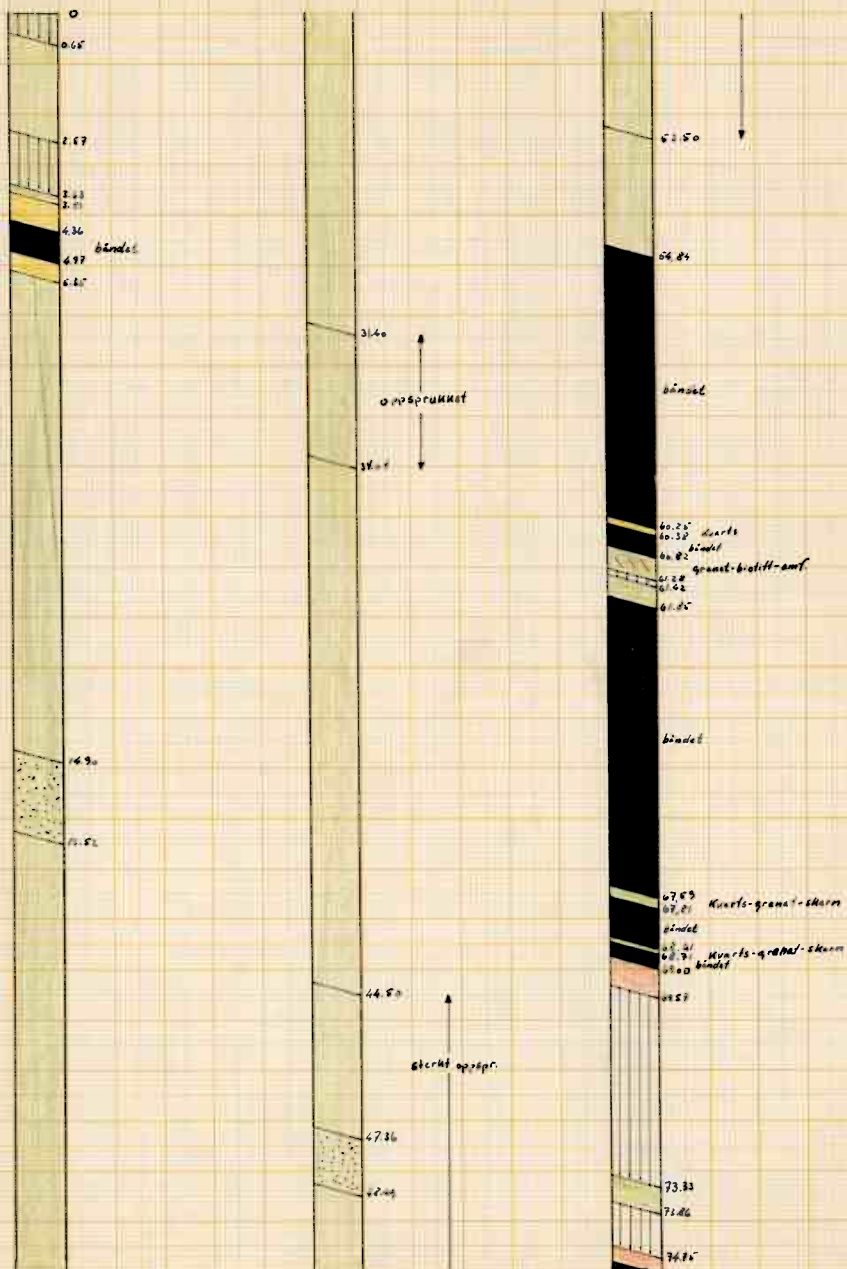
47,07



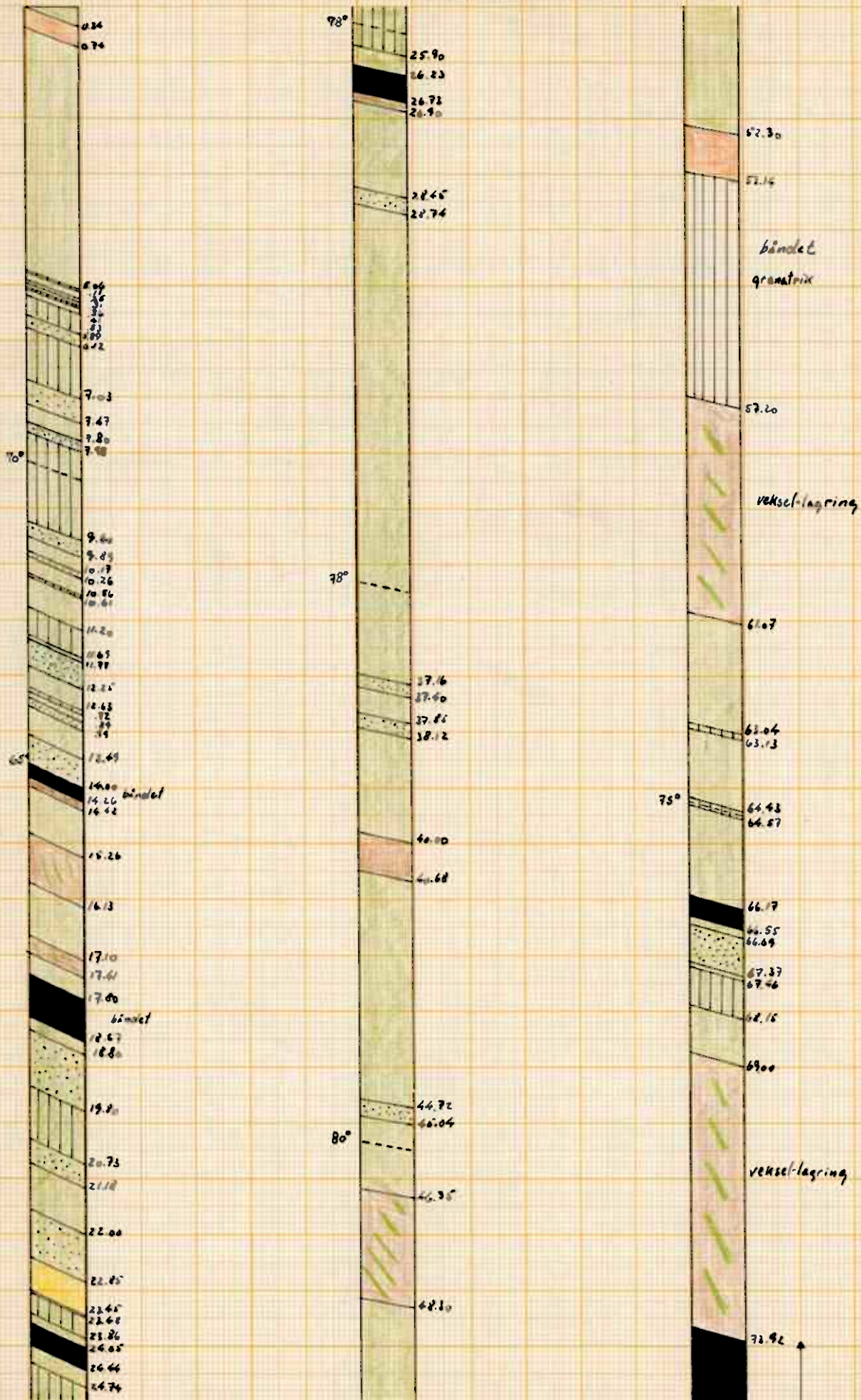


Kuliberget. Borhull AD

54,84 - 76,45	båndet malm, sterkt magnetisk
55,17-55,20	pegmatitt
55,76-55,77	kvarts-granat-skarn
56,48-56,58	kvarts (uren)
58,98-59,02	kvarts
59,03-59,07	m/tynne bånd av kvarts
59,12-59,13	kvarts
59,23-59,27	m/tynne bånd av kvarts
60,10-60,14	kvarts
60,25-60,38	kvarts
60,66-60,67	kvarts
60,81-60,88	granat-biotitt-amfibolitt
60,92-61,19	granat-biotitt-amfibolitt
61,19-61,22	kvarts
61,22-61,27	granat-biotitt-amfibolitt
61,40-61,80	amfibolitt
65,30-65,35	kvarts
66,31-66,35	biotittskifer
66,51-66,55	granat-biotitt-amfibolitt
66,75-66,79	granat-biotitt-amfibolitt
67,60-67,84	kvarts-granat-skarn
68,60-68,74	kvarts-granat-skarn
69,05-69,63	granat-glimmerskifer
69,63-69,78	magnetisk
69,78-69,83	glimmerskifer
69,83-72,81	magnetisk
72,81-72,93	glimmerskifer, delvis magnetisk
72,93-73,18	magnetisk
73,18-73,20	kvarts
73,20-73,27	amfibolitt
73,27-73,32	magnetisk
73,32-73,85	amfibolitt
73,85-74,69	magnetisk
74,69-75,09	granat-glimmerskifer







79°
granatrik

77.13

bändet

82.70

83.50

83.85

84.15

bändet

85.06

85.25

85.34

85.75

bändet

87.07

87.44

87.60

hbl-09
granat-rik

87.04

bändet

90.15

90.63

90.78

91.04

91.26

91.43

91.74

bändet

92.65

92.65

bändet

93.20

93.45

94.10

94.47

94.78

95.50

96.63

92.07

92.56

bändet

93.00

10m 705

92.66

100.12

101.20

102.06

102.14

102.36

103.62

104.23

105.85

106.20

107.37

110.47

111.72

112.32

114.28

115.65

116.13

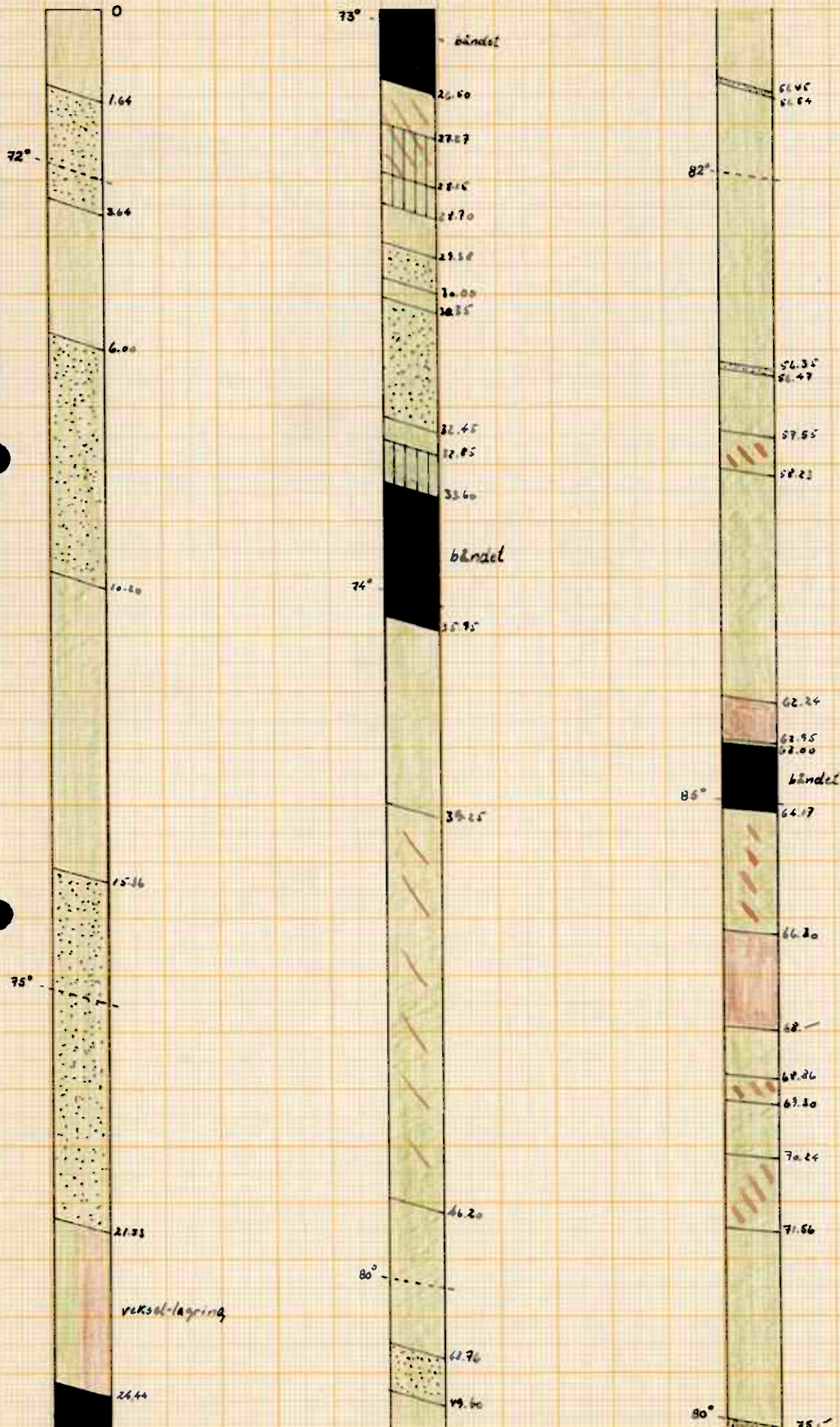
117.47

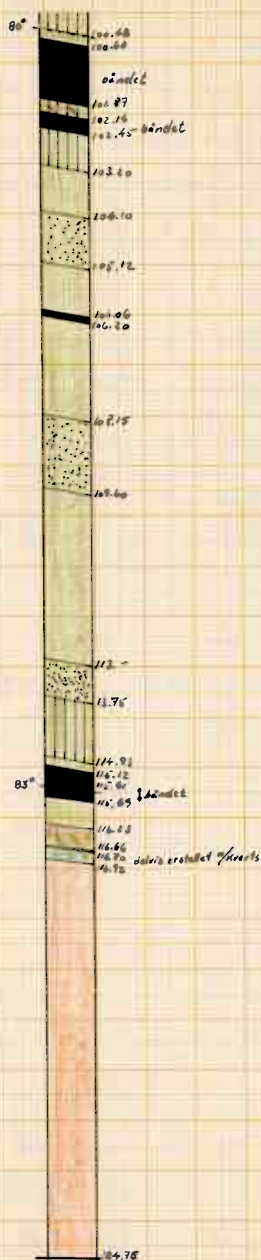
118.60

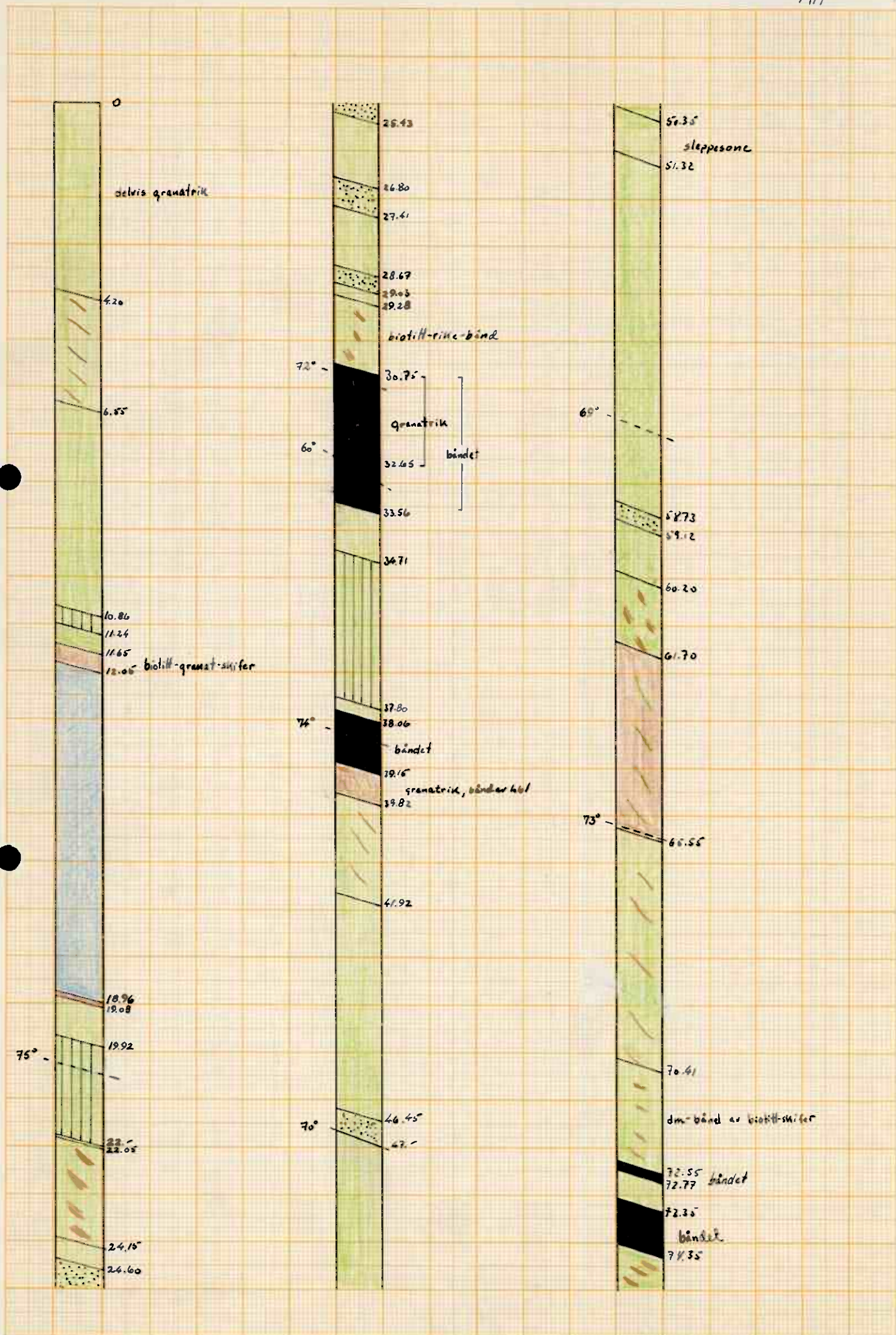
80°

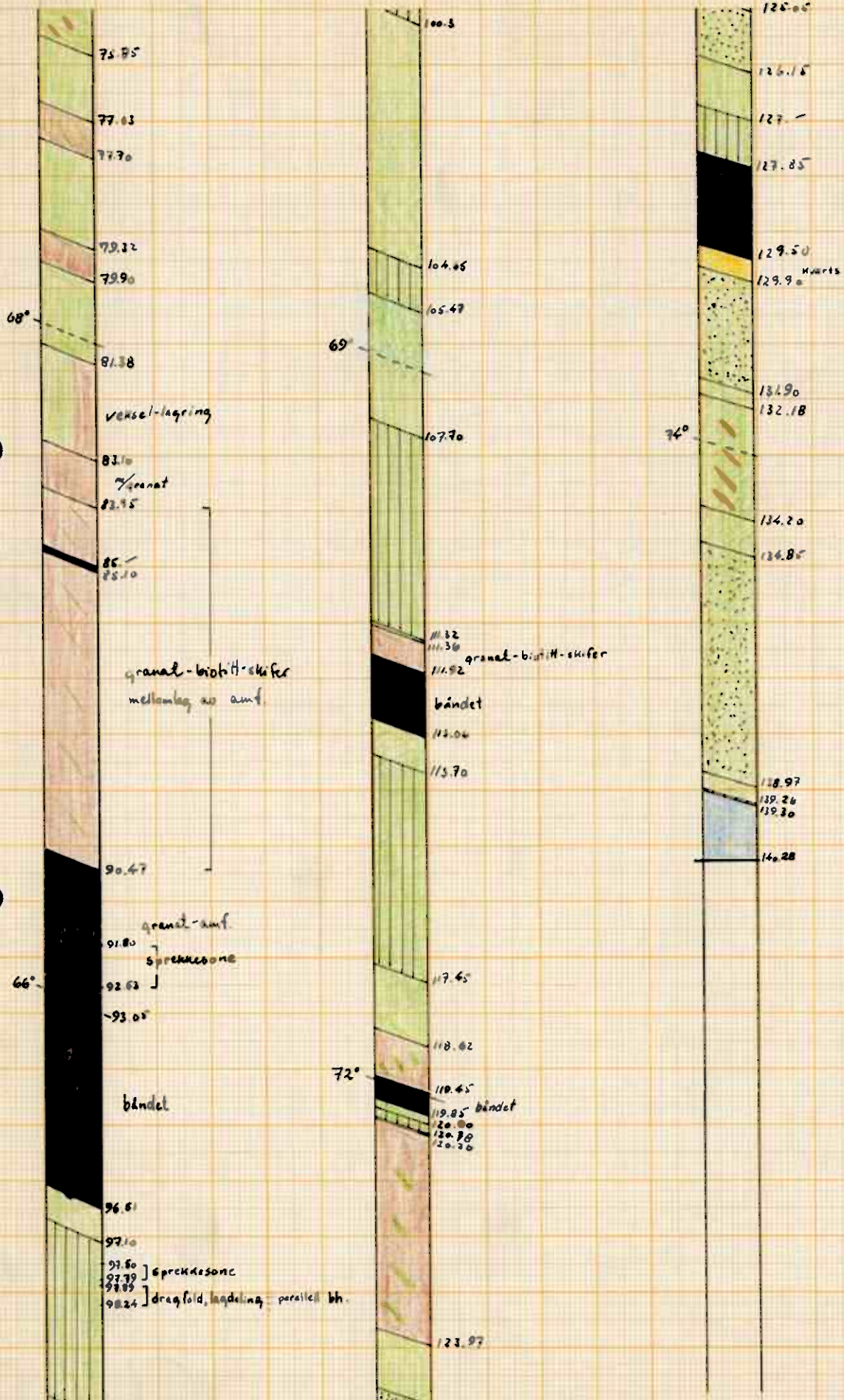
85°

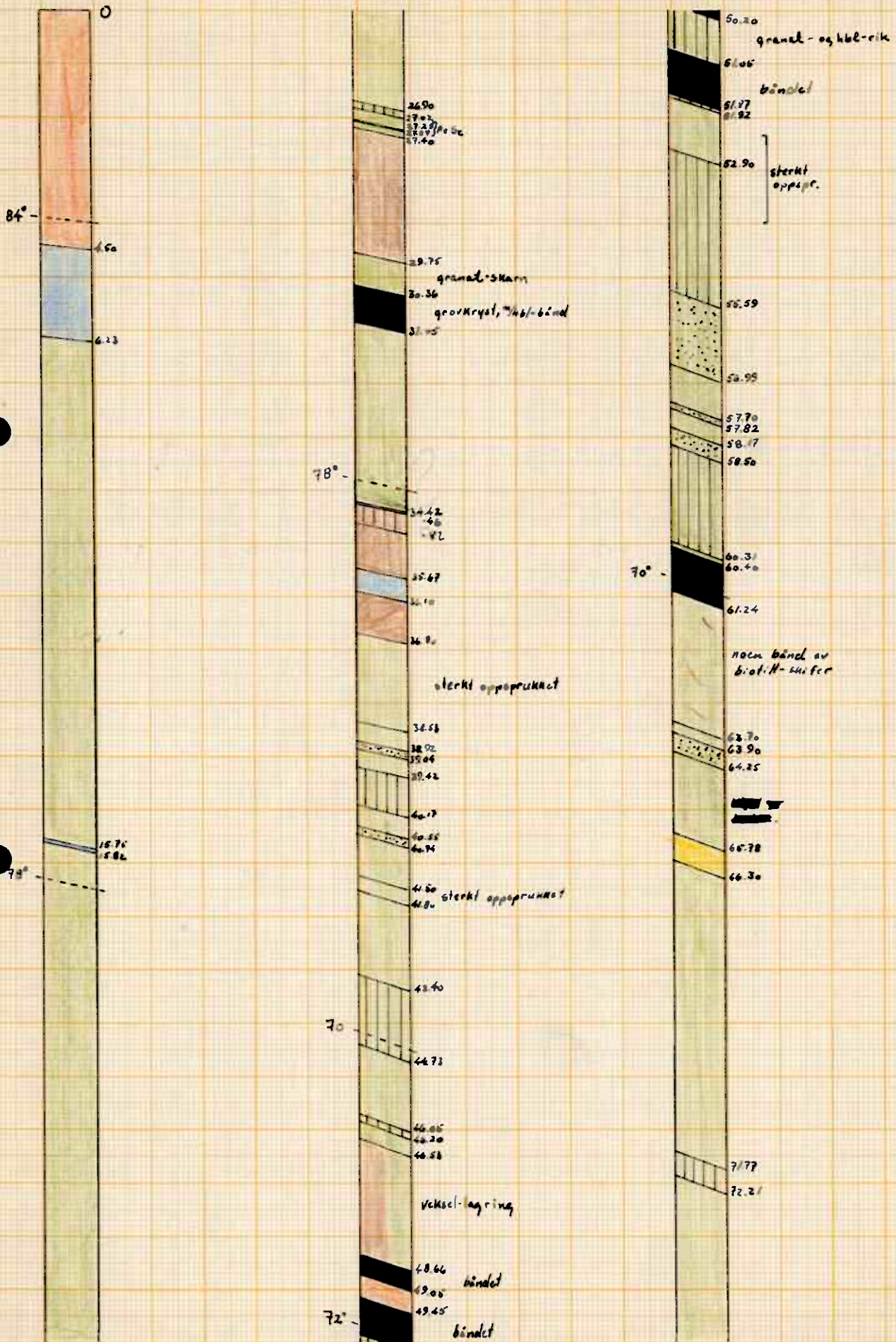
8.1. 8m 705

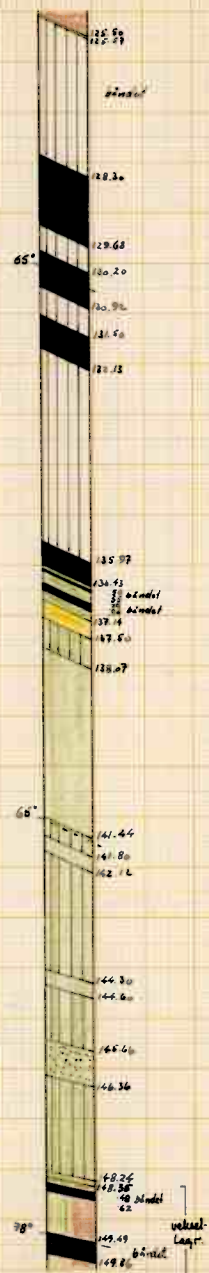
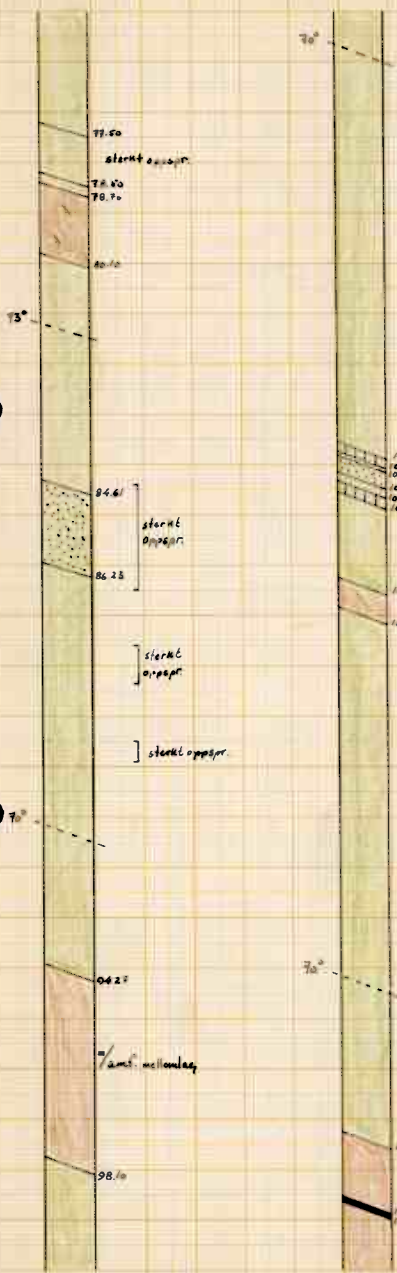


