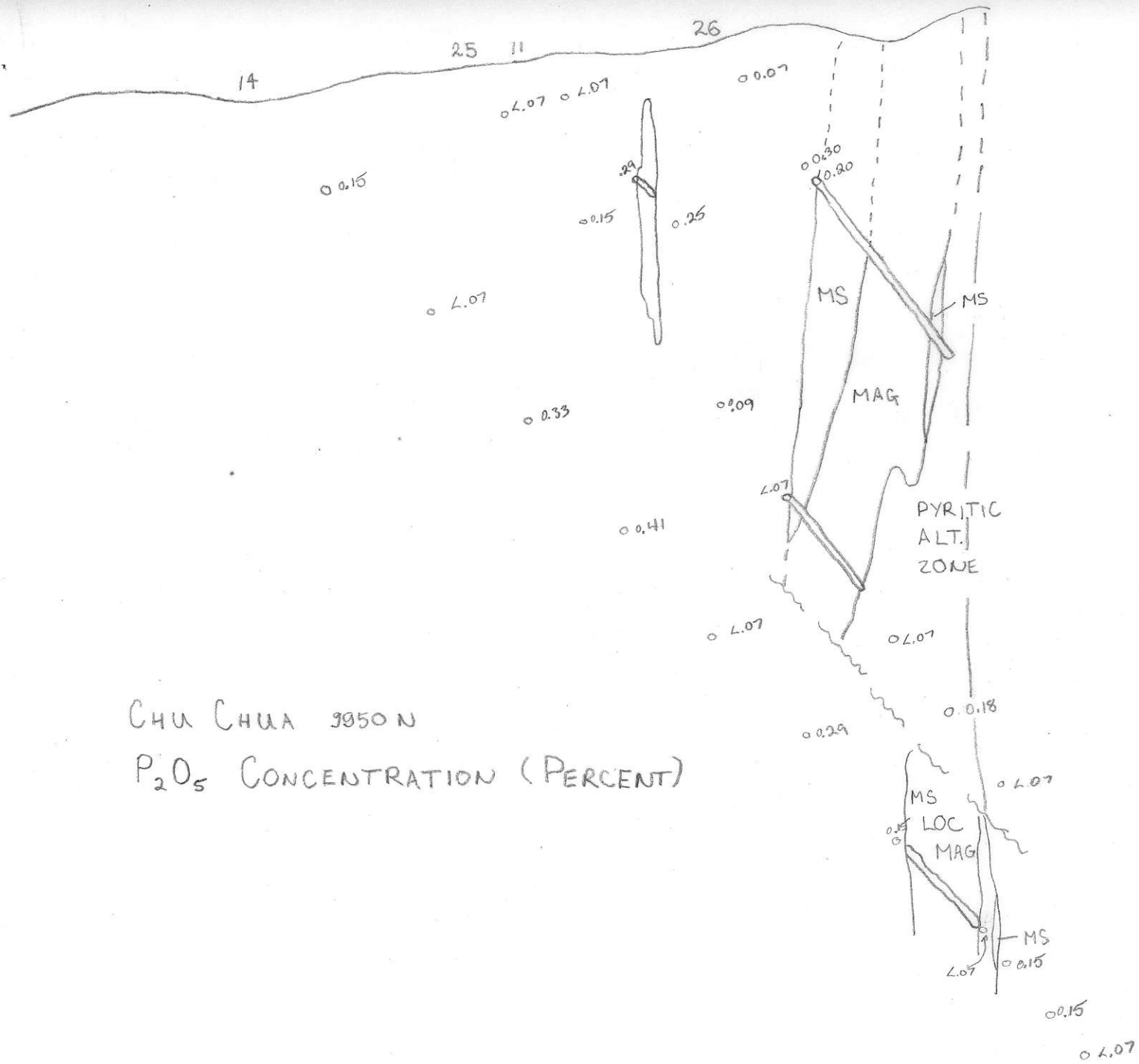


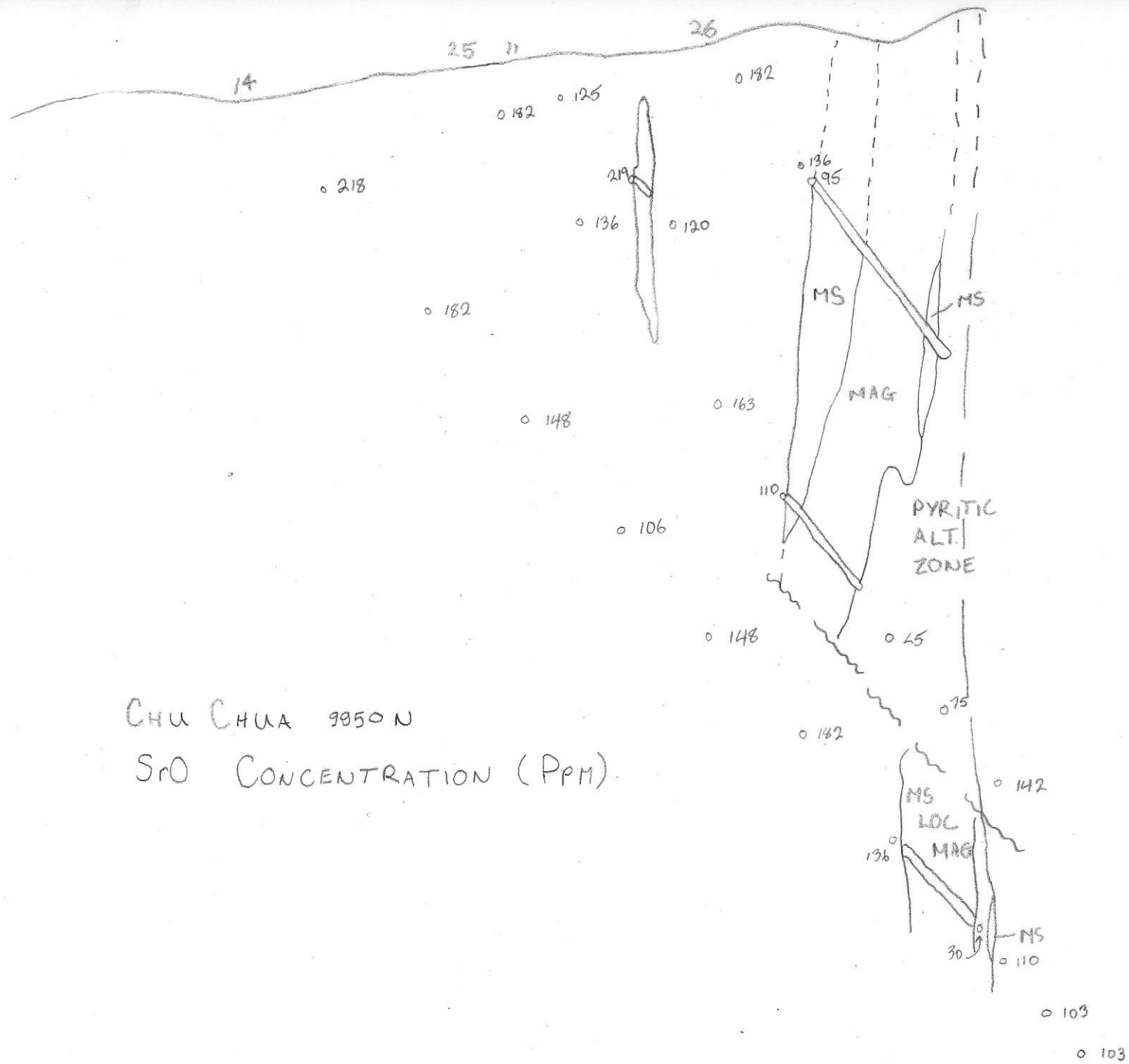
REFERENCE NUMBER	SAMPLE NUMBER	$K_2O + Na_2O$ (CaO)	Fe_2O_3 total $+\frac{1}{2}(CaO + MgO)$	Al_2O_3 / SiO_2
1 .	22369	2.094 (4.65)	20.60	0.3287
2 .	22370	2.264 (11.17)	20.60	0.3289
3 .	22371	3.546 (10.21)	18.80	0.2940
4 .	22374	3.183 (10.64)	15.12	0.3068
5 .	22372	3.743 (9.66)	17.60	0.2810
6 .	22373	2.776 (10.41)	20.34	0.3269
8 .	22375	2.448 (6.30)	18.23	0.3207
9 . OFF SCALE	22376	0.055 (0.91)	21.07	0.0923 ✓
11 .	22377	1.582 (8.11)	17.78	0.3221
12 .	22378	2.342 (9.45)	18.40	0.2961
13 .	22379	2.486 (8.33)	18.51	0.2984
14 .	22381	2.588 (11.90)	20.50	0.3189
15 .	22382	2.866 (10.64)	18.15	0.3060
16 .	22383	3.885 (9.50)	19.19	0.2957
17 .	22384	2.107 (7.64)	17.46	0.3423
19 . OS	22385	0.085 (6.64)	18.48	0.0102 ✓
20 .	22386	0.395 (7.12)	17.16	0.3016
21 .	22387	2.983 (10.69)	18.85	0.2853
23 .	22389	3.045 (9.68)	20.22	0.3316
24 .	22390	3.719 (7.39)	19.16	0.3237
25 .	22391	2.058 (4.99)	15.97	0.3063
26 .	22393	3.277 (6.93)	18.99	0.3545
27 .	22394	2.431 (7.55)	15.86	0.3686
28 .	22395	1.170 (4.69)	15.58	0.3638
29 .	22396	3.209 (9.72)	19.60	0.3366
31 .	22397	3.568 (9.27)	20.44	0.3356
32 .	22398	2.242 (10.94)	19.95	0.3307
33 . OS	22399	1.758 (11.91)	20.11	0.3122
35 . OS	22401	0.086 (0.59)	6.42	0.1243 ✓