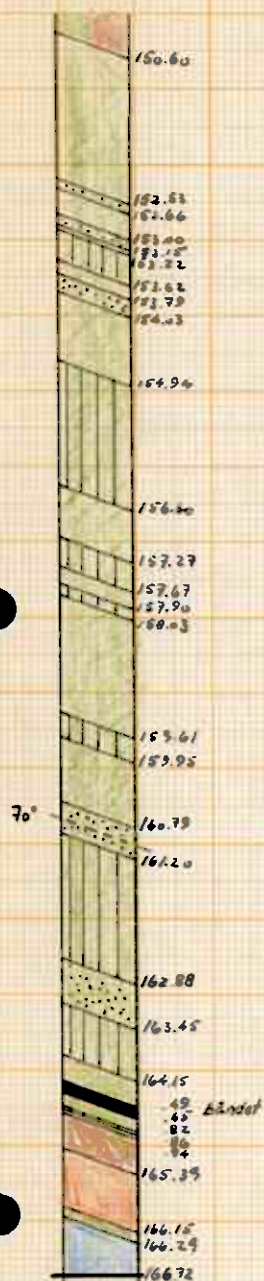


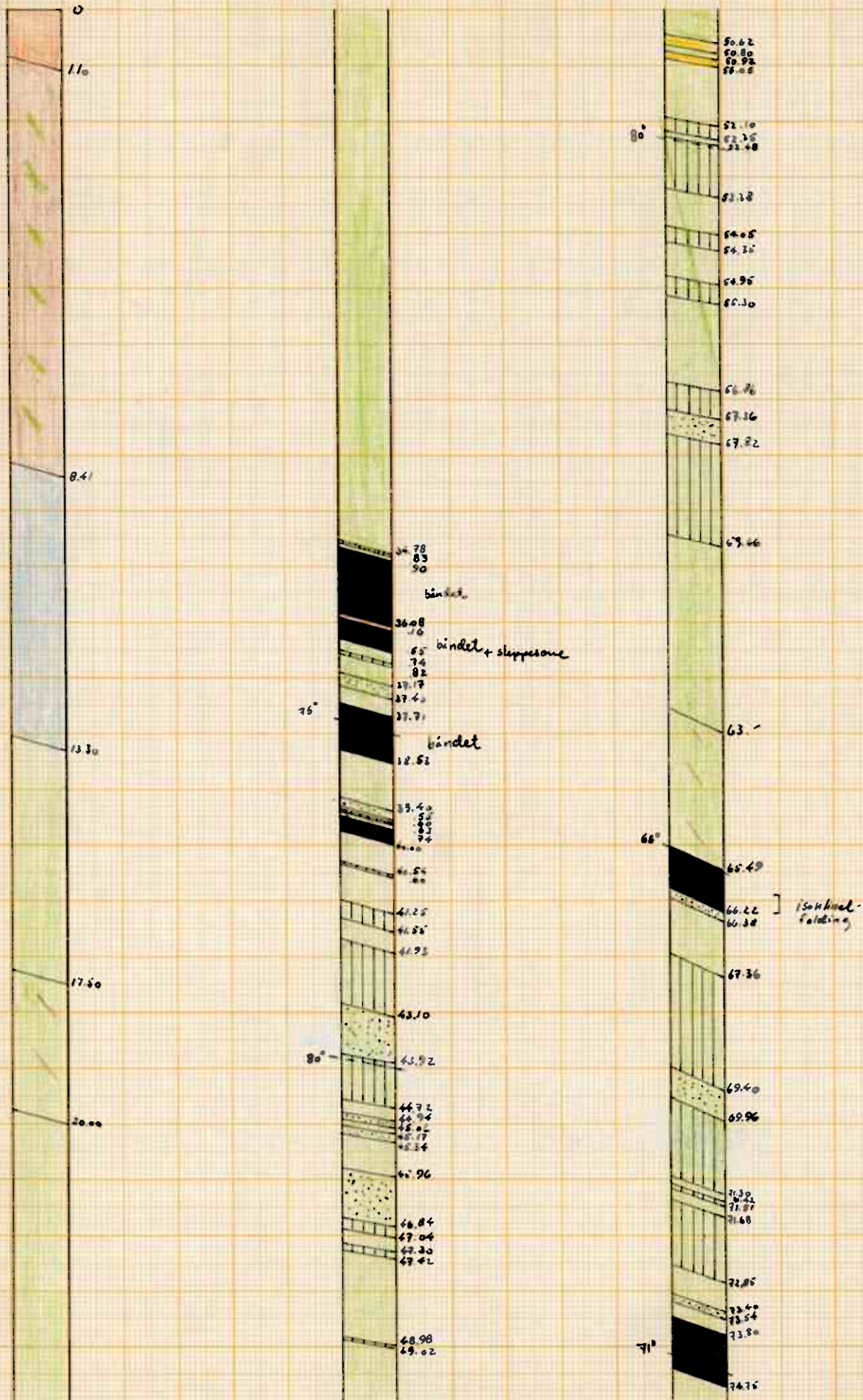


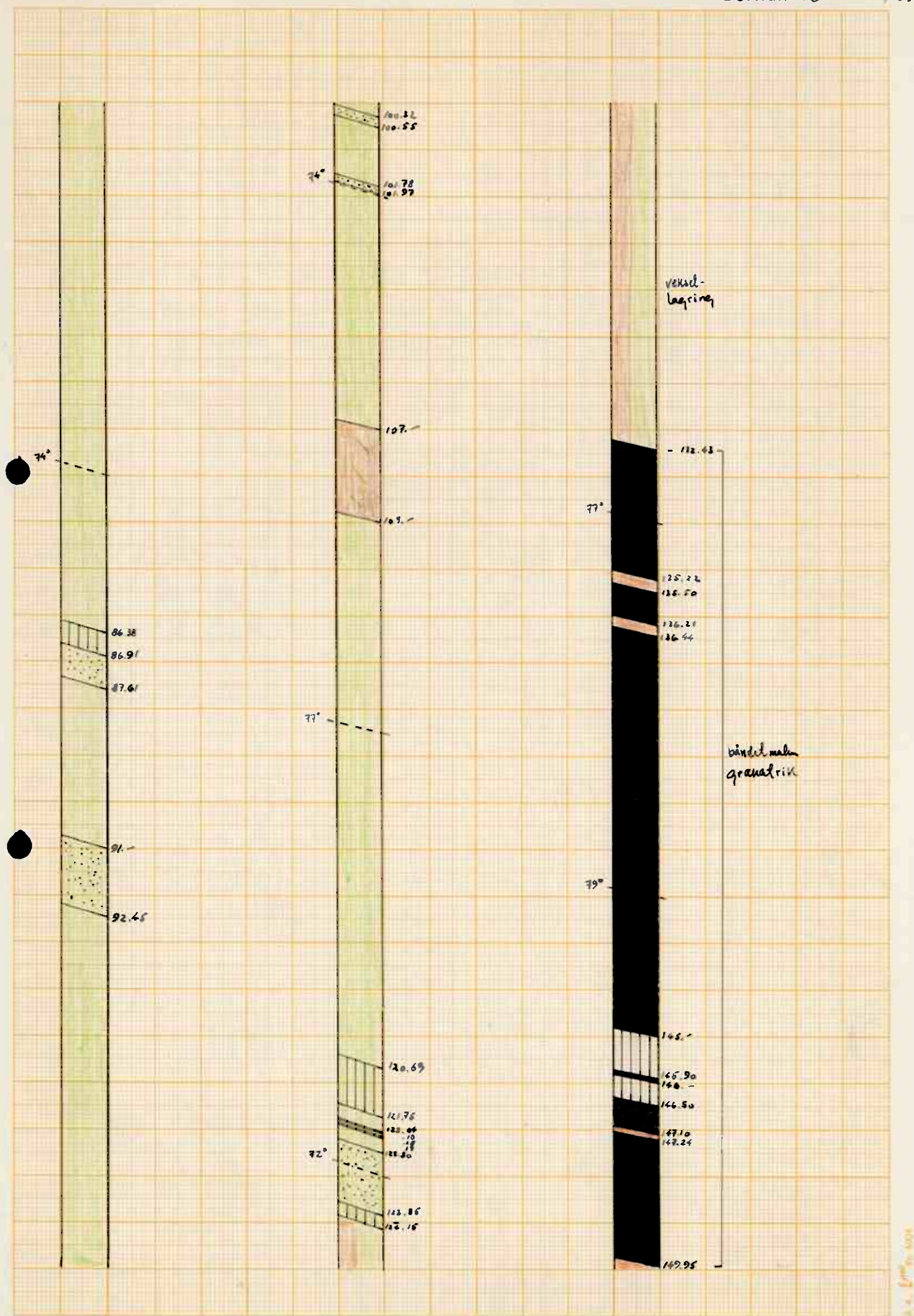


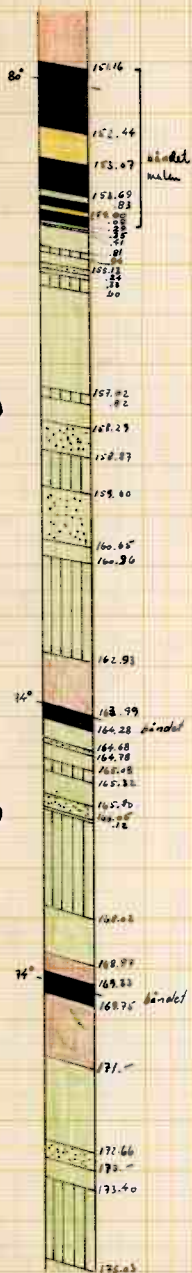


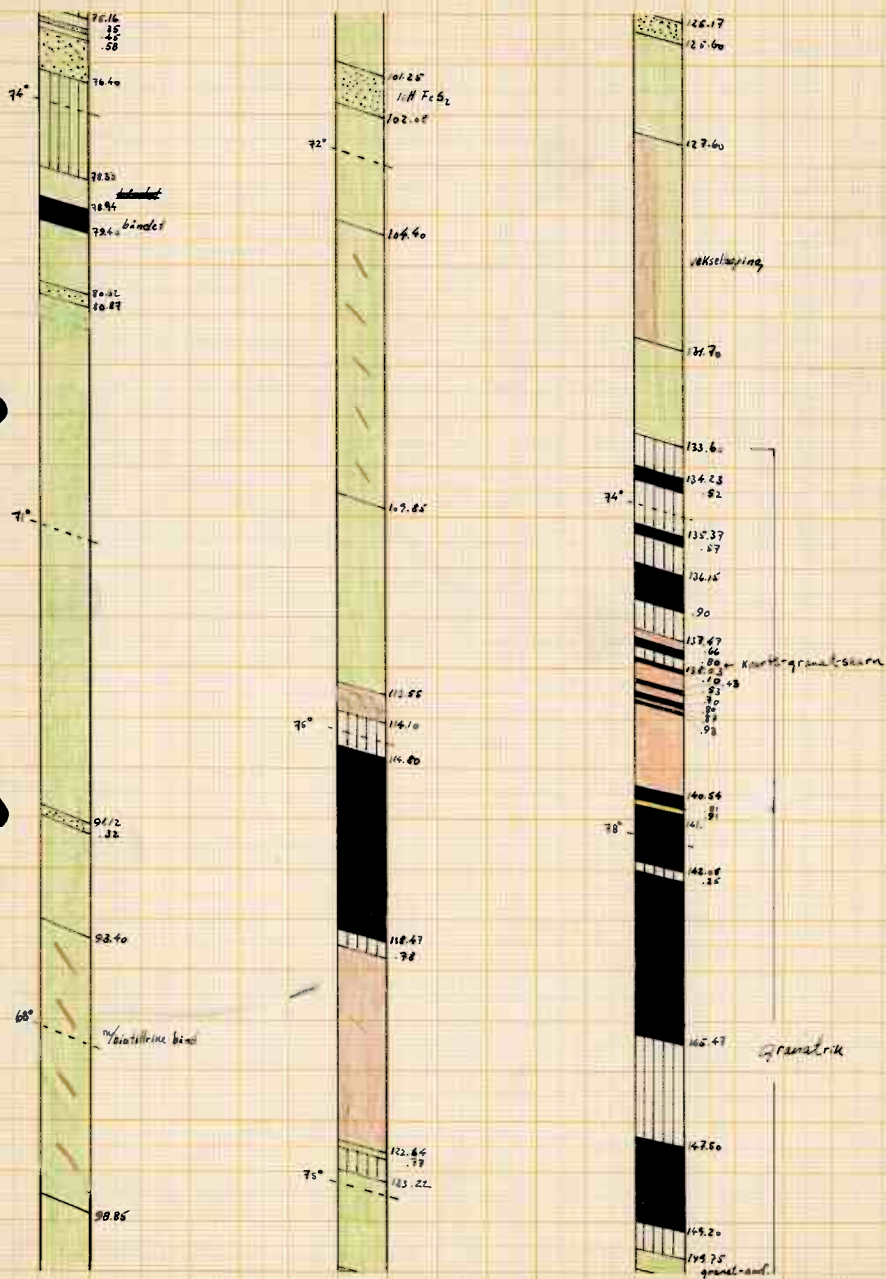


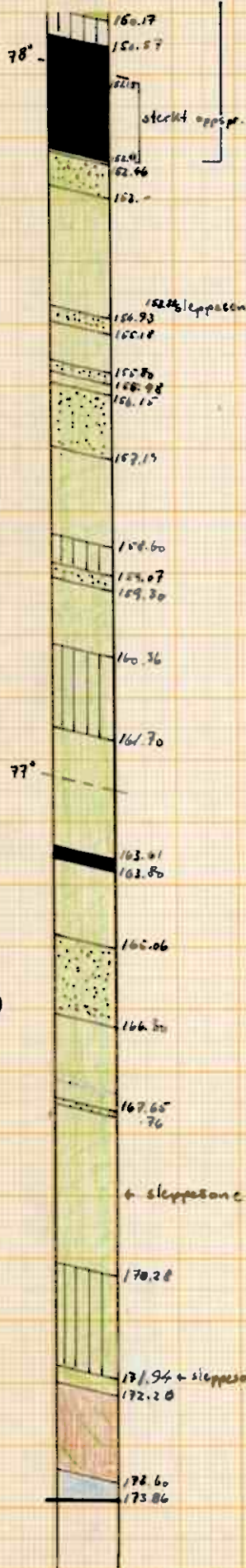


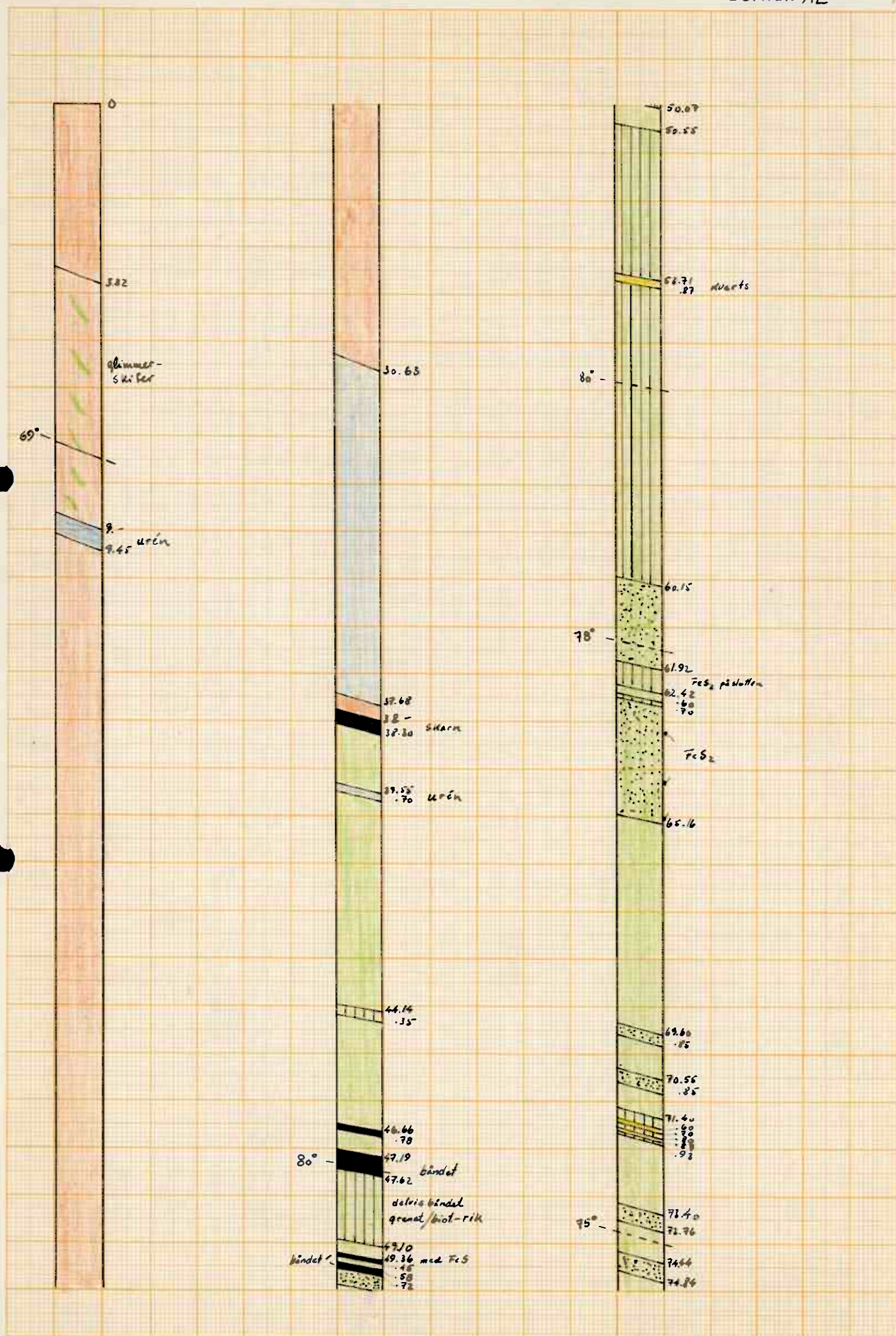


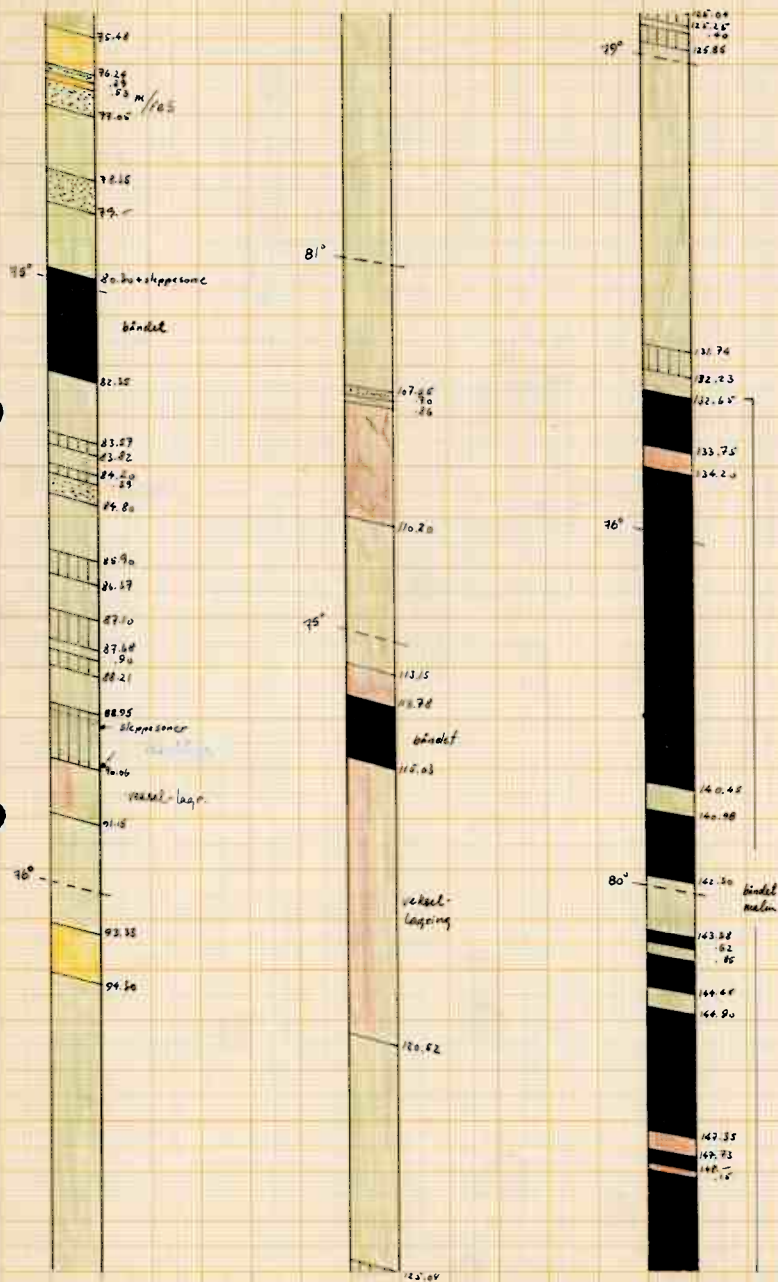


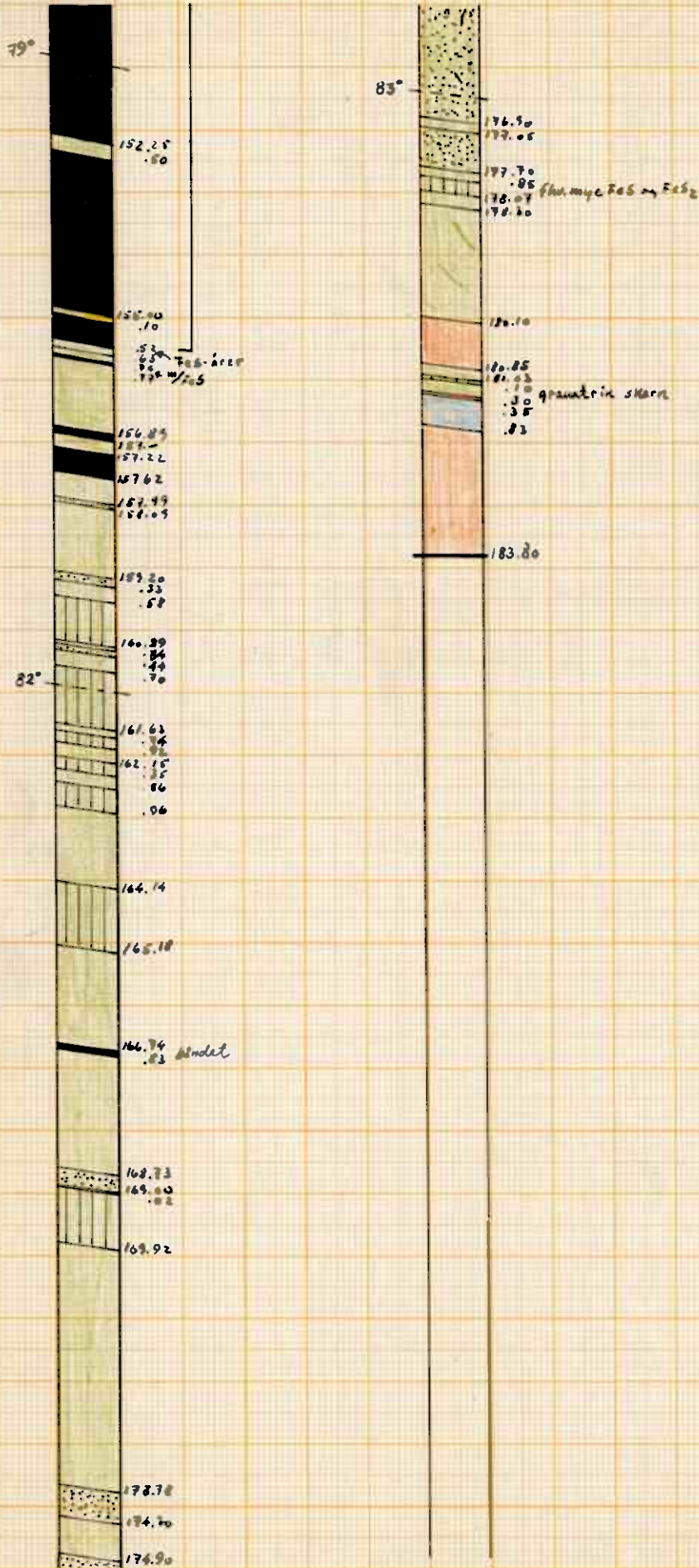


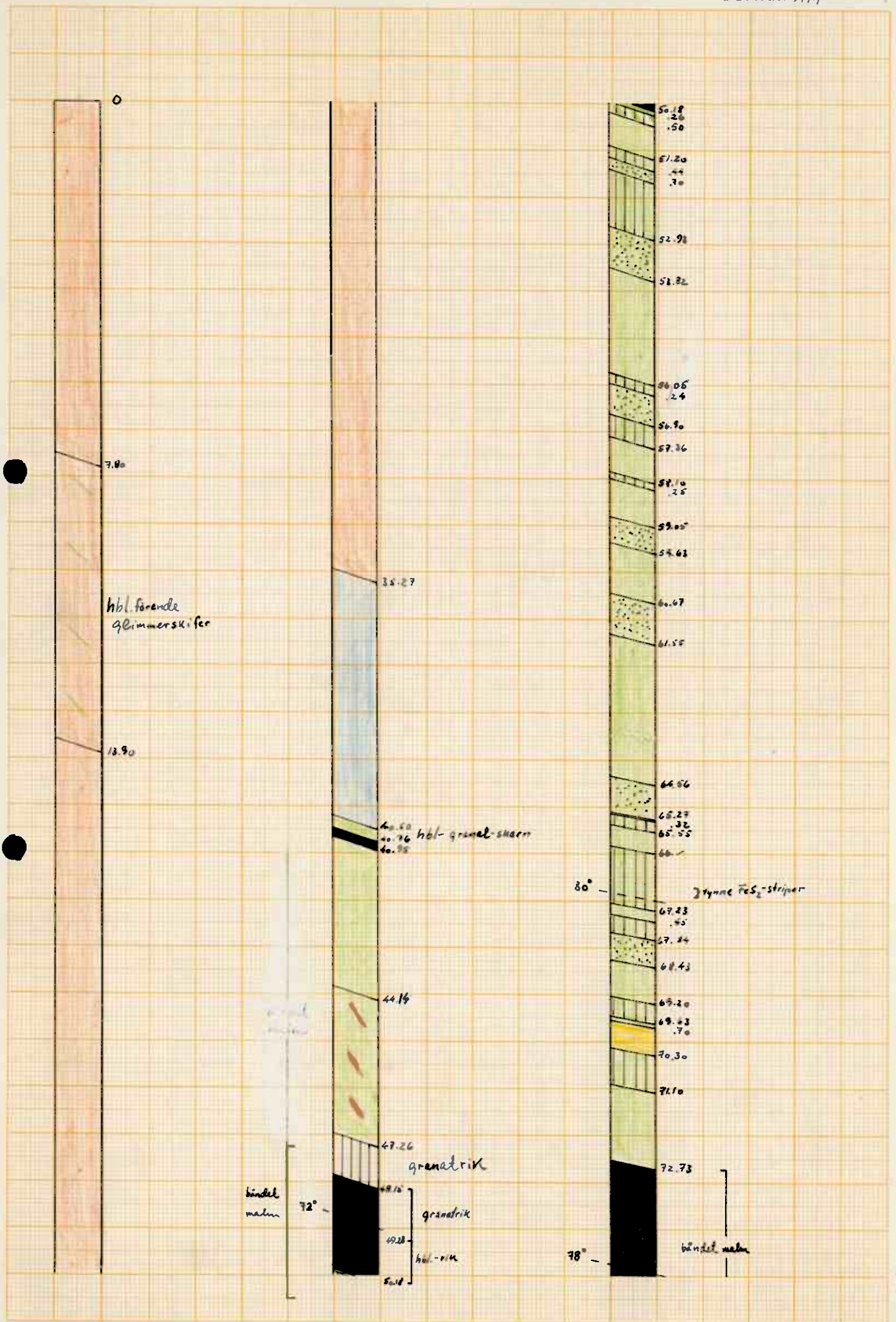


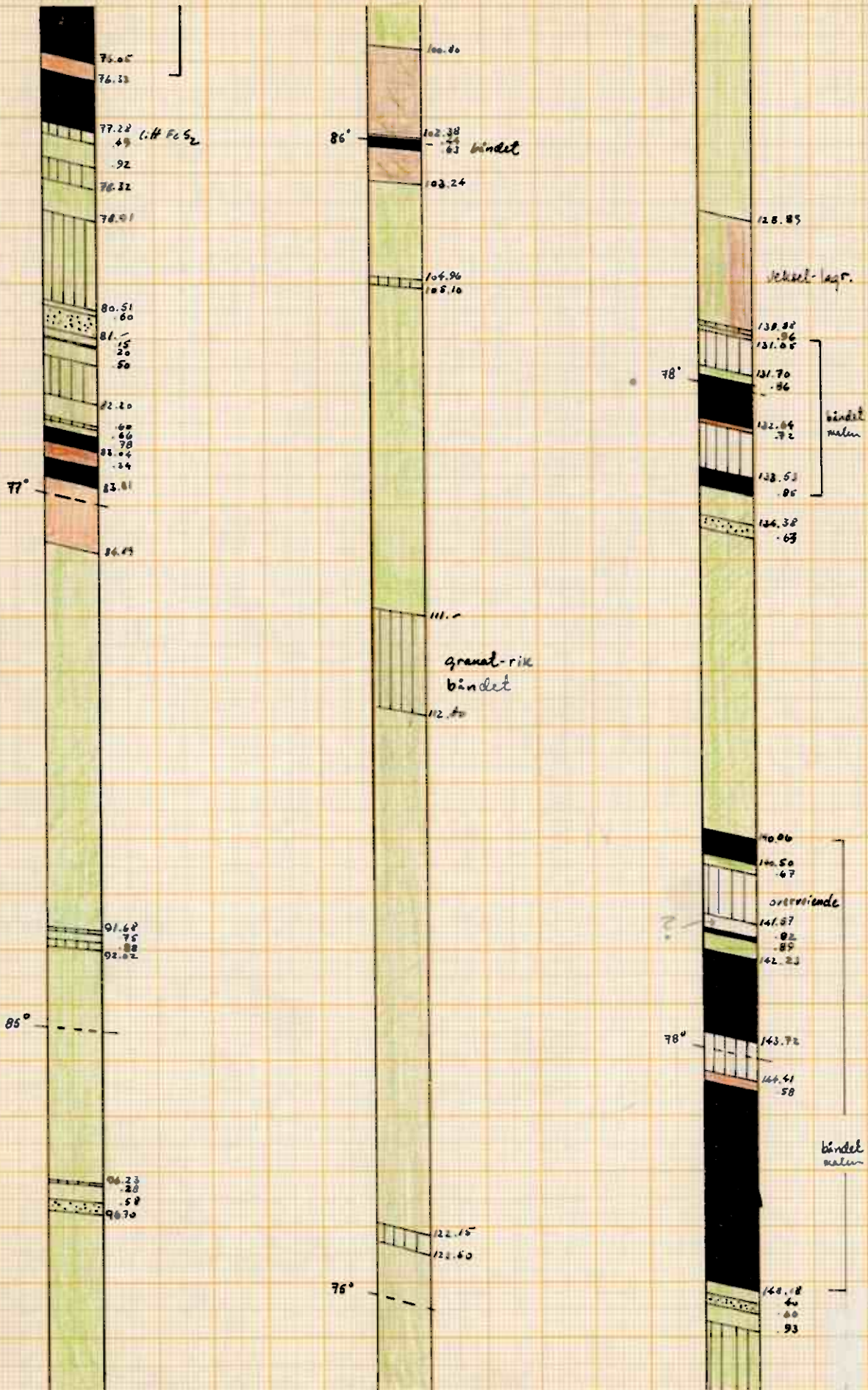


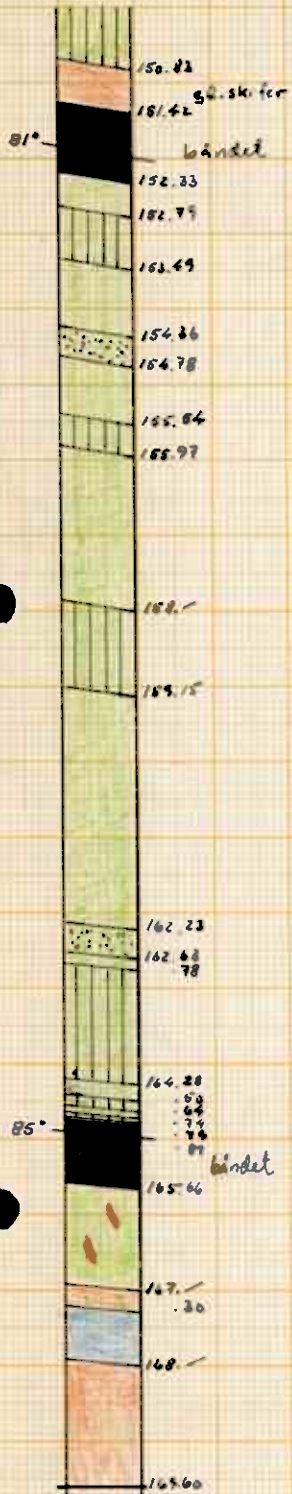


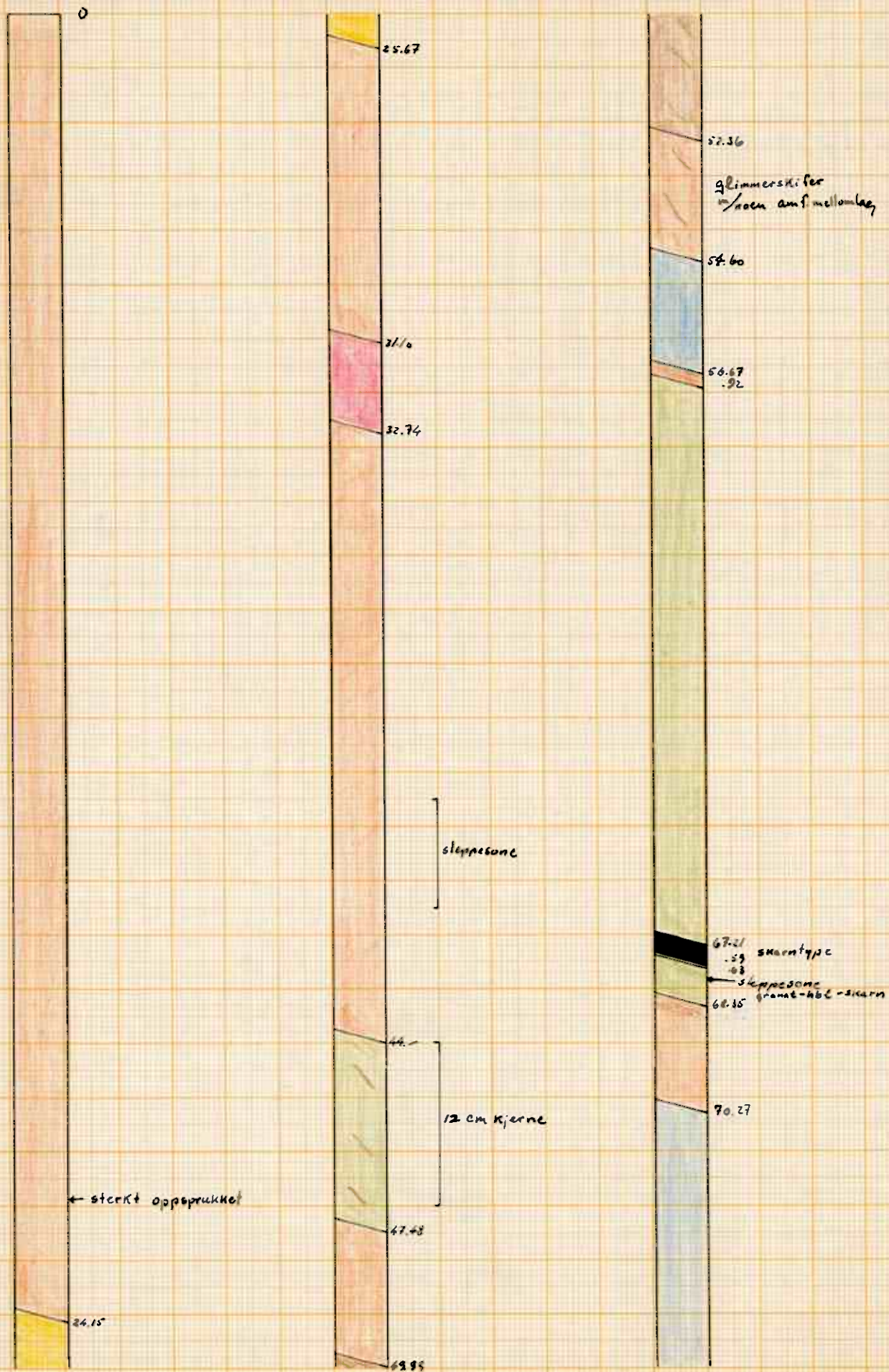


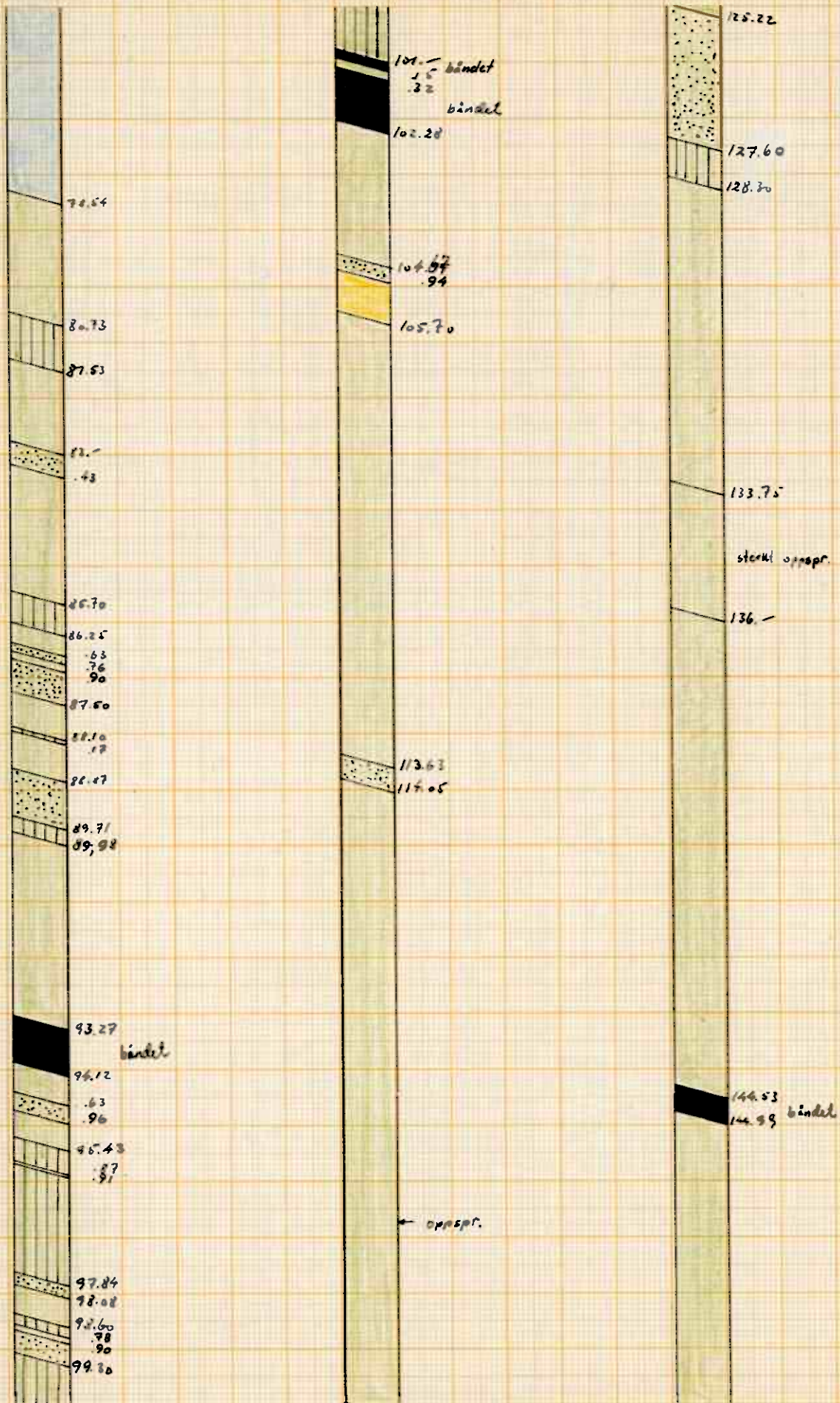












151.21
151.41

176.08
172.56

179.79
180.04

183.90
184.58

185.83

165.68 bindel
7.4
166.37 bindel

168.71

bindel

191.61
192.04

192.80
82
193.27
54

194.45
194.92
96

196.63
197.12
19
26 bindel, nalen
40
49
54
198.27
53
78

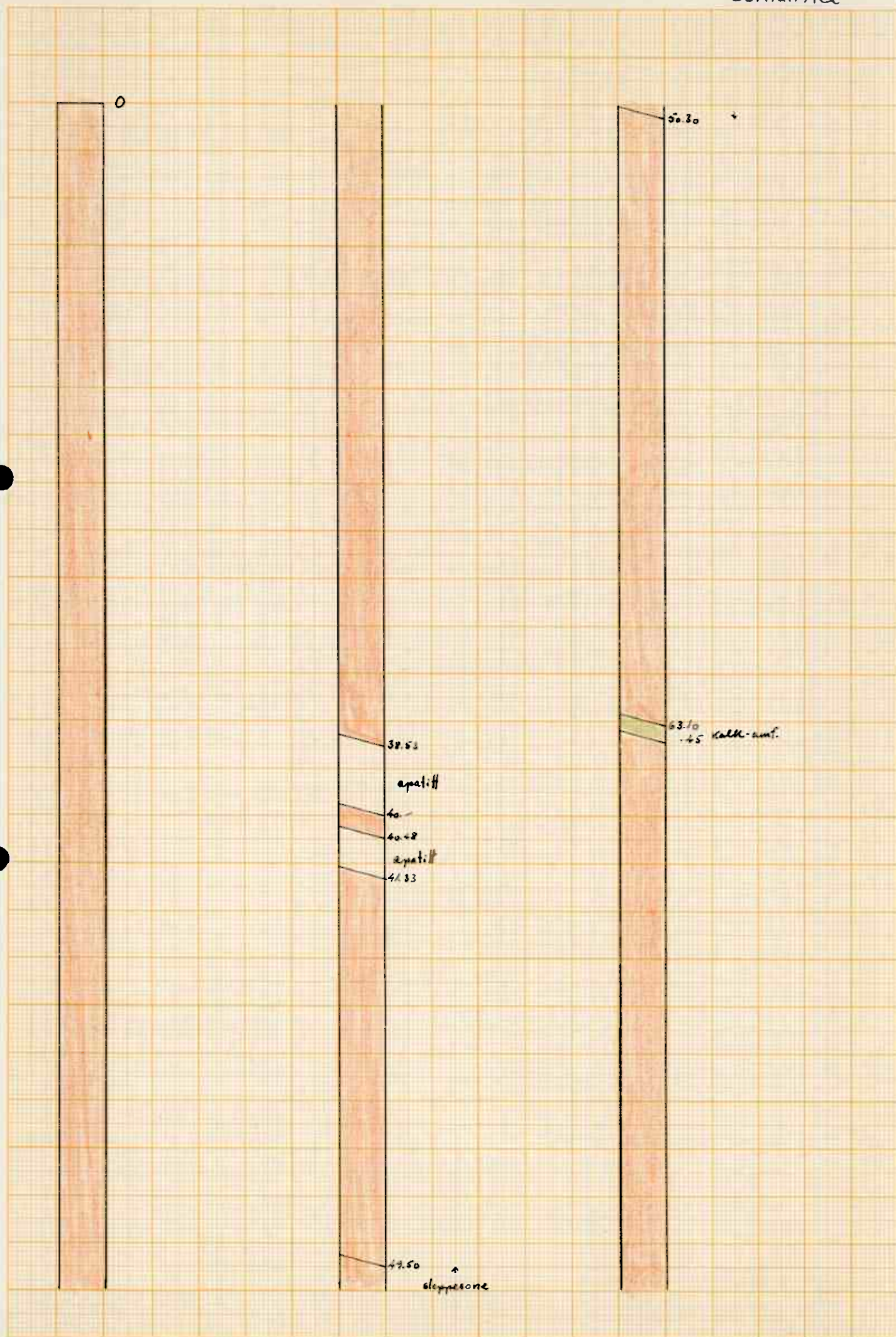
202.49
203.18
203.87

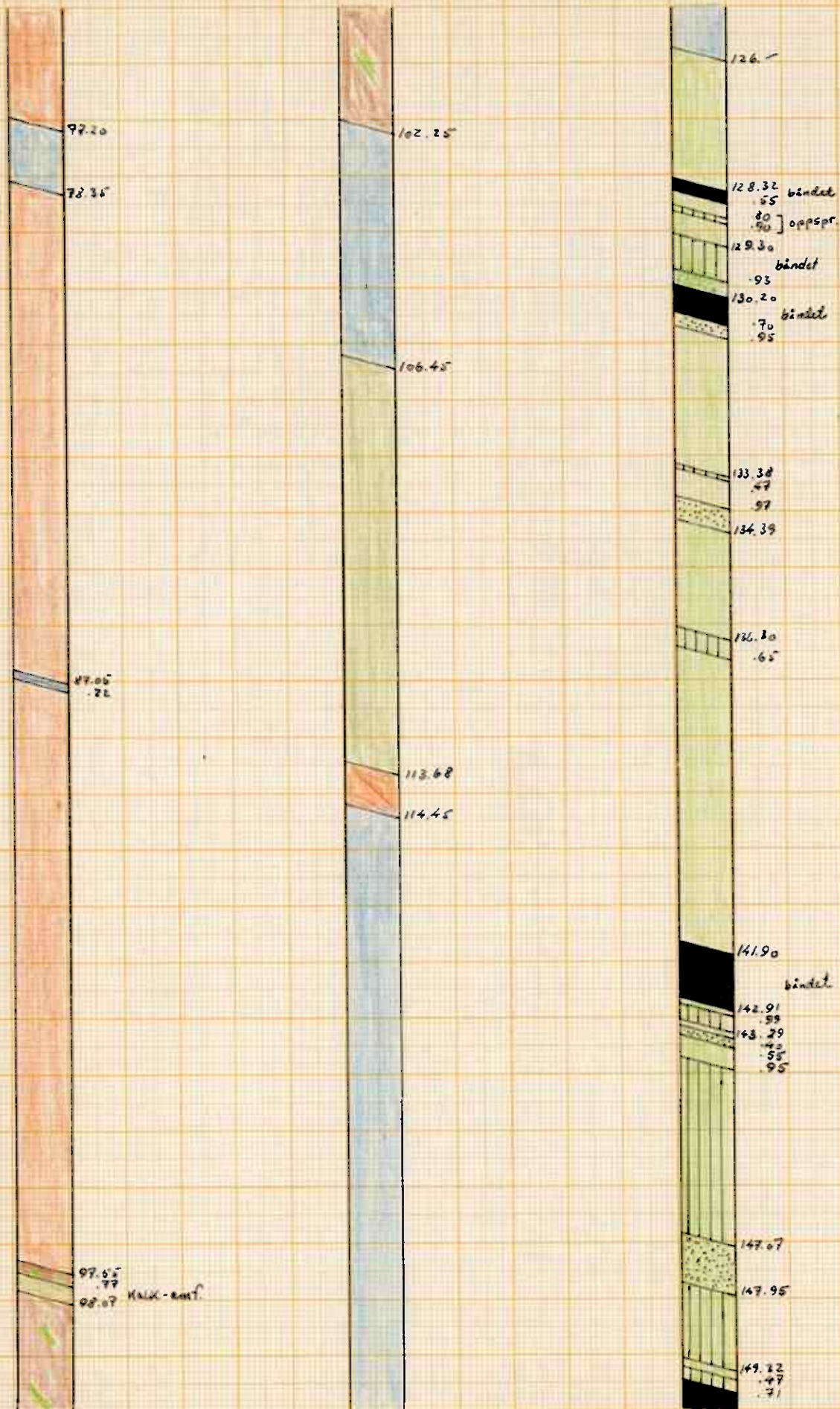
205.06
206.11
206.52

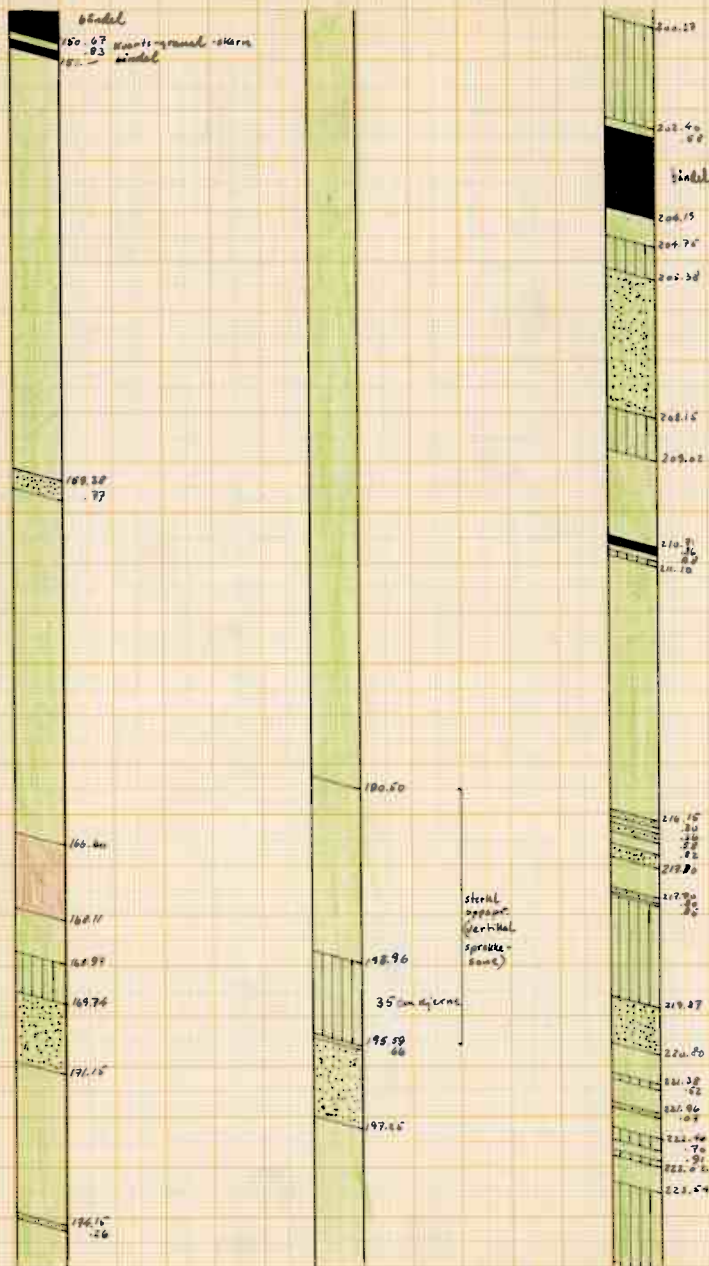
208.16
83
57

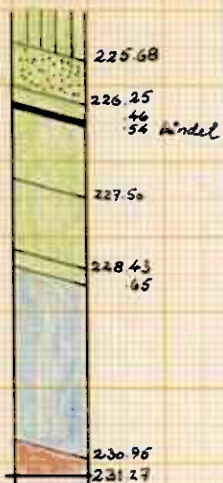
210.97
211.20 bindel
29
86 bindel
96
88

213.89



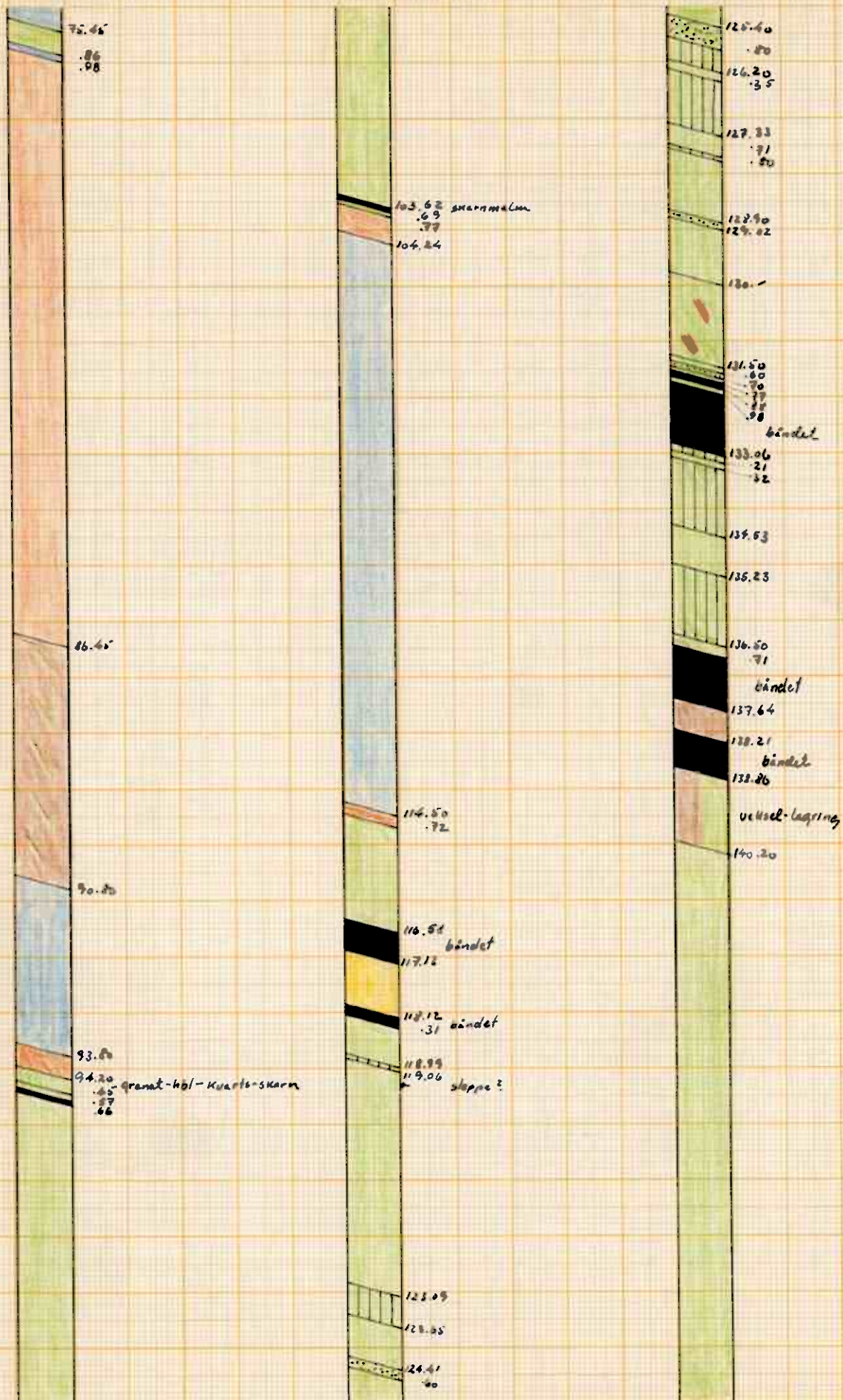


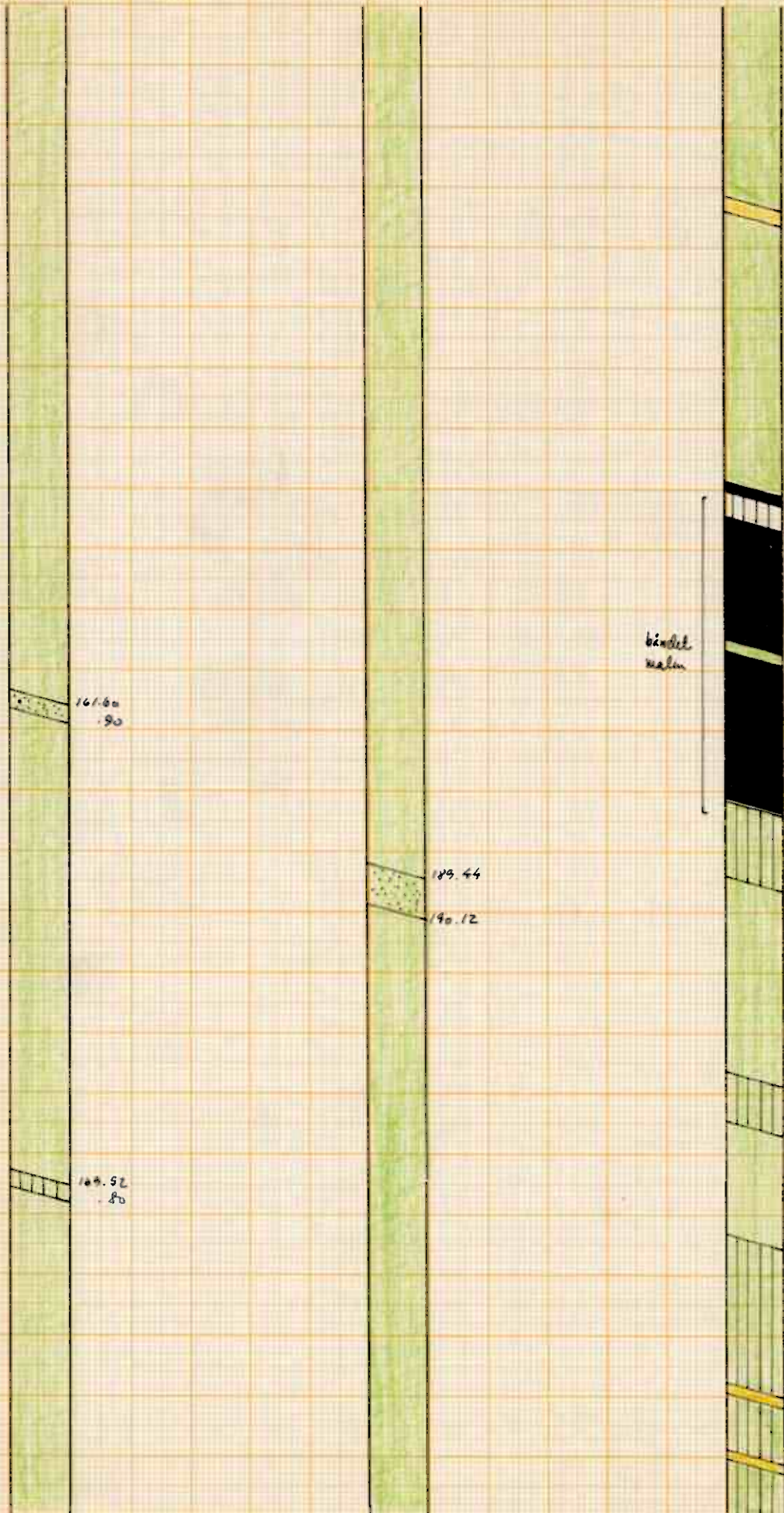






67.20
68.75
data's not used
69.65
71.1
74.85
98





161.80
.90

169.52
.80

189.44