36 . OS	22402	0.083 (0.07)	5.42	0.0447 ✓
1b .	22403	3.912 (6.86)	16.40	0.3135
2b .	22404	3.421 (7.73)	16.44	0.3334
3b .	22405	1.230 (3.72)	22.92	0.3574
4b . OS	22406	0.984 (0.21)	6.96	0.0990 ✓
5b . OS	22407	2.172 (1.82)	4.77	0.1290 ✓
6b .	22408	1.557 (8.81)	17.87	0.2848
7b .	22410	2.901 (10.78)	18.19	0.3358
11b . OS	22411	0.613 (0.10)	6.33	0.0541 ✓
12b .	22412	4.941 (6.45)	16.51	0.3060
13b .	22413	3.290 (10.07)	18.12	0.3166
14b .	22414	3.835 (8.72)	18.08	0.3351
15b .	22415	2.826 (8.75)	19.55	0.3385
16b .	22416	2.725 (11.31)	20.03	0.3199
17b .	22417	3.423 (10.49)	19.75	0.3254
20b .	22419	2.593 (10.44)	19.96	0.3220
21b .	22420	2.894 (11.42)	20.30	0.3420
23b .	22421	1.735 (13.47)	19.24	0.3195
24b .	22422	2.395 (10.96)	19.35	0.3178

REFERENCE NUMBER	SAMPLE NUMBER	$K_2O + Na_2O$ (CaO)	Fe_2O_3 Total $+ \frac{1}{2}(CaO + MgO)$	Al_2O_3 / SiO_2