190.12

bändel
malen

203.36
.68

208.13 -
.48
208.68

210.73
.93 granat-biol.-anf.

213.14
.40

214.05

217.88

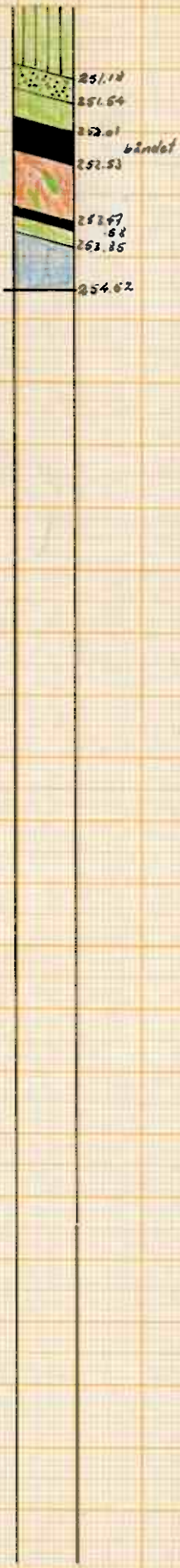
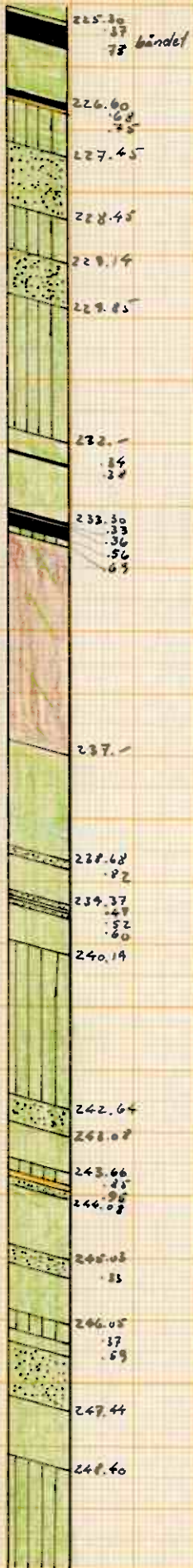
218.71

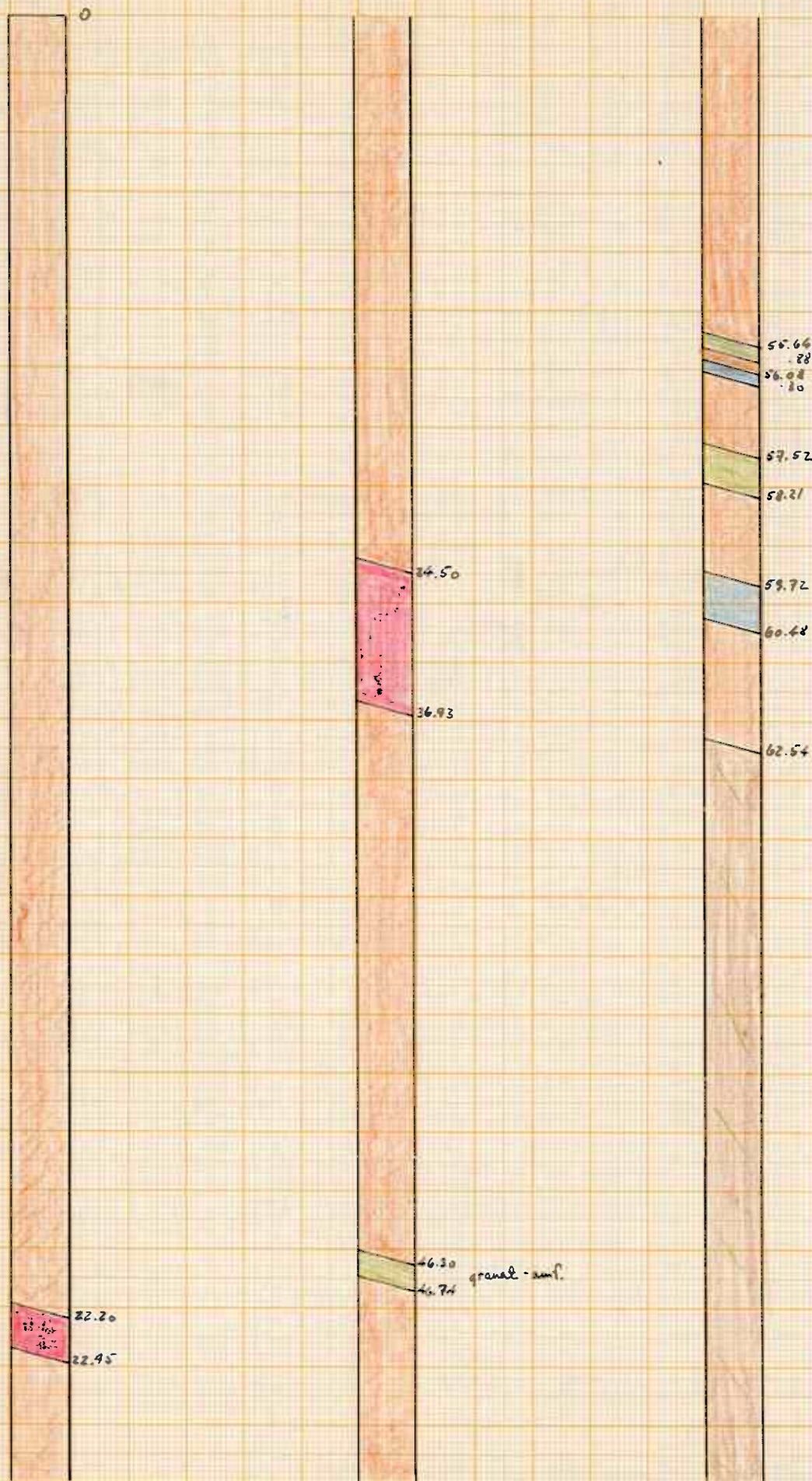
220.57

223.02
.20

224.57
.29

22. 10. 1957







82.1

82.85

84.45

Hidels m/awi mangel
sulfid-min.

87.10



128.22 båndet

128.93

129.55

133.52
.97

135.35
.79
137.09

140.72
.80

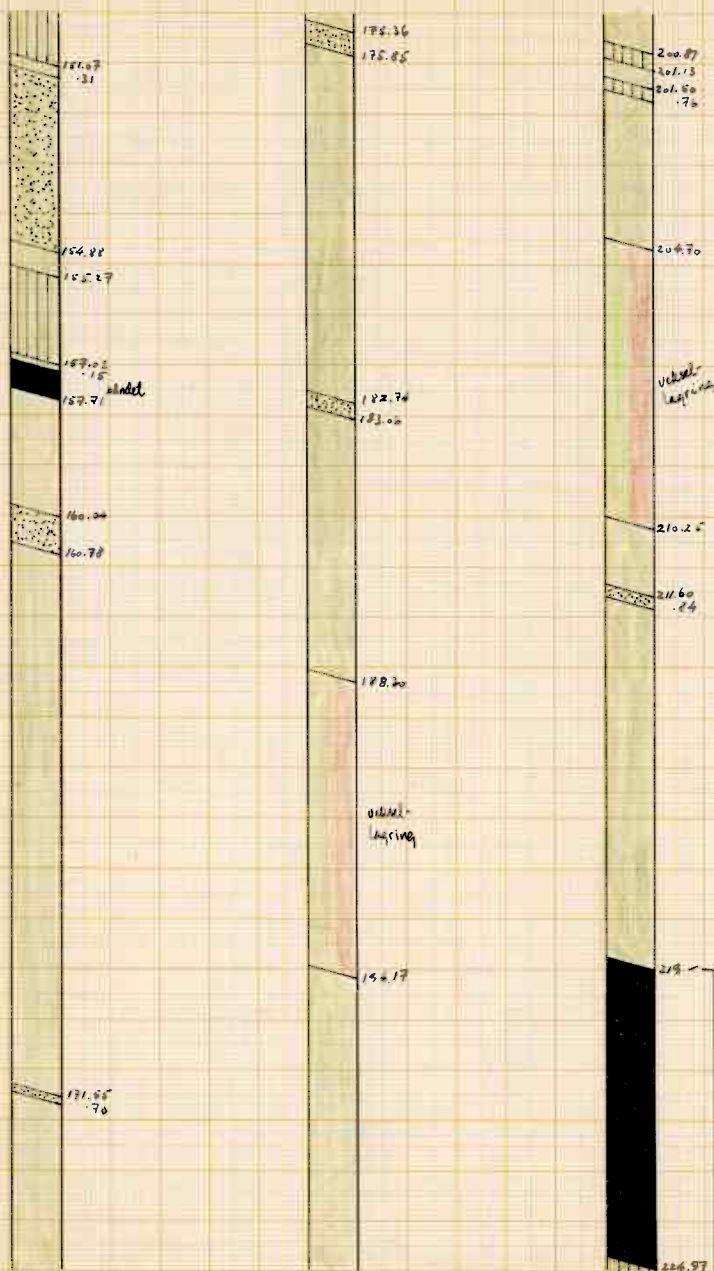
142.93

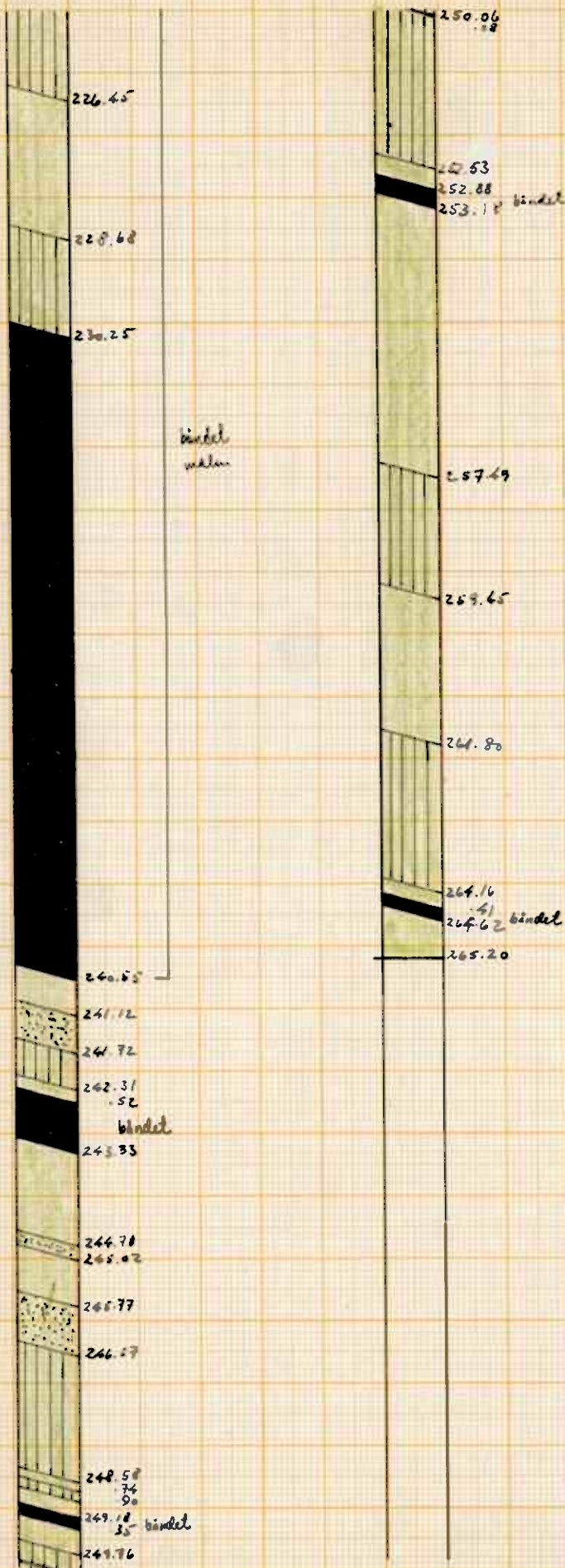
146.13 båndet
.20
.34

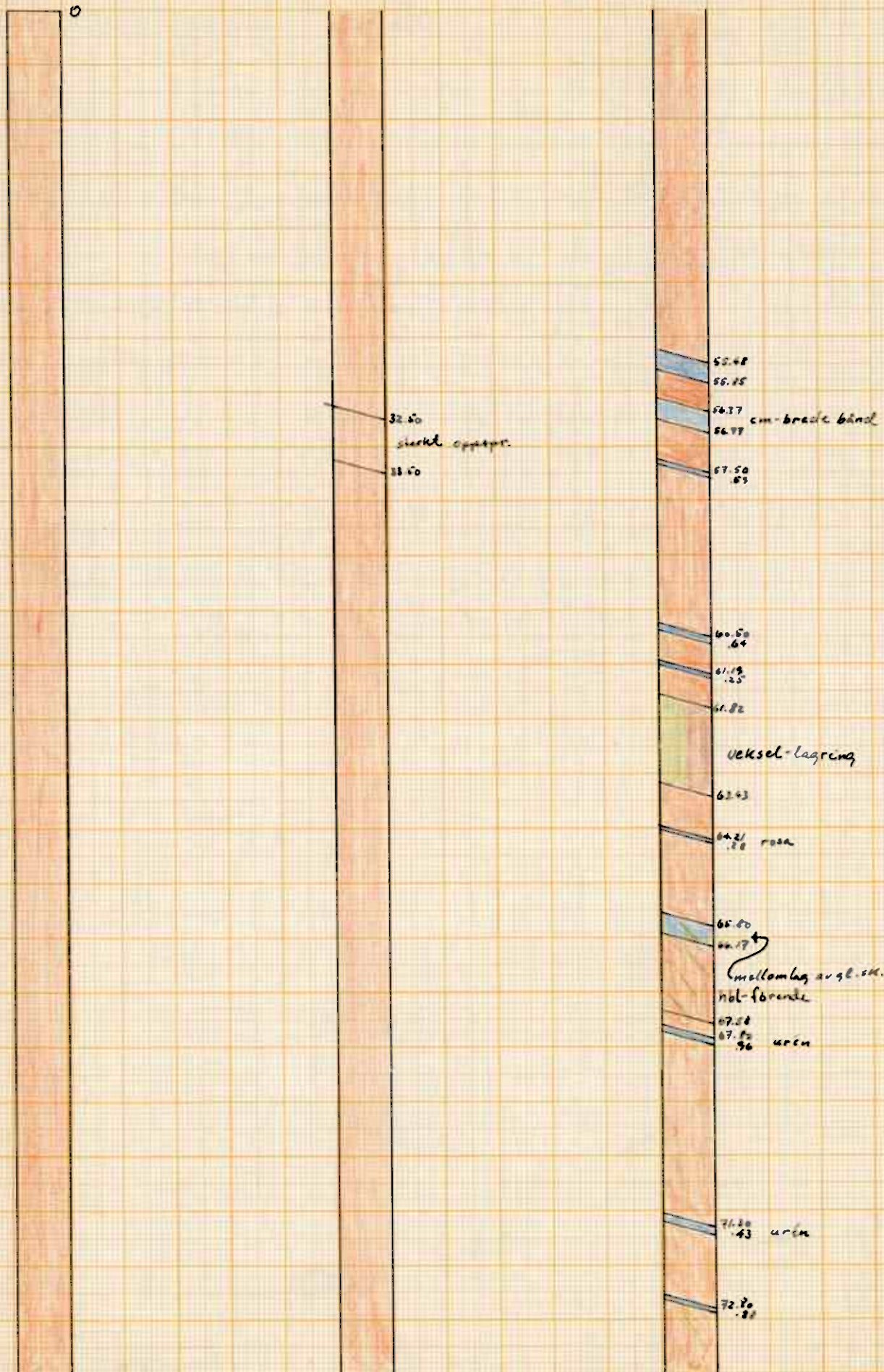
båndet

148.29
.35
.42

149.10







32 50

slack oppor.

3350

5548

56.15

100

cm-brace band

5677

67.50

1

60-50

64

61.19

1999

61.82

veksel-lagring

6243

42

100

65-50

00.17

mellomlag av gl. sk.

not-forensic

407.58

7.

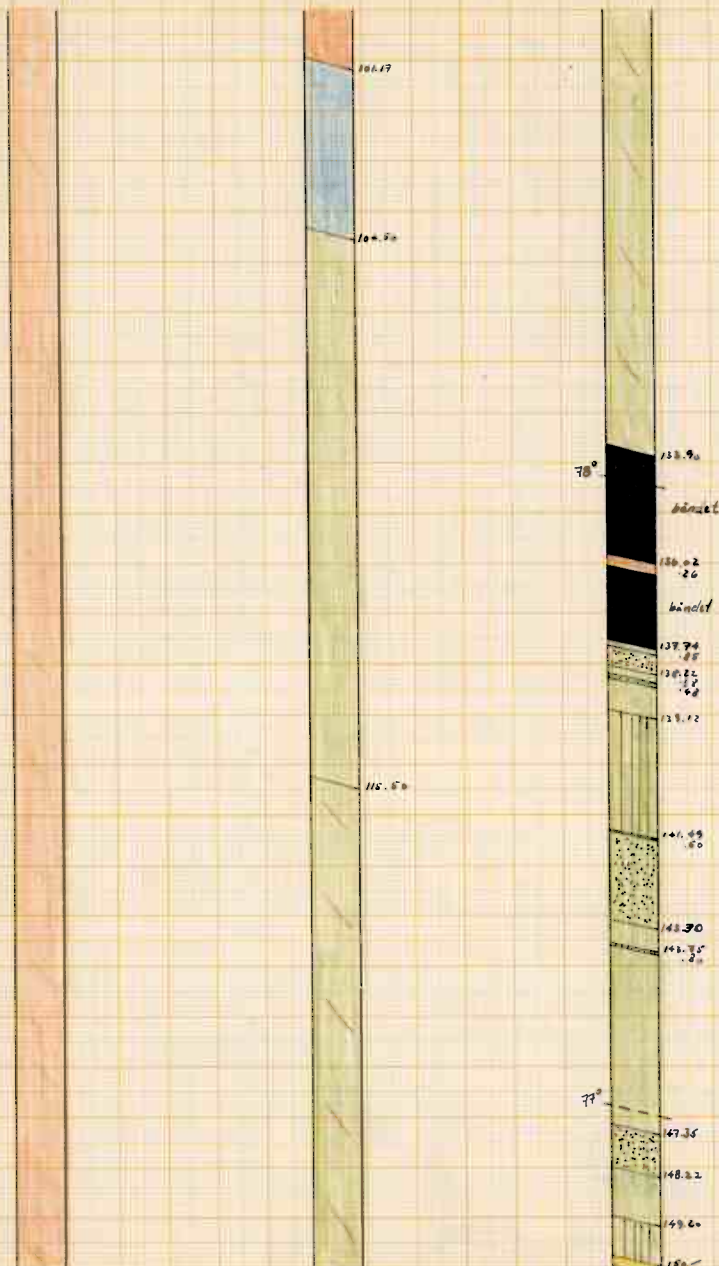
100

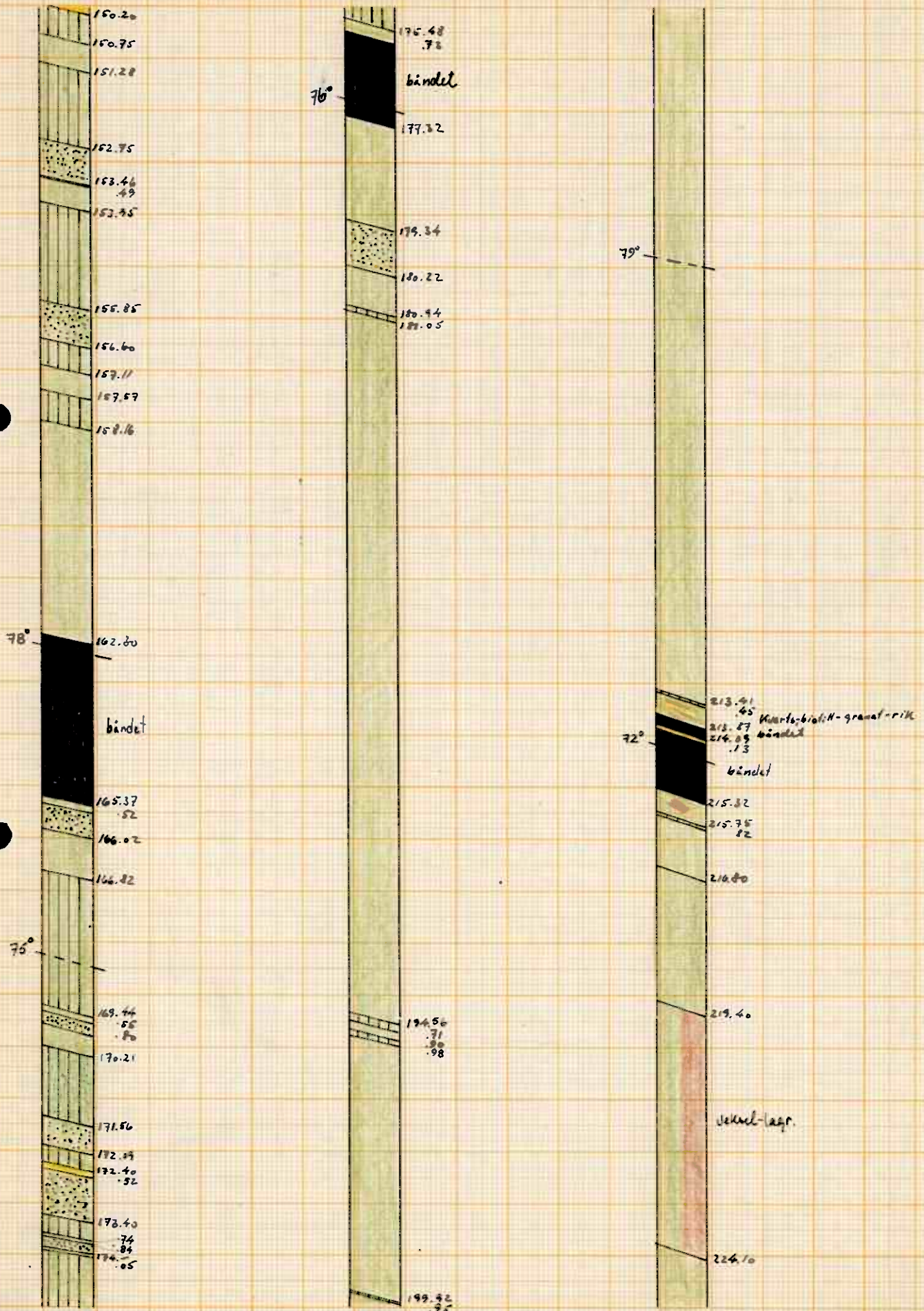
71.30

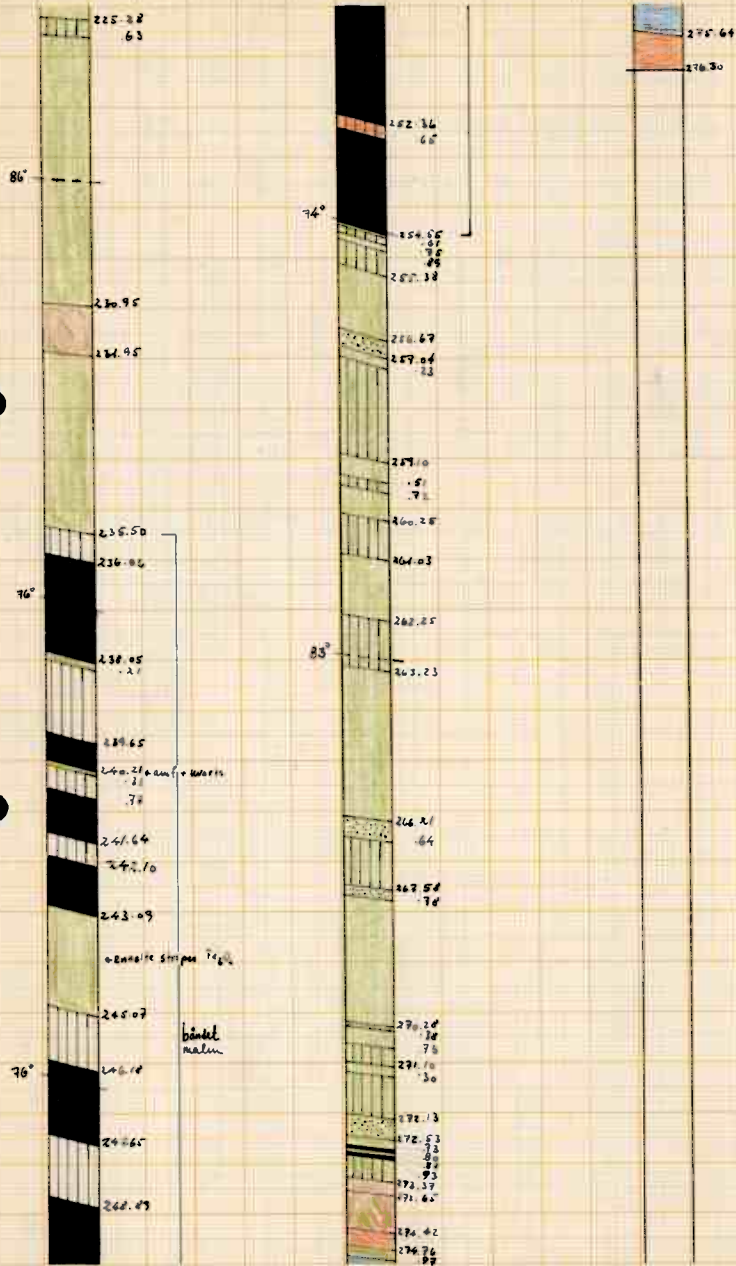
43

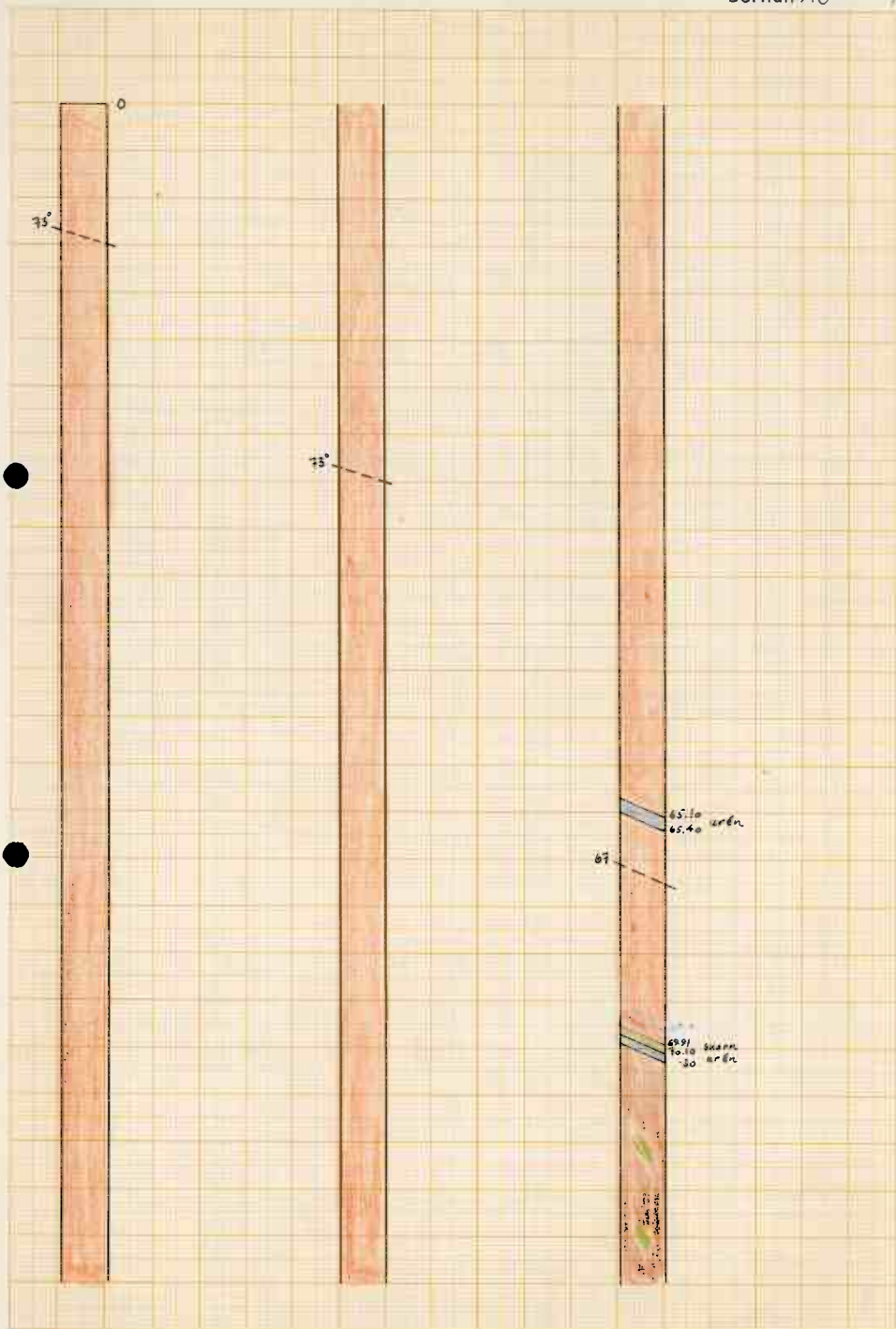
72. ४०

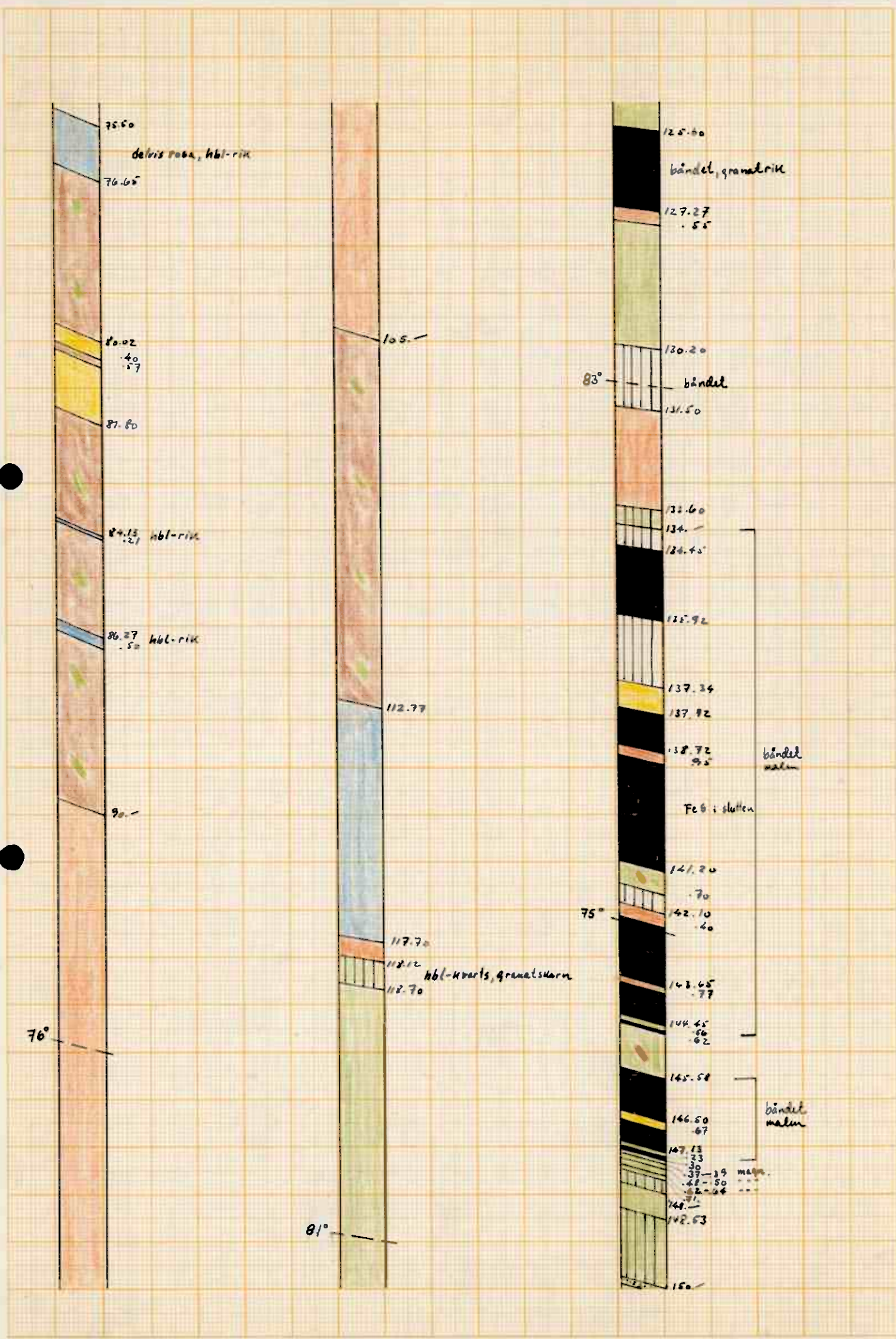
10

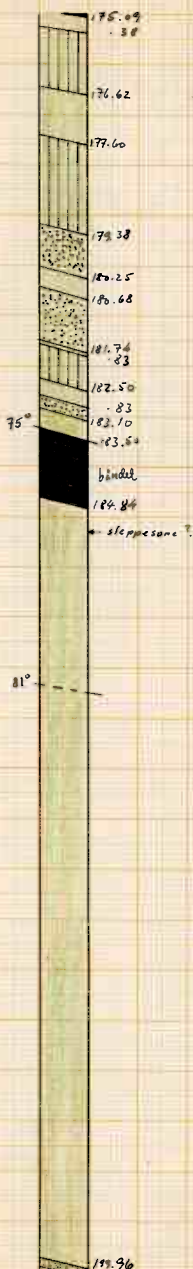
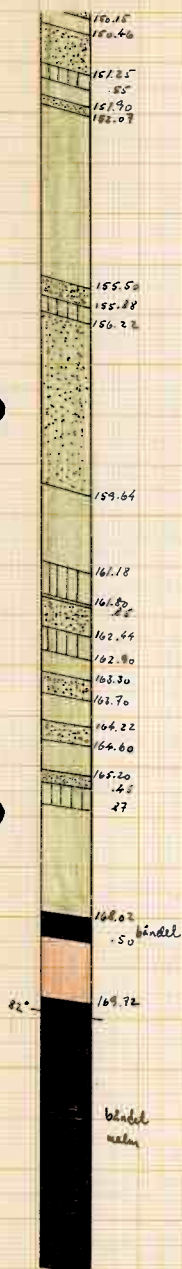