25b.	22423	3.280 (10.36)	19.790	0.3195
26b.	22424	2.824 (10.83)	19.920	0.3217
WP 27b. .05	22425	0.076 (0.33)	20.660	0.0714 -
WP 28b. .05	22426	0.019 (0.12)	31.085	0.0032 -
WP 29b. .05	22427	1.260 (0.72)	5.140	0.0918 -
30b.	22428	3.097 (0.14)	7.915	0.1786 -
WP 31b. .05	22429	1.318 (0.60)	2.905	0.0700 -
32b.	22430	3.634 (9.44)	18.520	0.3306
33b.	22431	3.5770 (7.80)	17.975	0.3172
35b.	22432	3.883 (7.31)	14.715	0.2554
36b.	22433	3.823 (7.28)	17.950	0.3218
37	22260	3.091	20.74	0.333
38	22261	0.816	2.96	0.065
39	22262	2.762	16.59	0.274

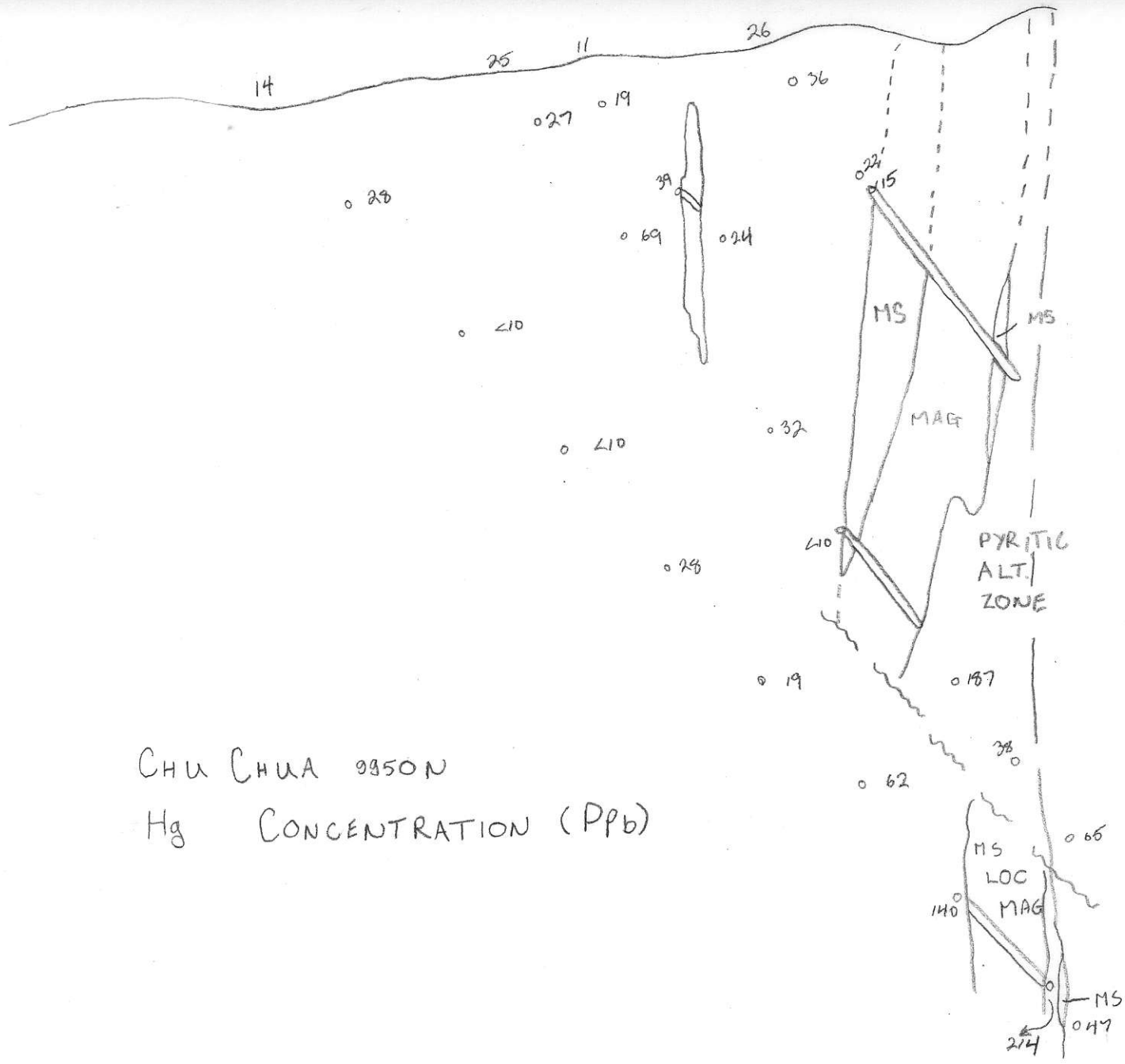


CHU CHUA 3950 N

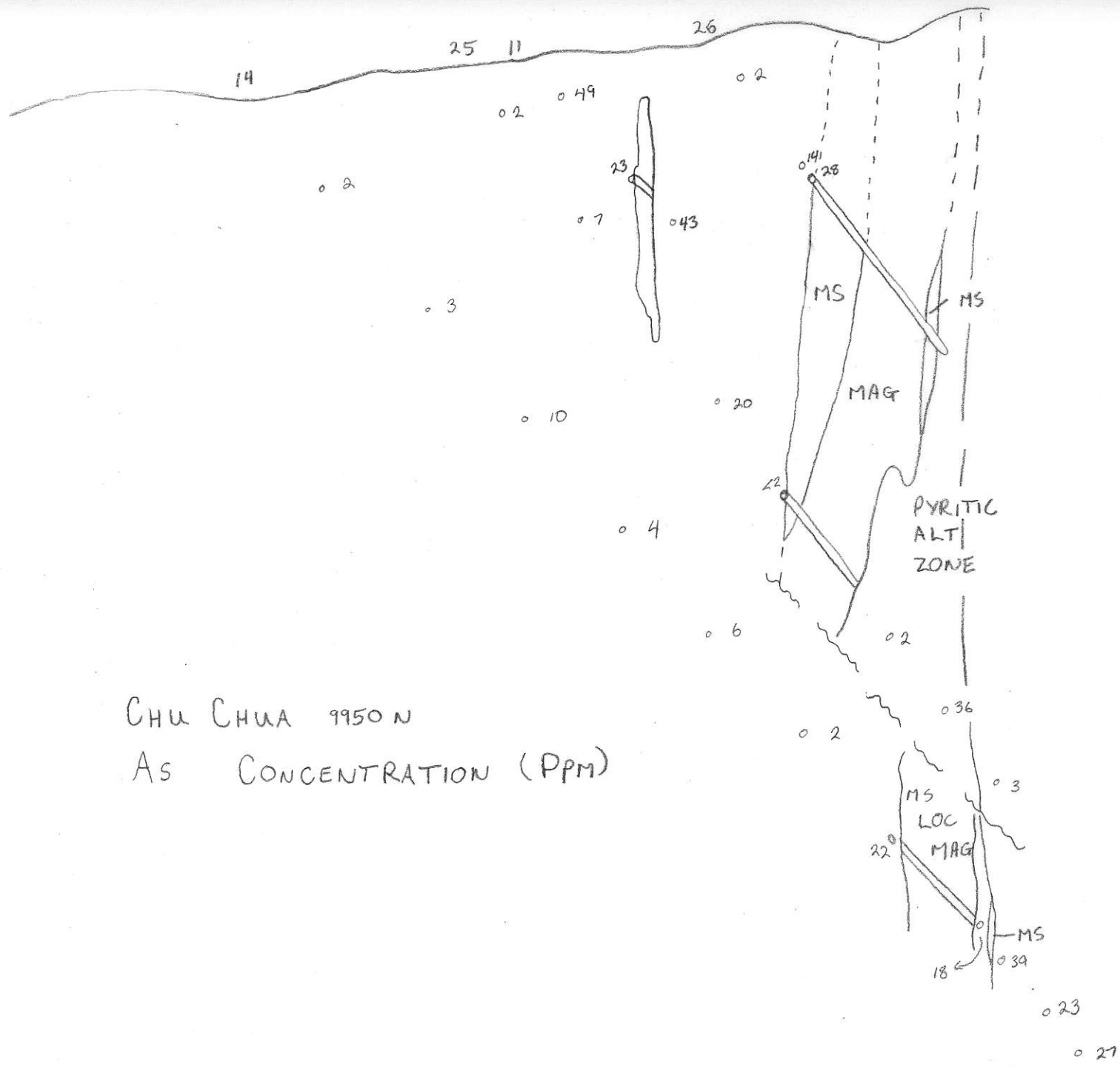
P₂O₅ CONCENTRATION (PERCENT)



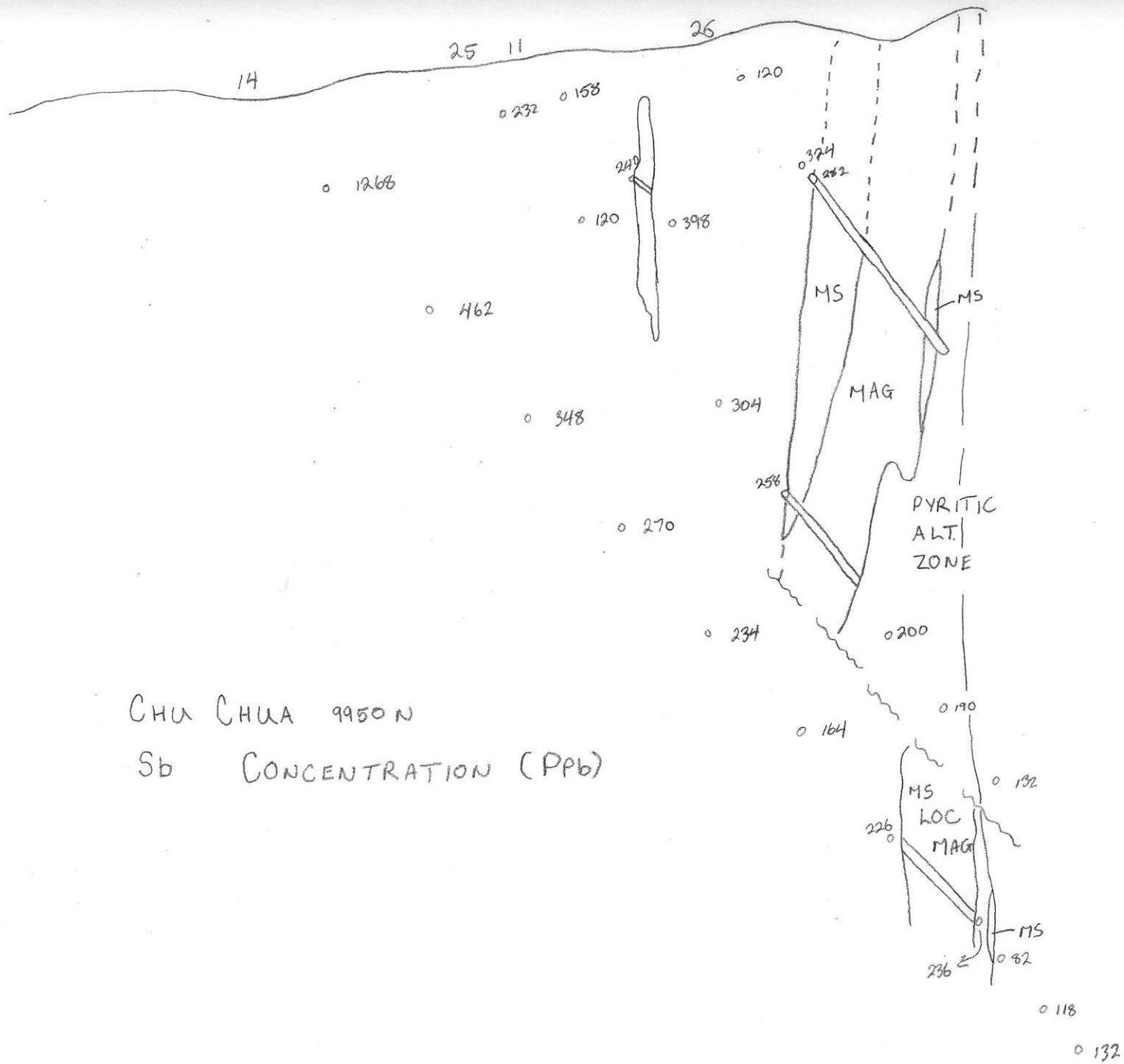
CHU CHUA 9850 N
 SiO CONCENTRATION (PPM)



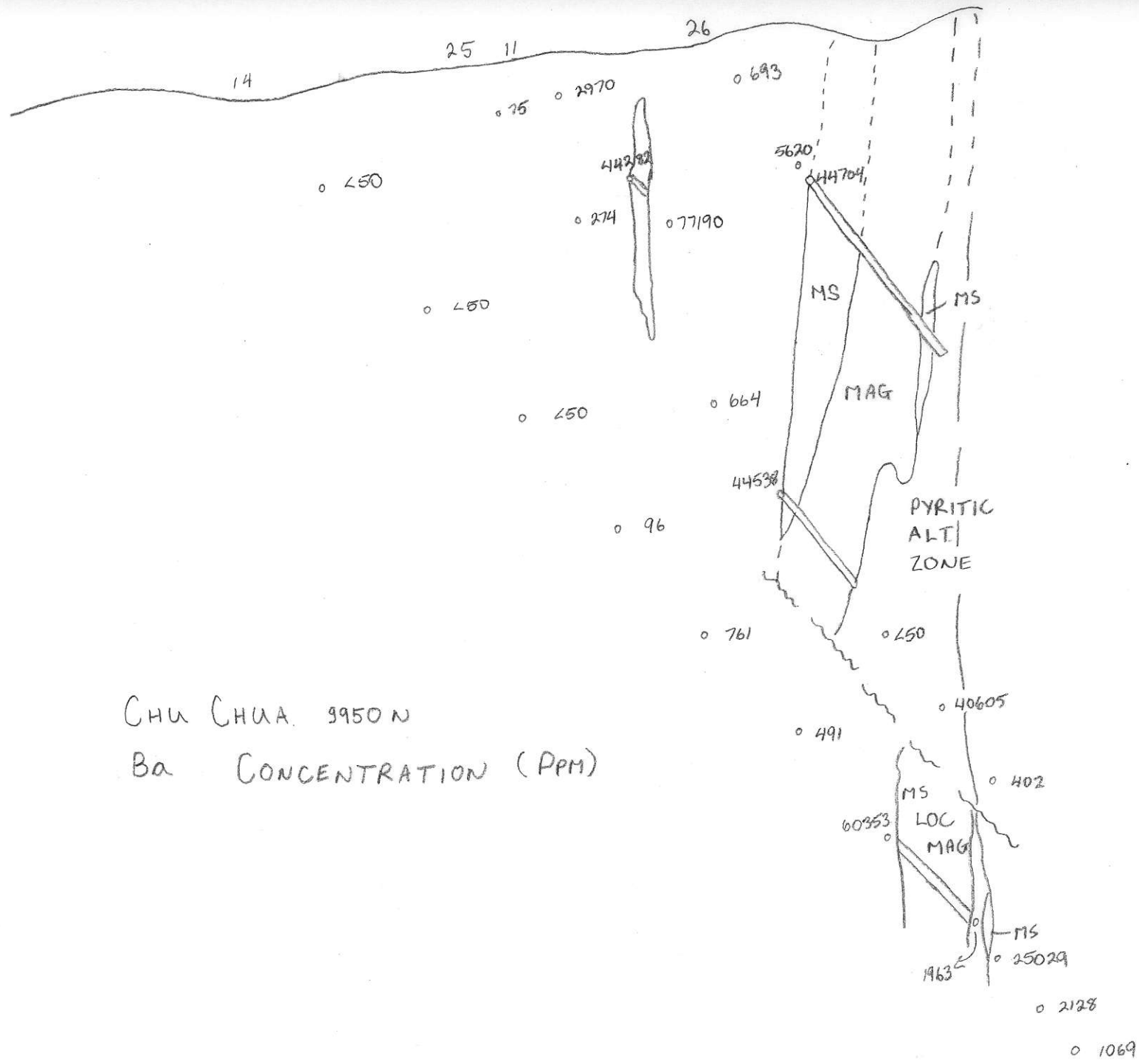
CHU CHUA 9850N
 Hg CONCENTRATION (PPb)