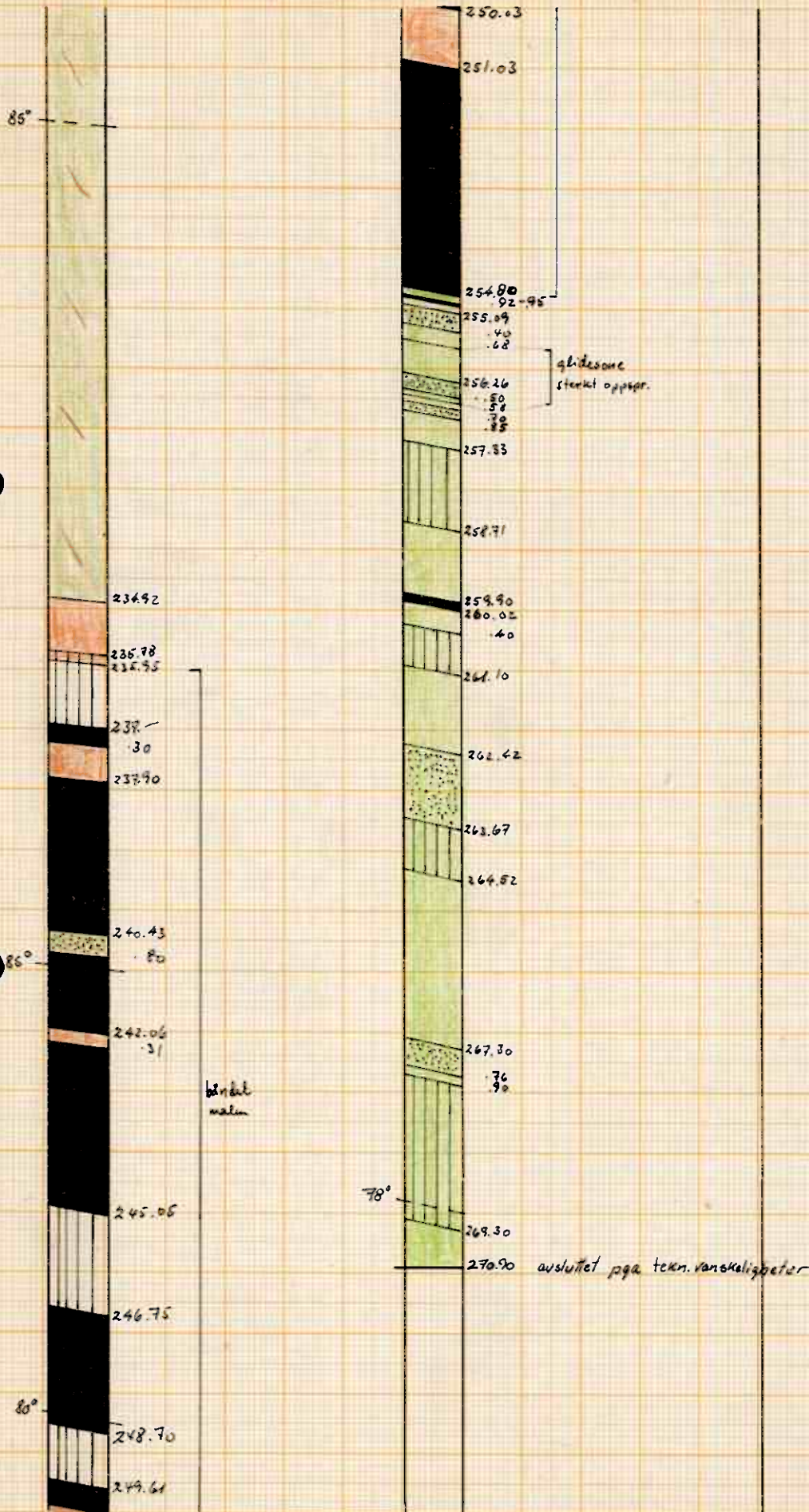


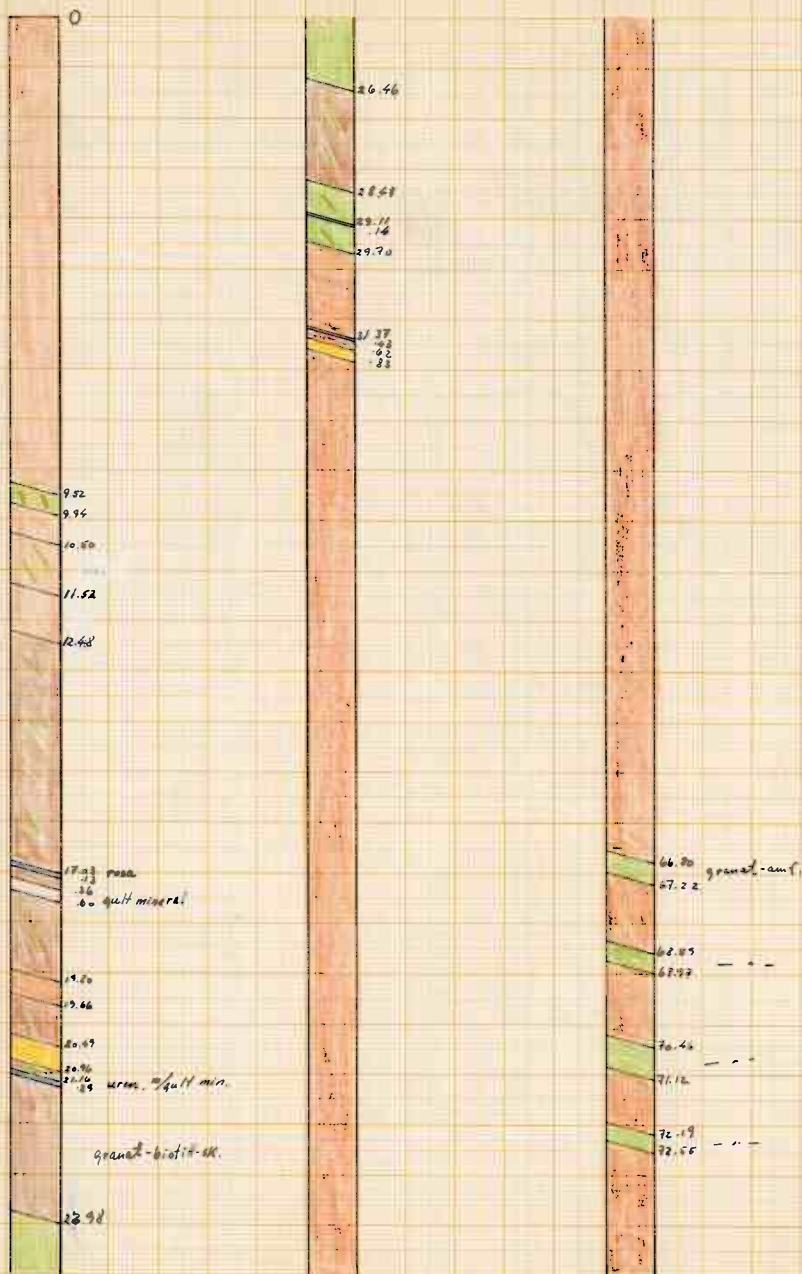


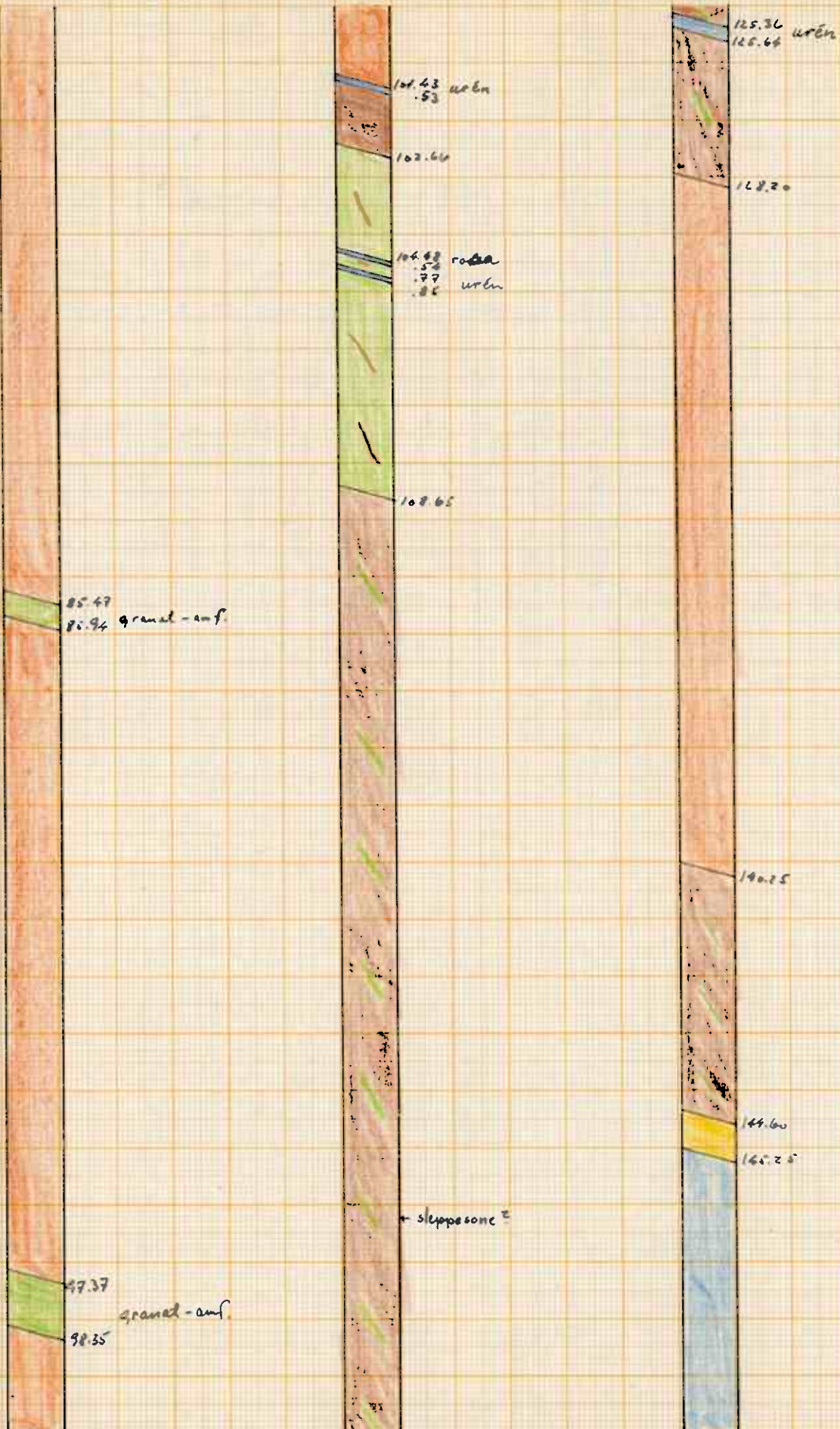


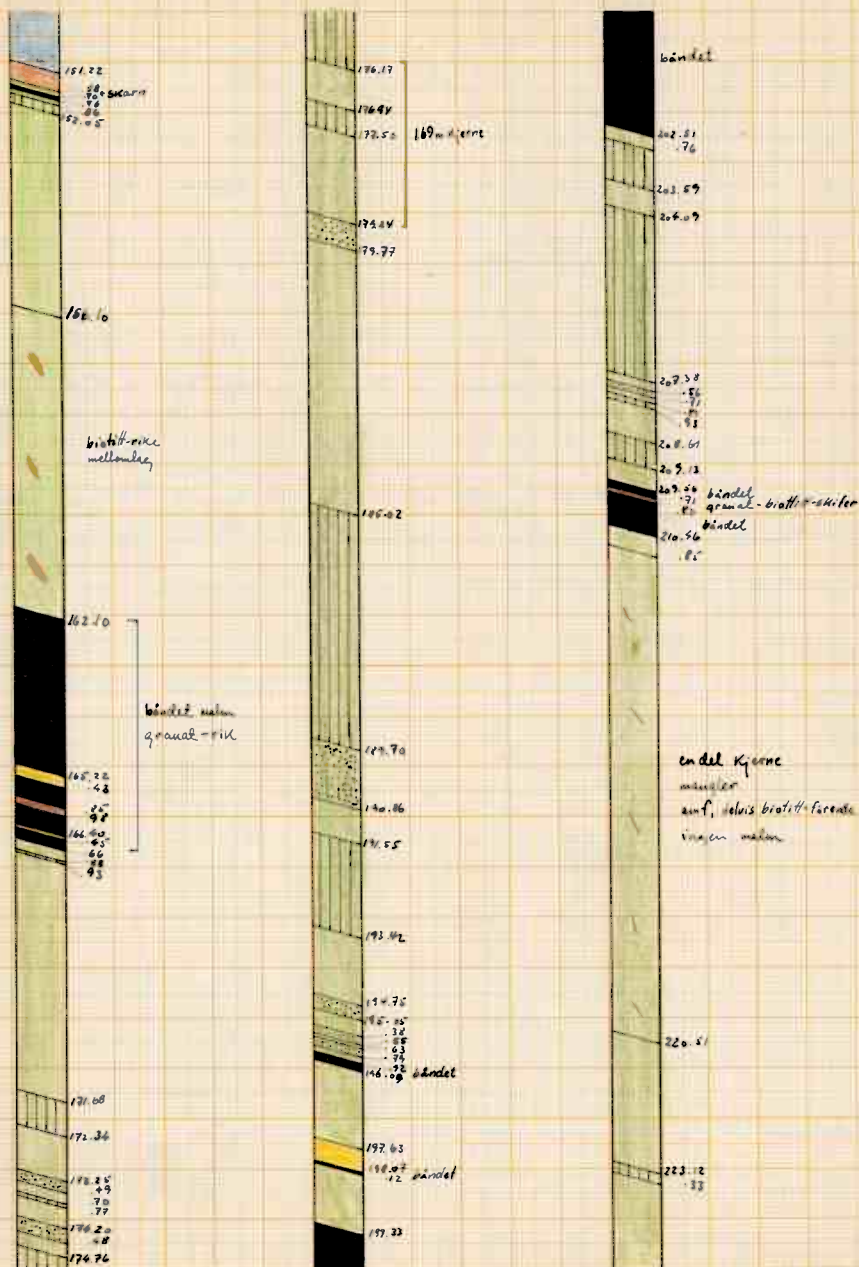


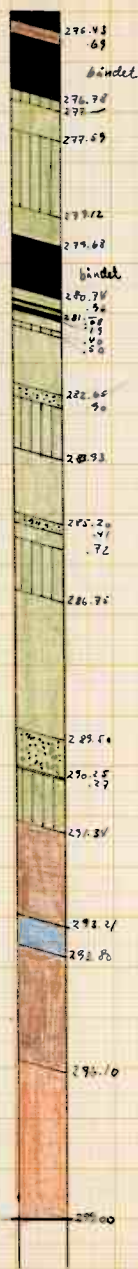
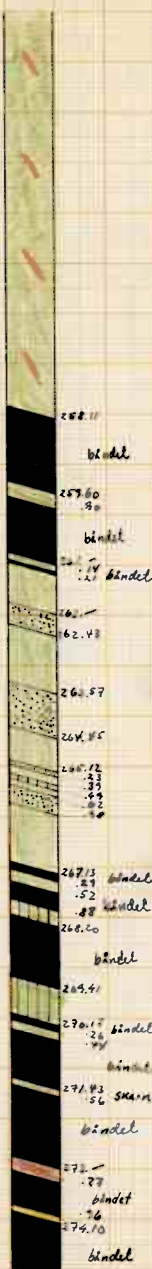




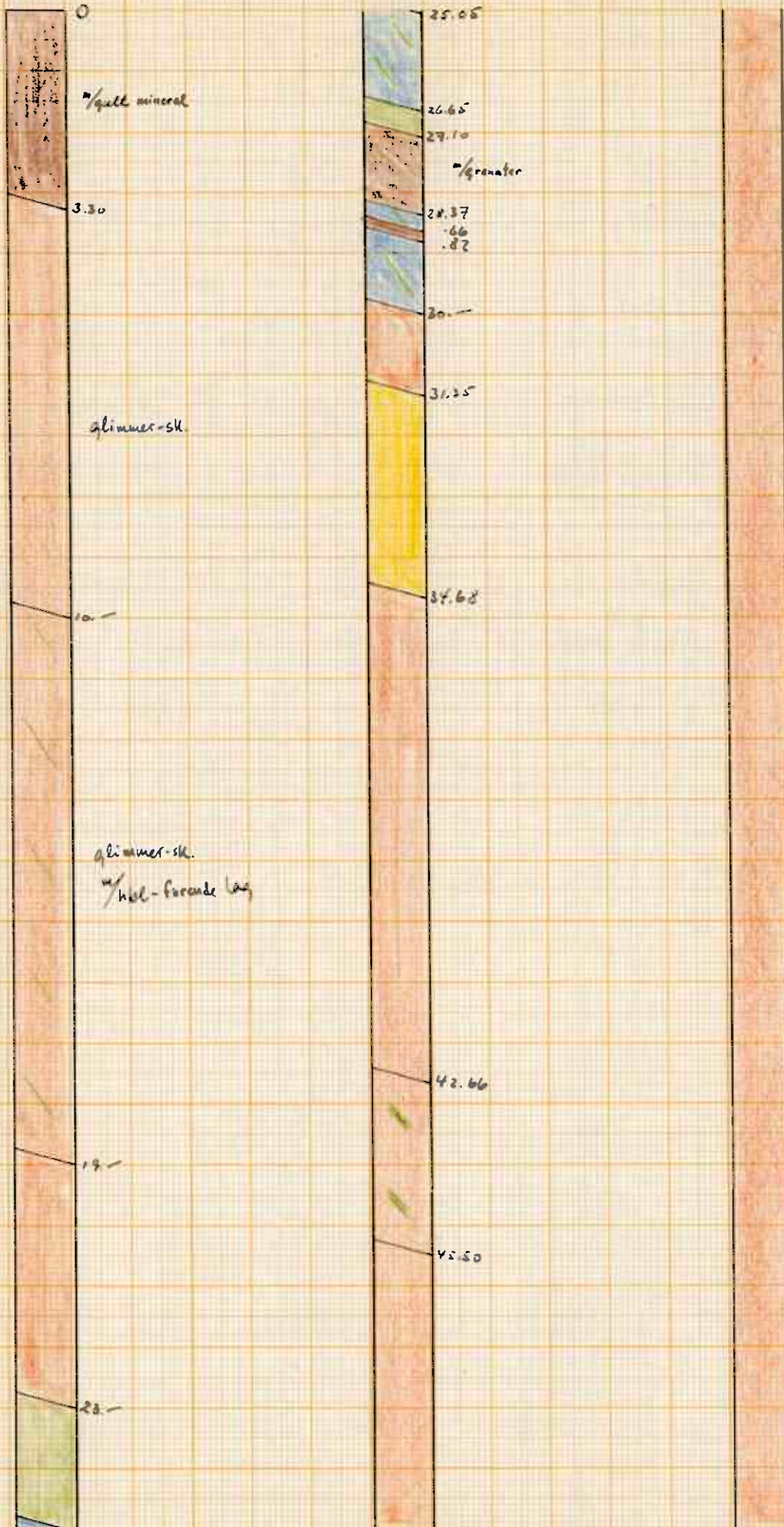


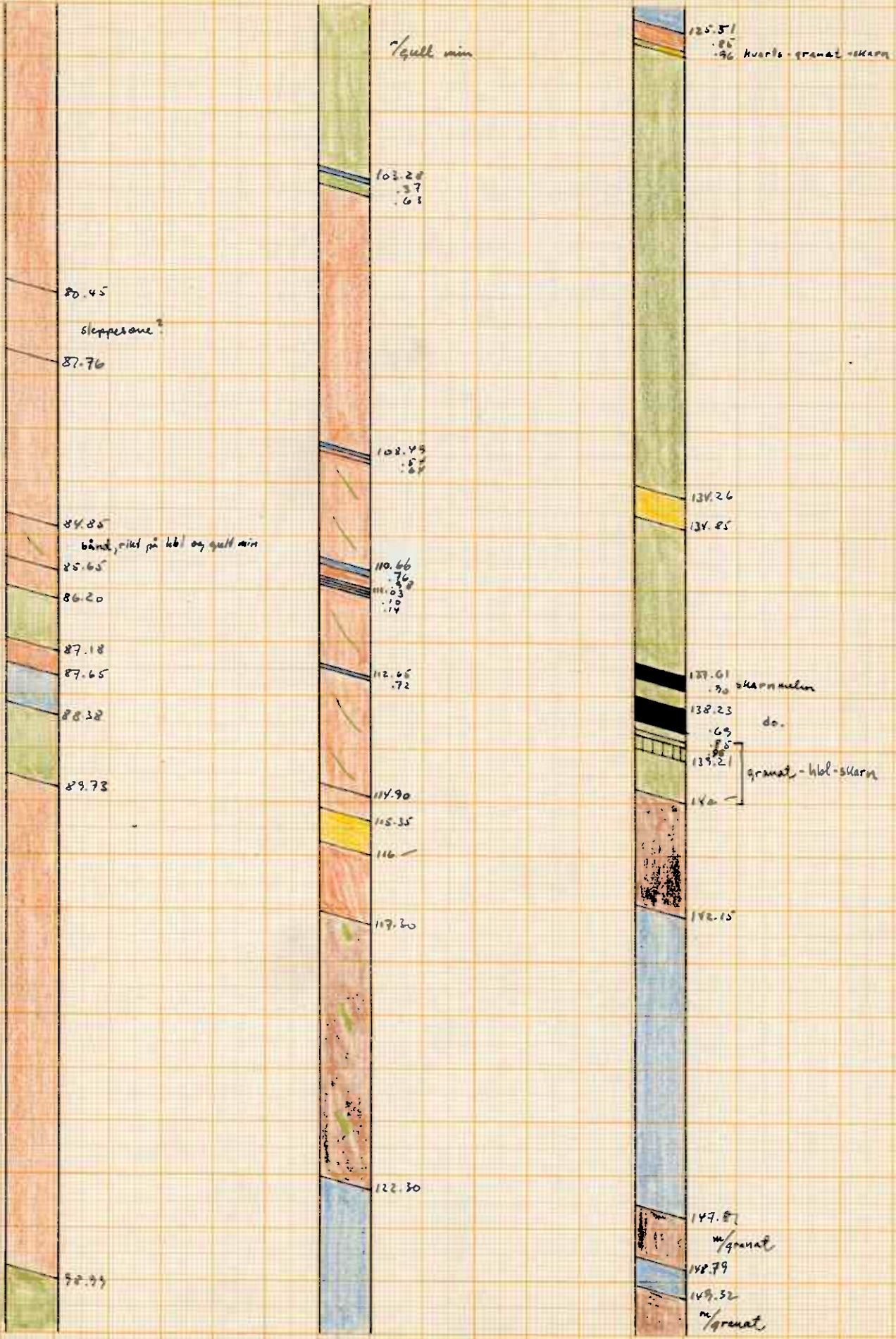


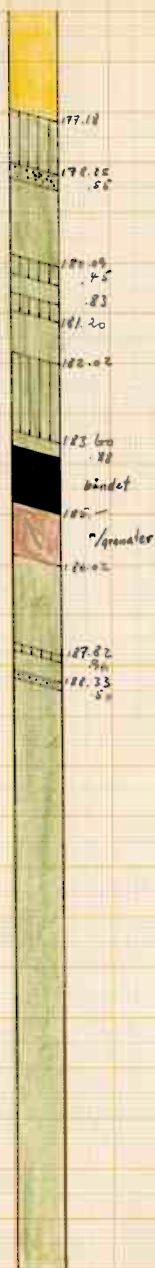


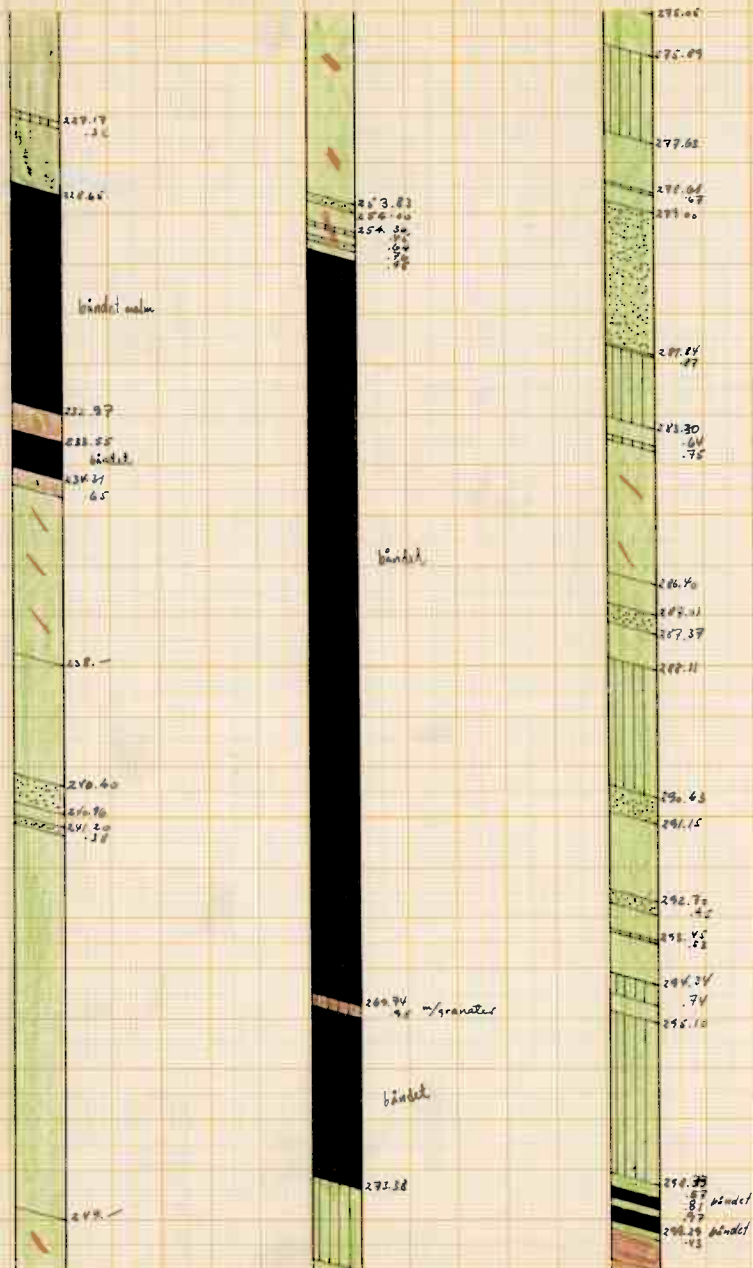


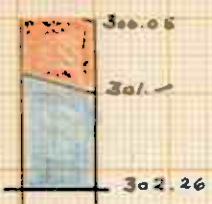


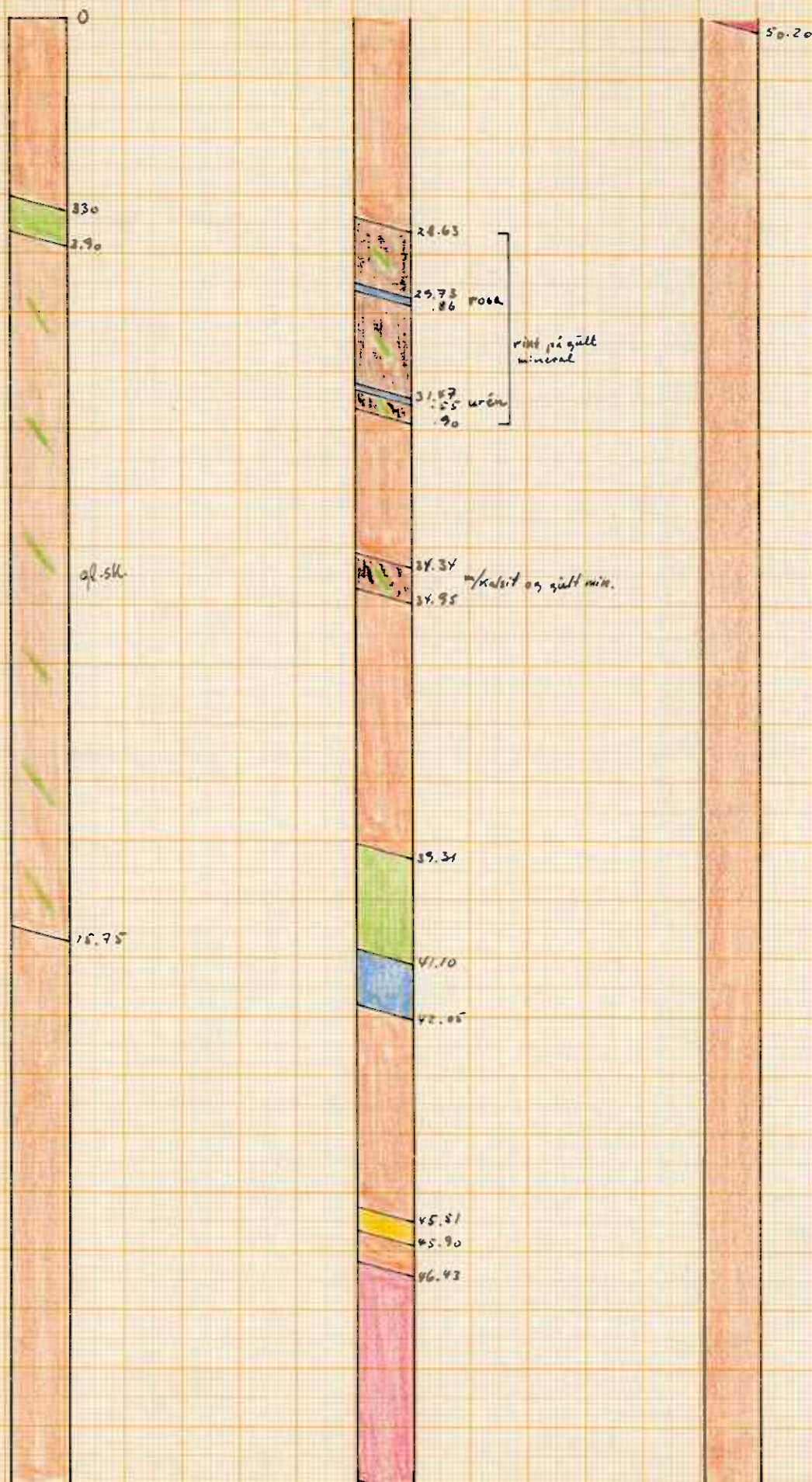


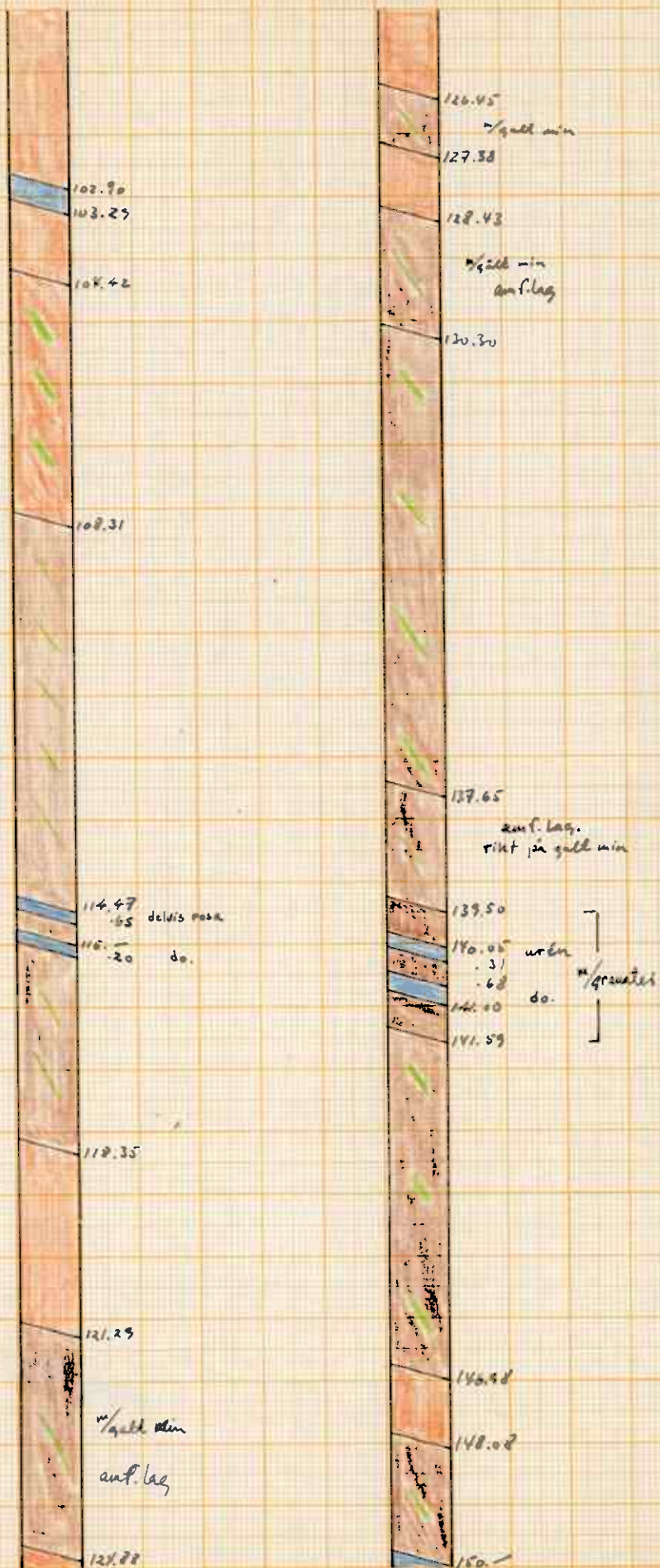




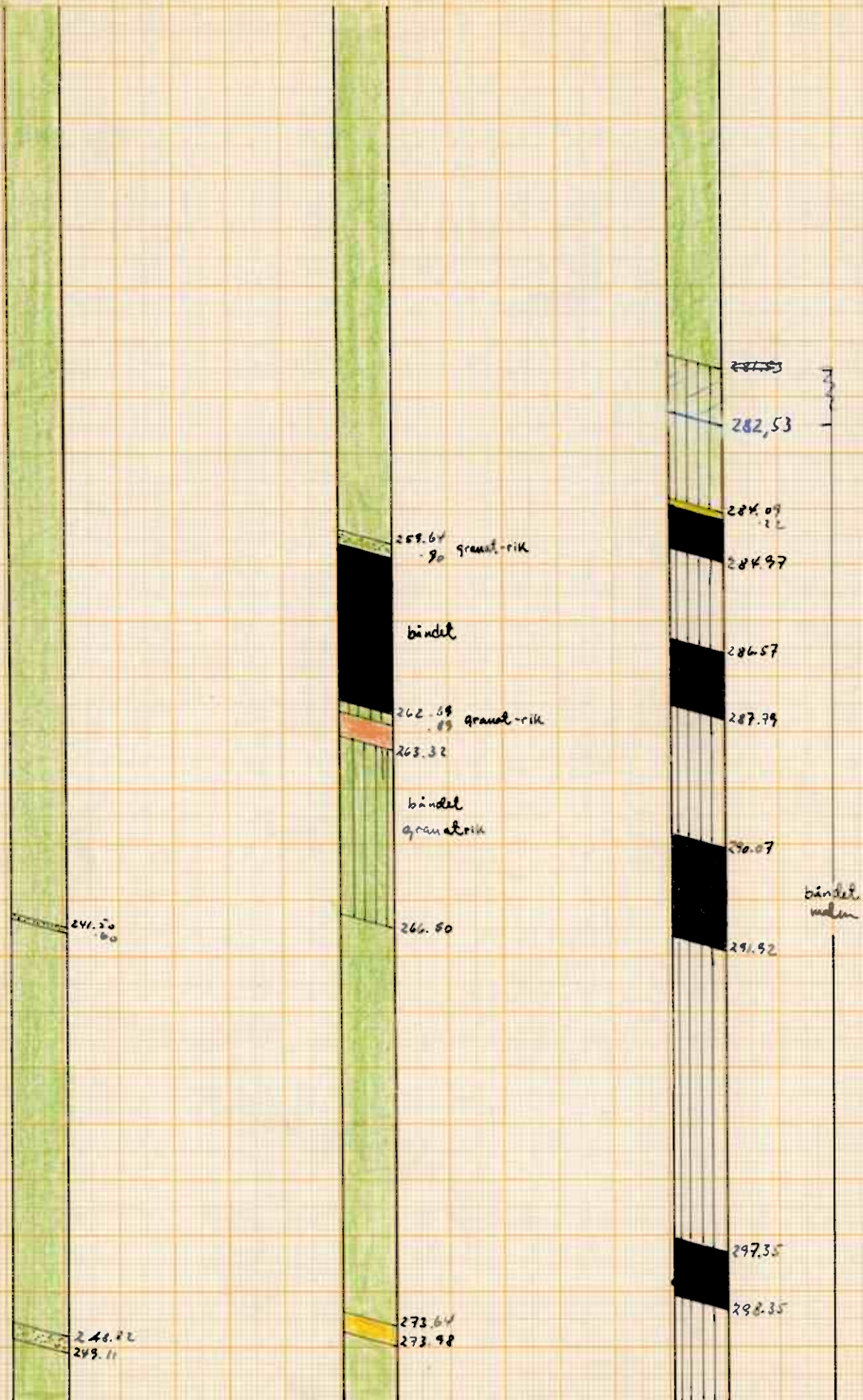


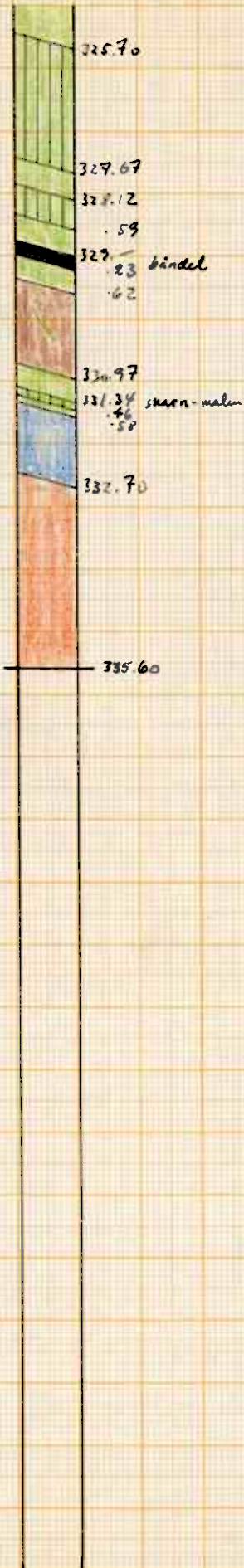
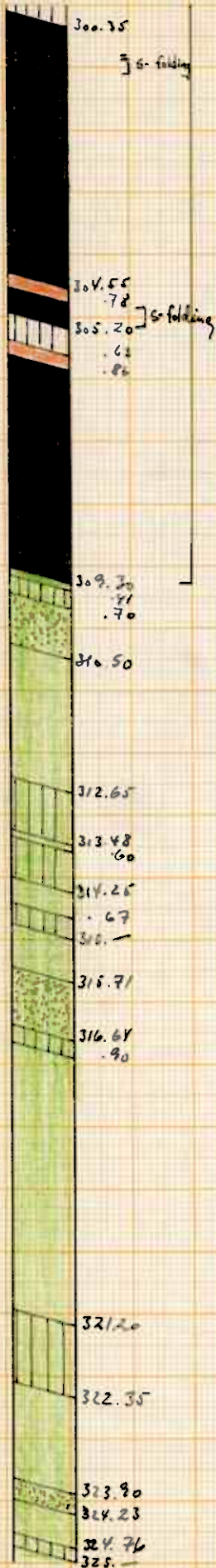


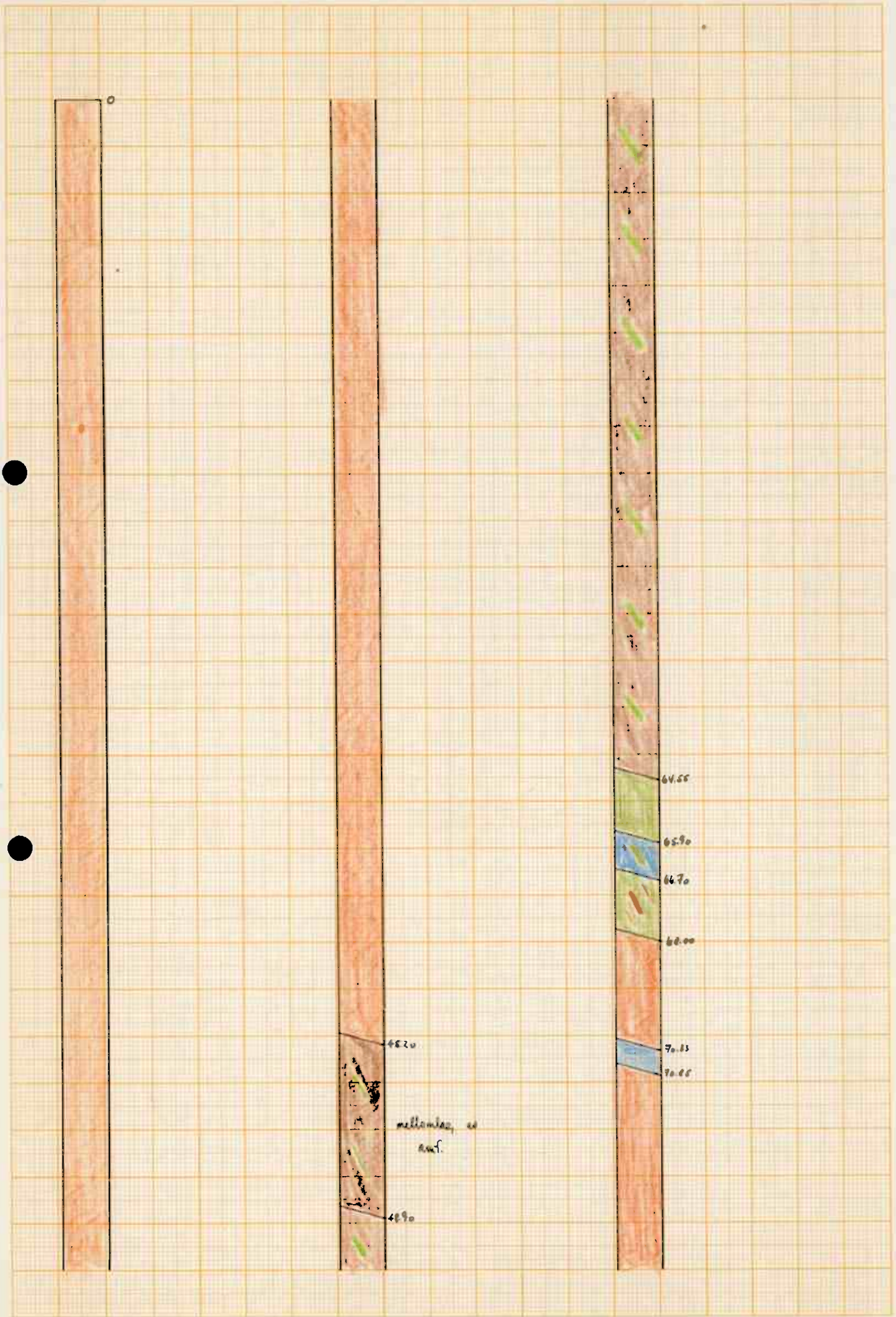














82.75
95 slapsone



132.34

mellomlag, as gl. sh.

133.40

138.07
-12
-52

hbl - sq. marmor - bind

142.96

143.62 delvis rogn

146.48
-70



182.95

183.53

189.24

glimmer - sh.

166.70



186.95

180.15 are of impr.
.38 at FCS

192.53

193.65



216.1

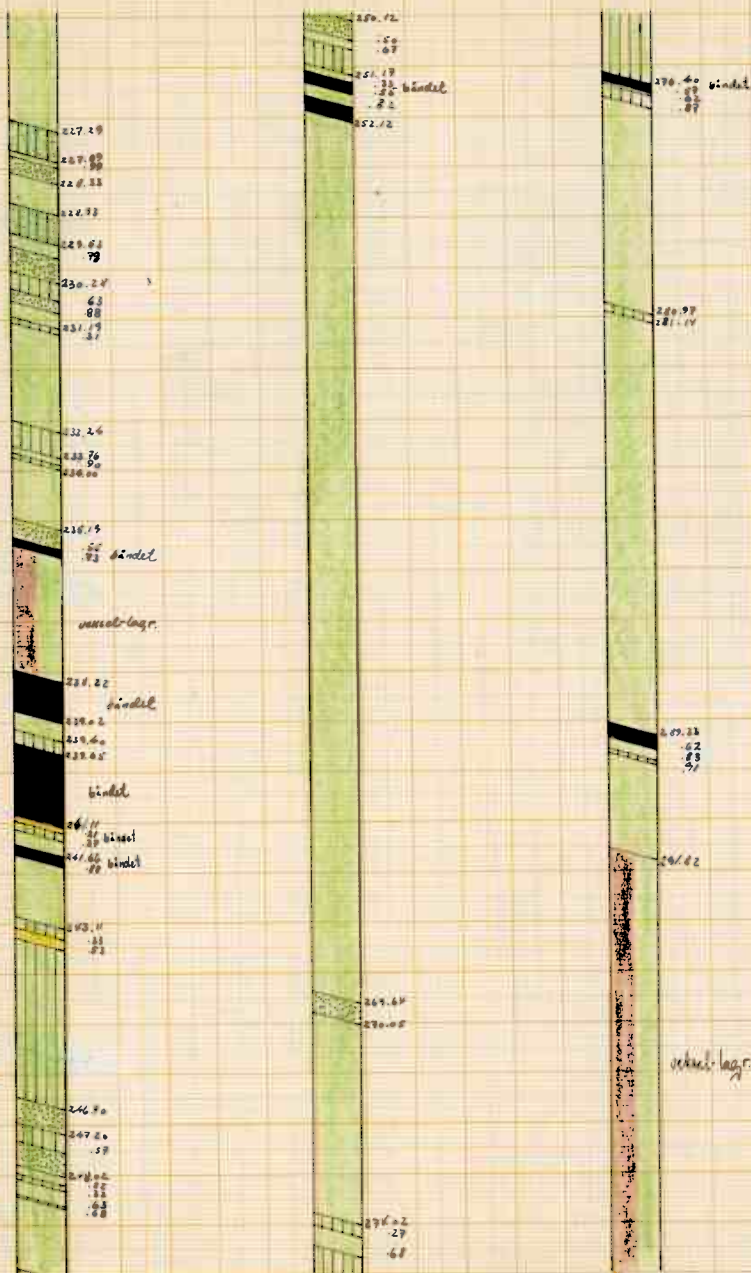
218.12

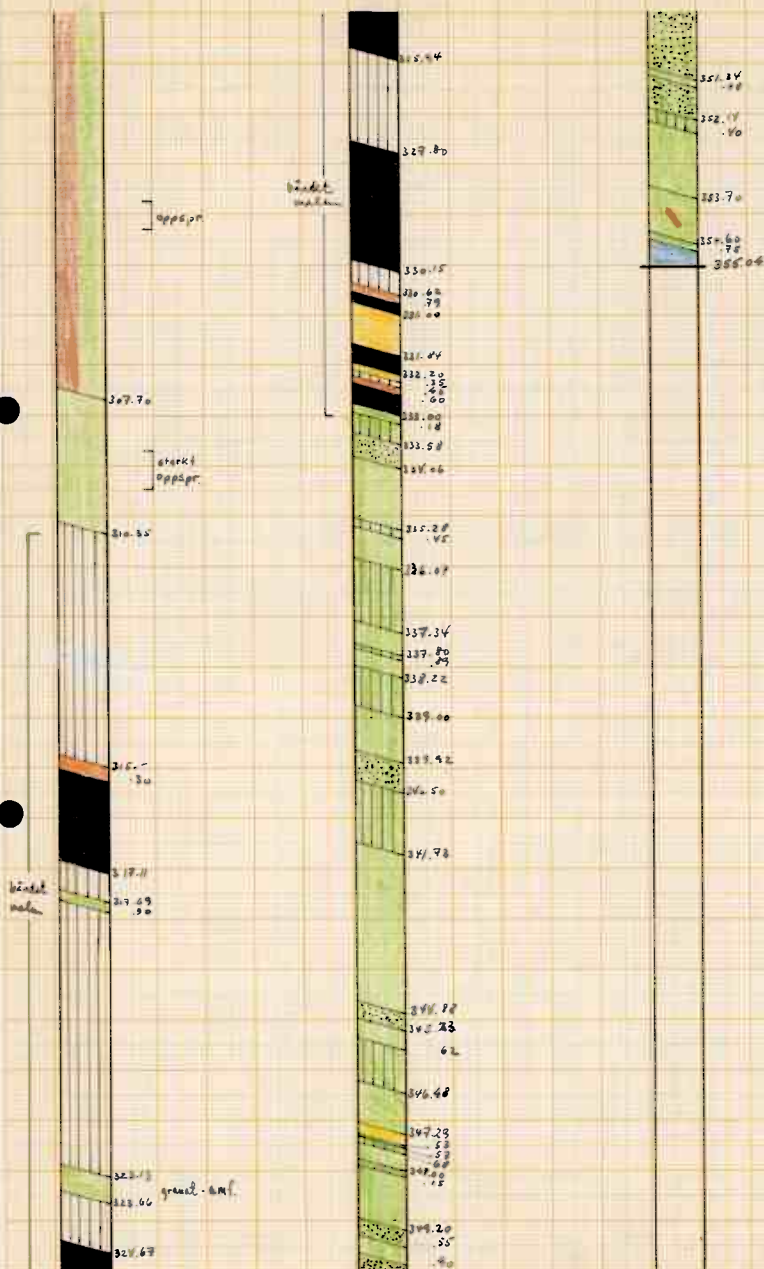
219.63

220.53

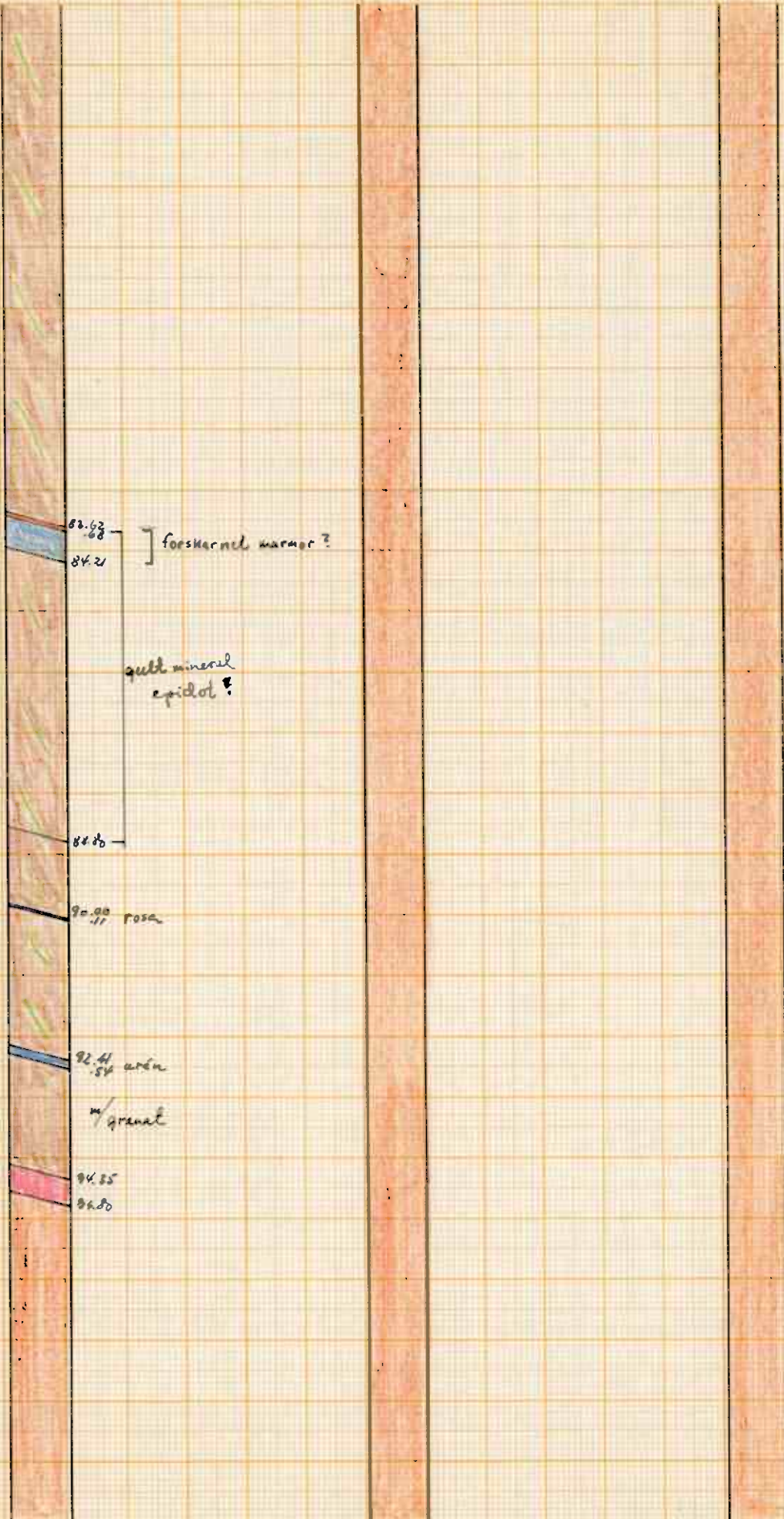
221.1

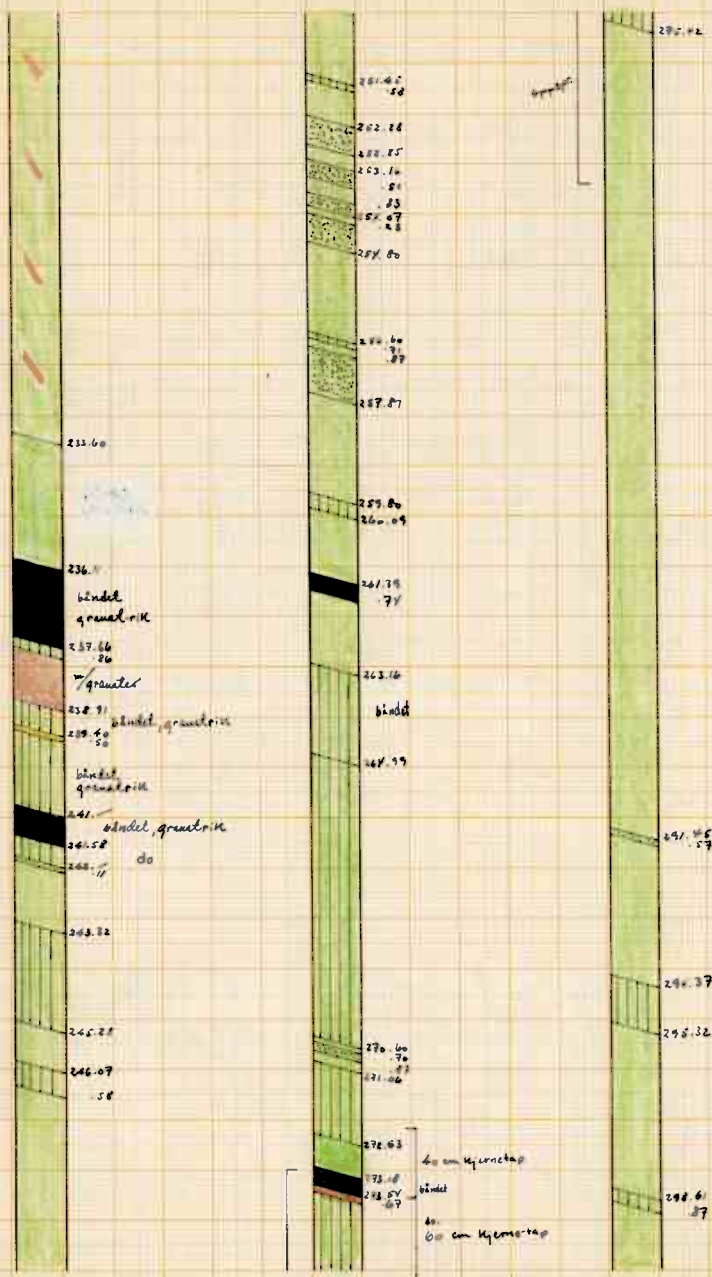
222.20













7.20 ucin
7.45 ucin
7.93 blatt-auf
8.12 ucin

13.34



30.40

33.1

42.00

44.20

45.10



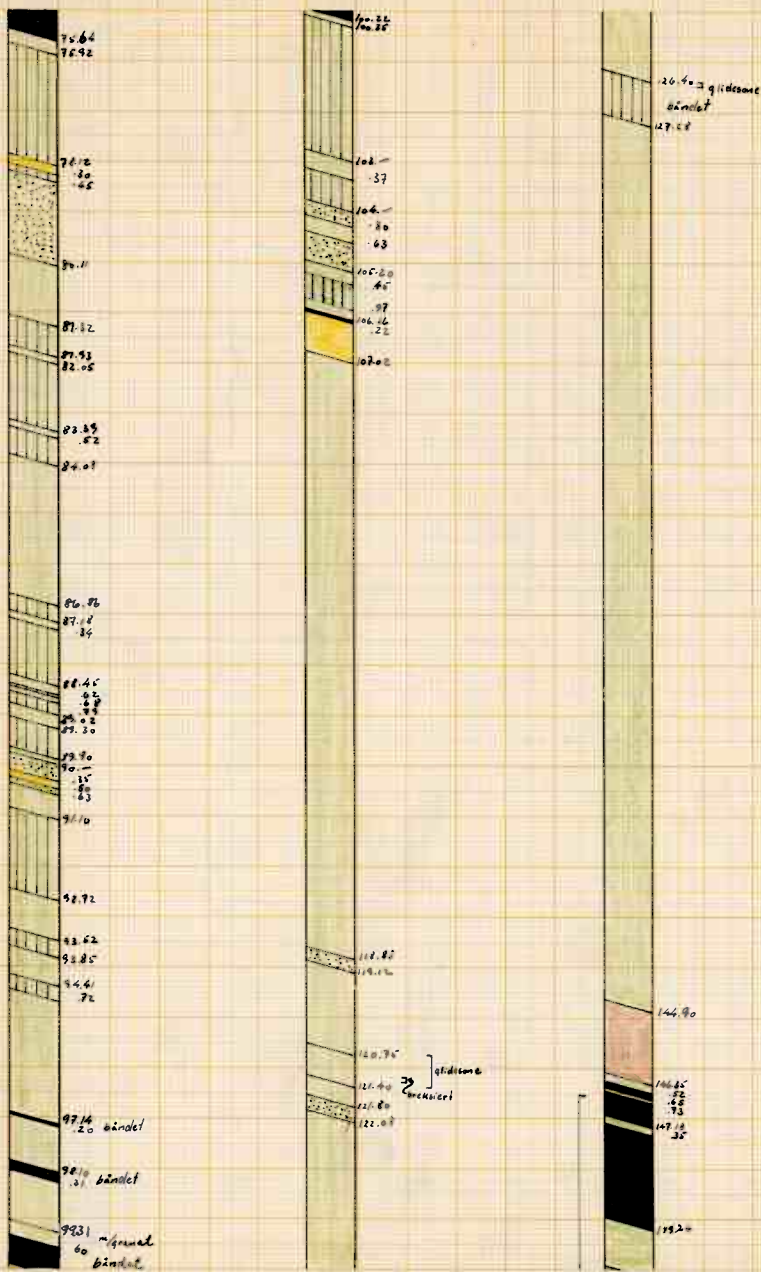
57.40

62.25
.82 Avarik (norm. ind.)

62.70
.90 SHARON-MALEN

68.77
69.15

73.75
bändel



bändel
malin

159.22

152.55

152.98

152.33

154.29

155.49

158

156.38

156

156

157.22

157.75

158.84

159.13

granul-fossiler

162.30

162.34

162.44

162.50

163.71

164.90

166.29

167.42

168.54

168

bändel

170.38

170.85

173.33

174.92

175

175.19

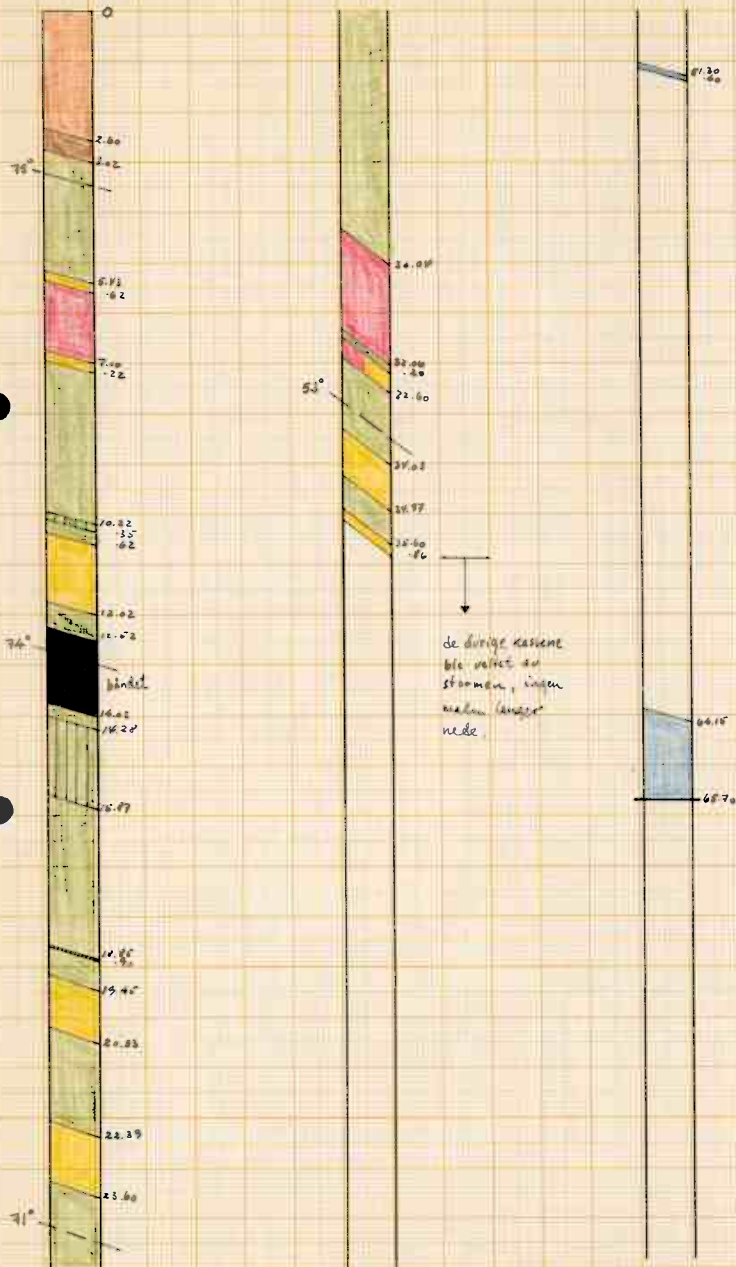
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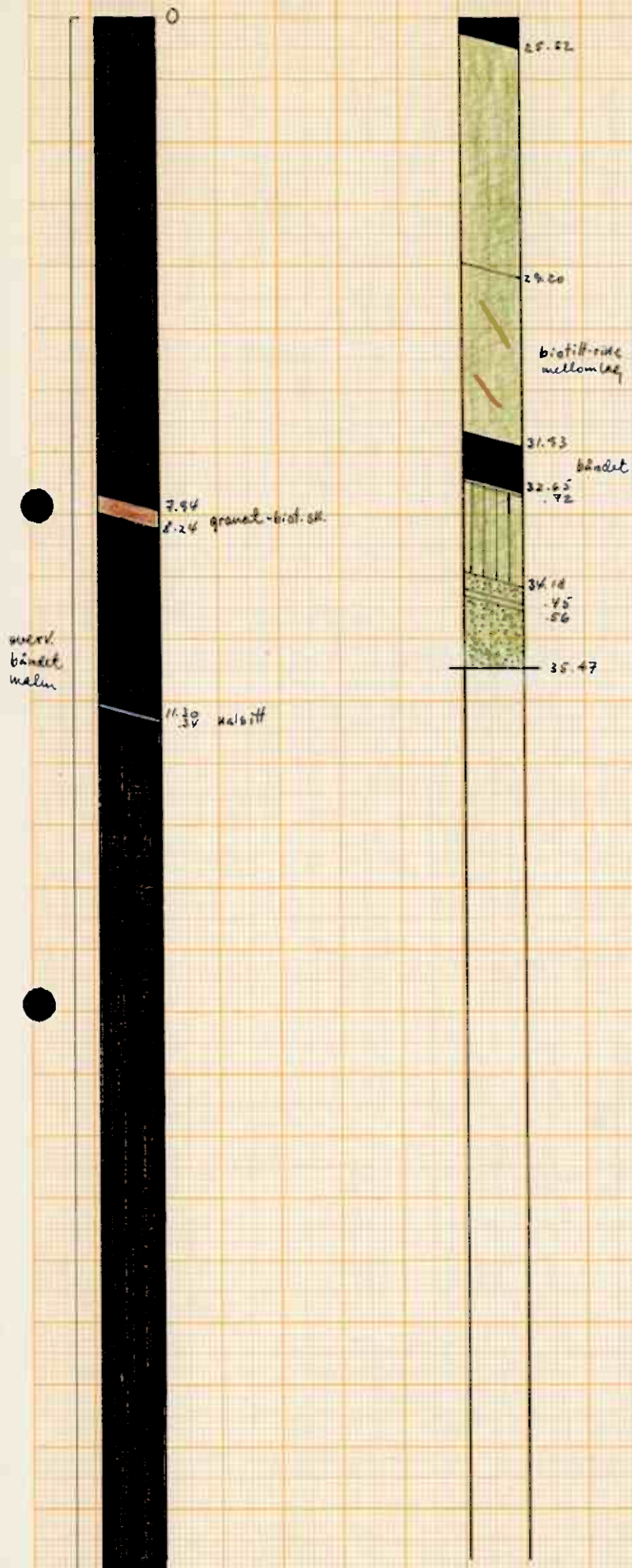
176.93

177.1

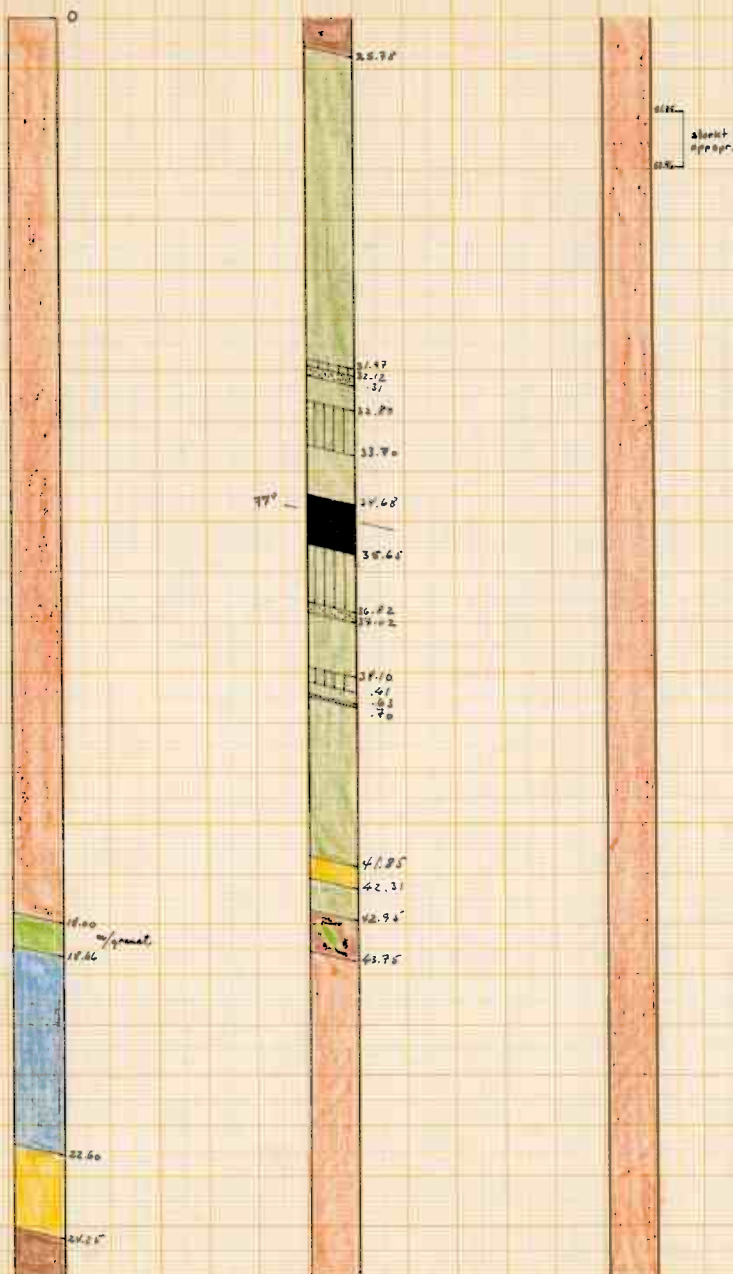
177.93

178.75

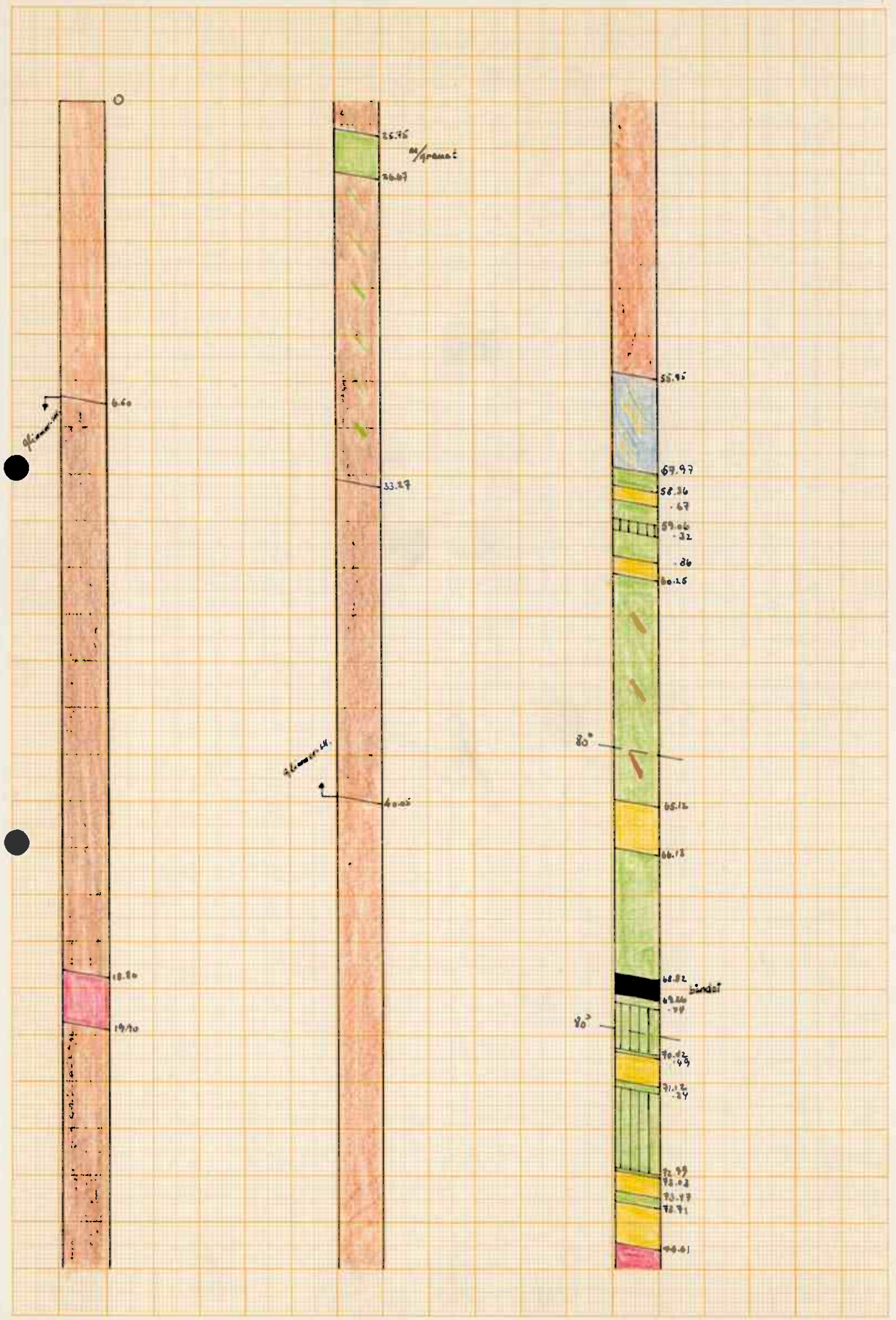


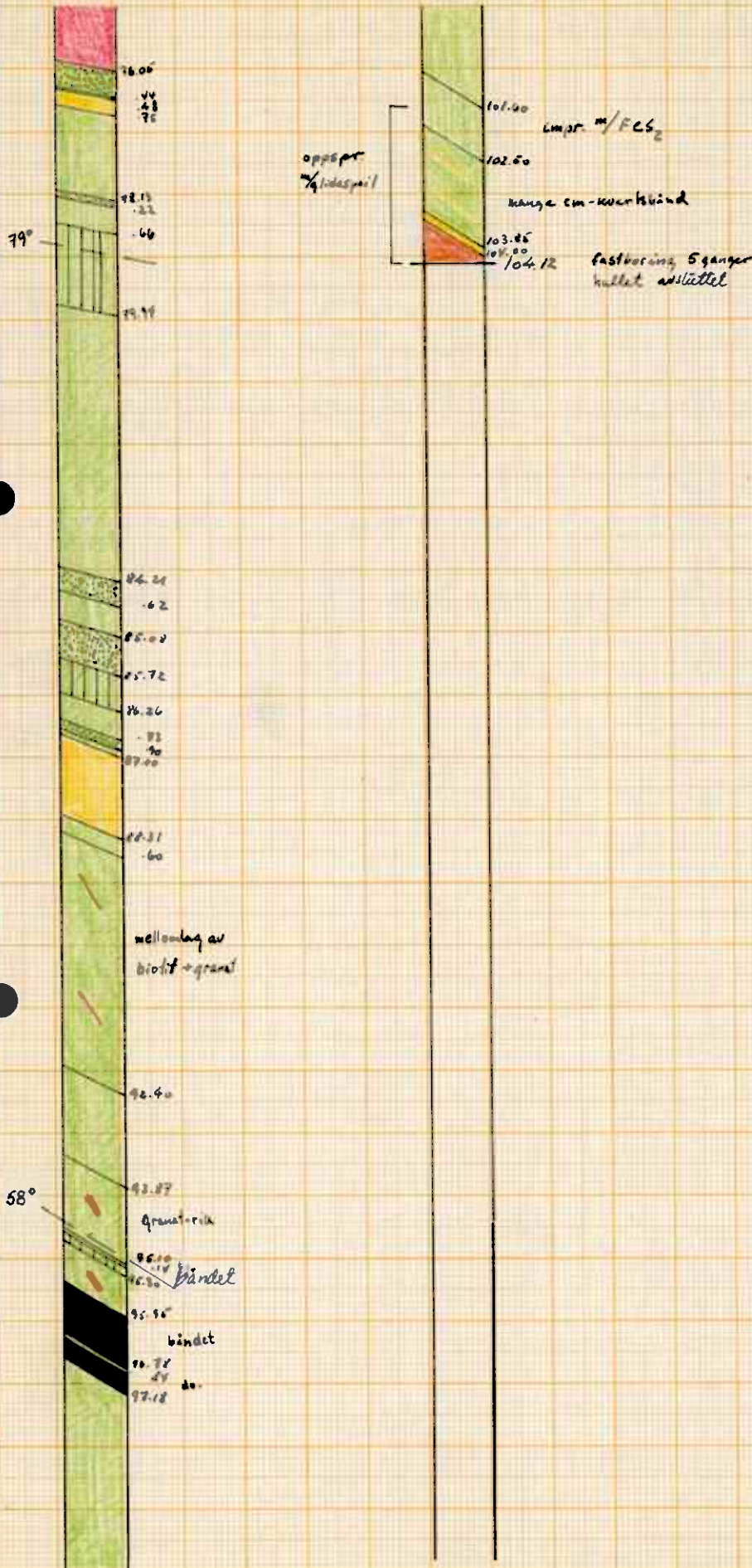


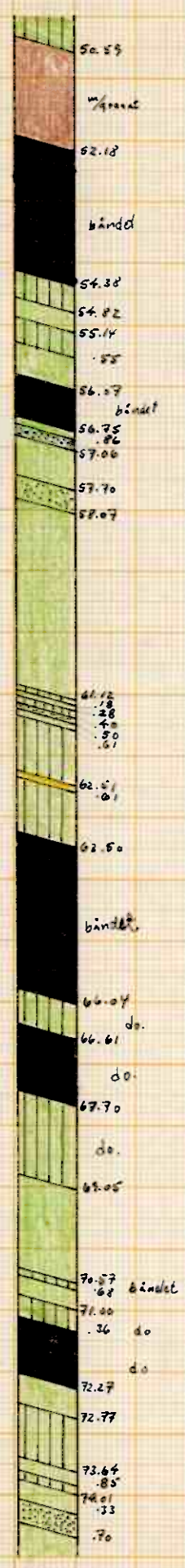
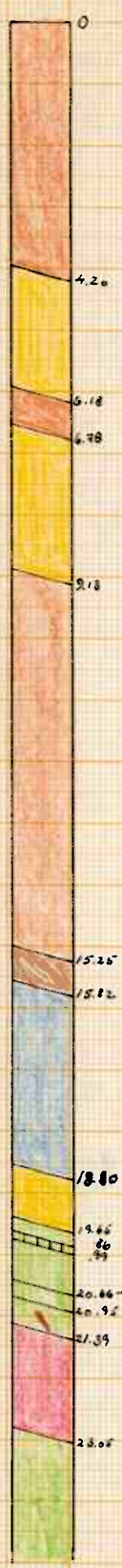
20/1-63 12



92.73







starkt
oppsett

19. 10. 1900