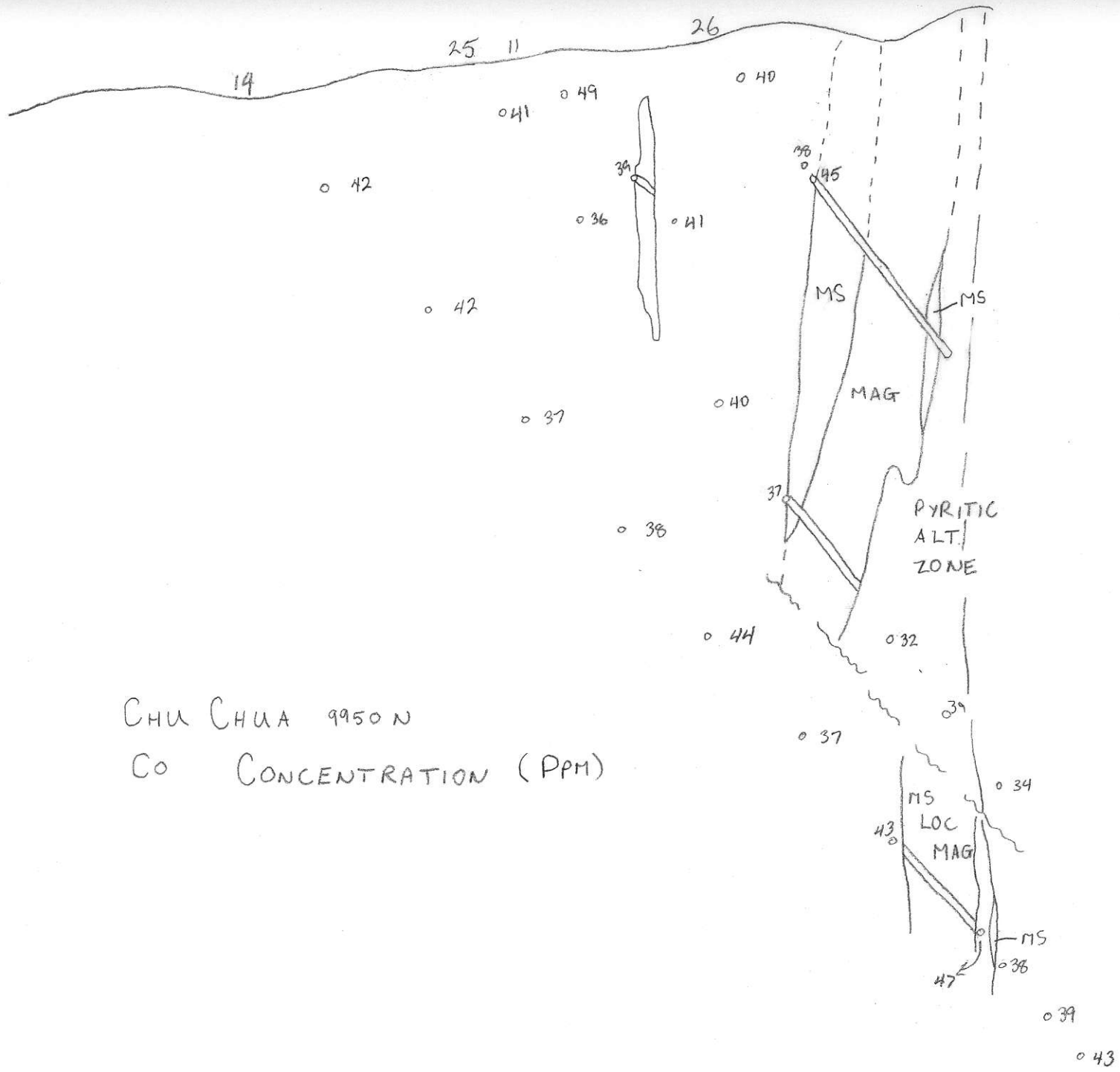
CHU CHUA 9950 N
 AS CONCENTRATION (PPM)



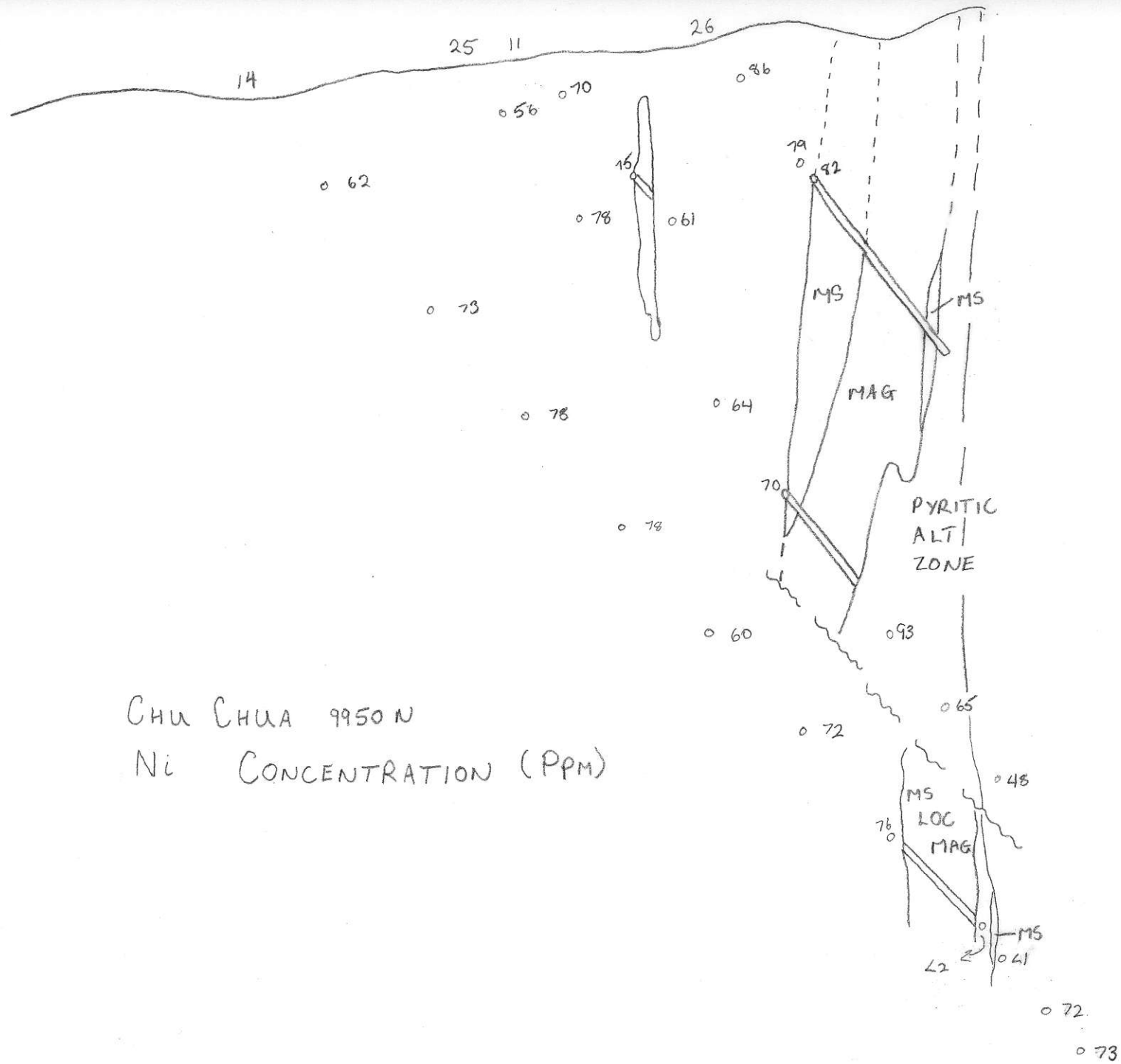
CHU CHUA 9950N
 Sb CONCENTRATION (PPb)



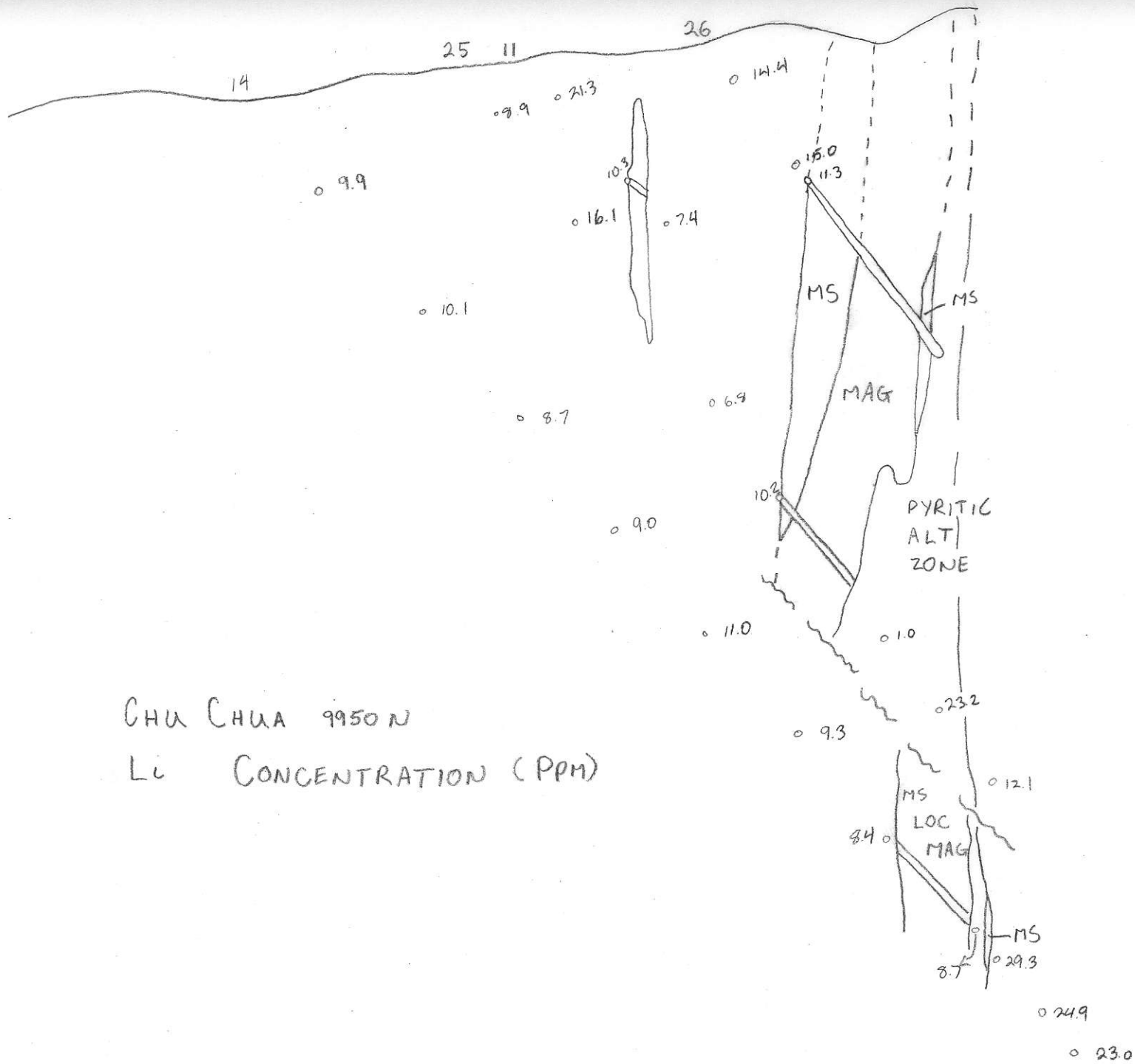
CHU CHUA, 9950 N
 Ba CONCENTRATION (PPM)



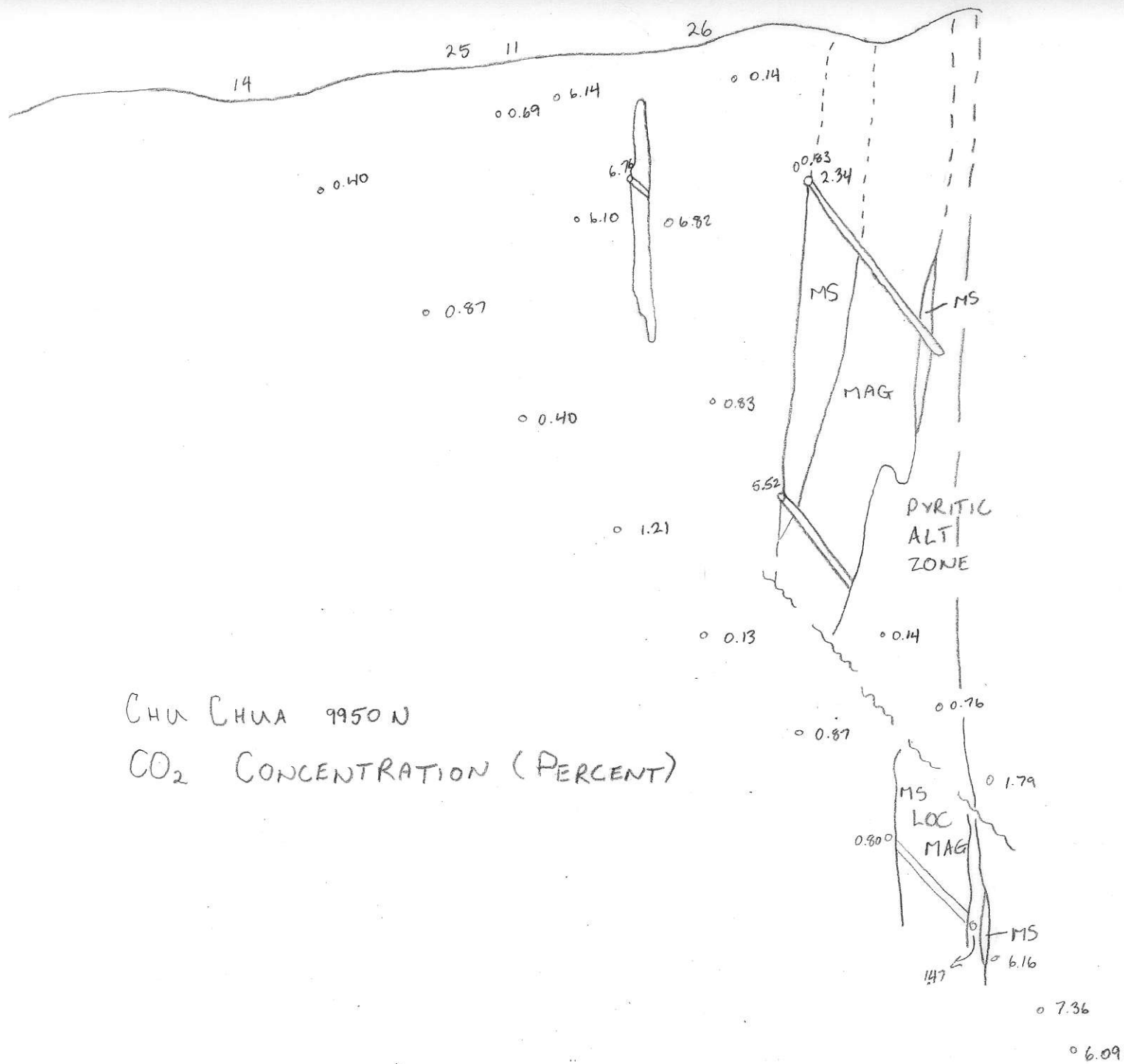
CHU CHUA 9950 N
 CO CONCENTRATION (PPM)

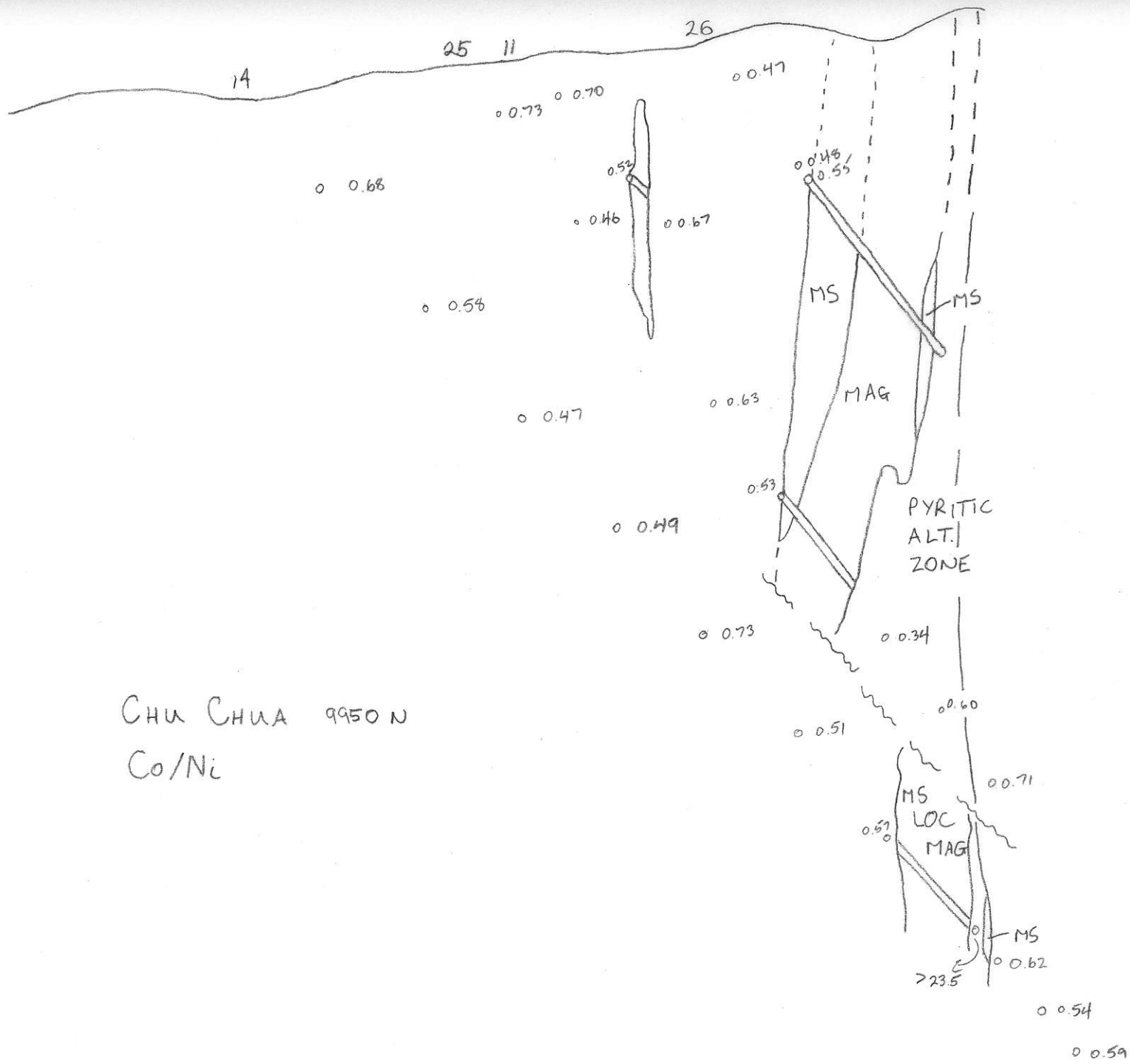


CHU CHUA 9950 N
 Ni CONCENTRATION (PPM)

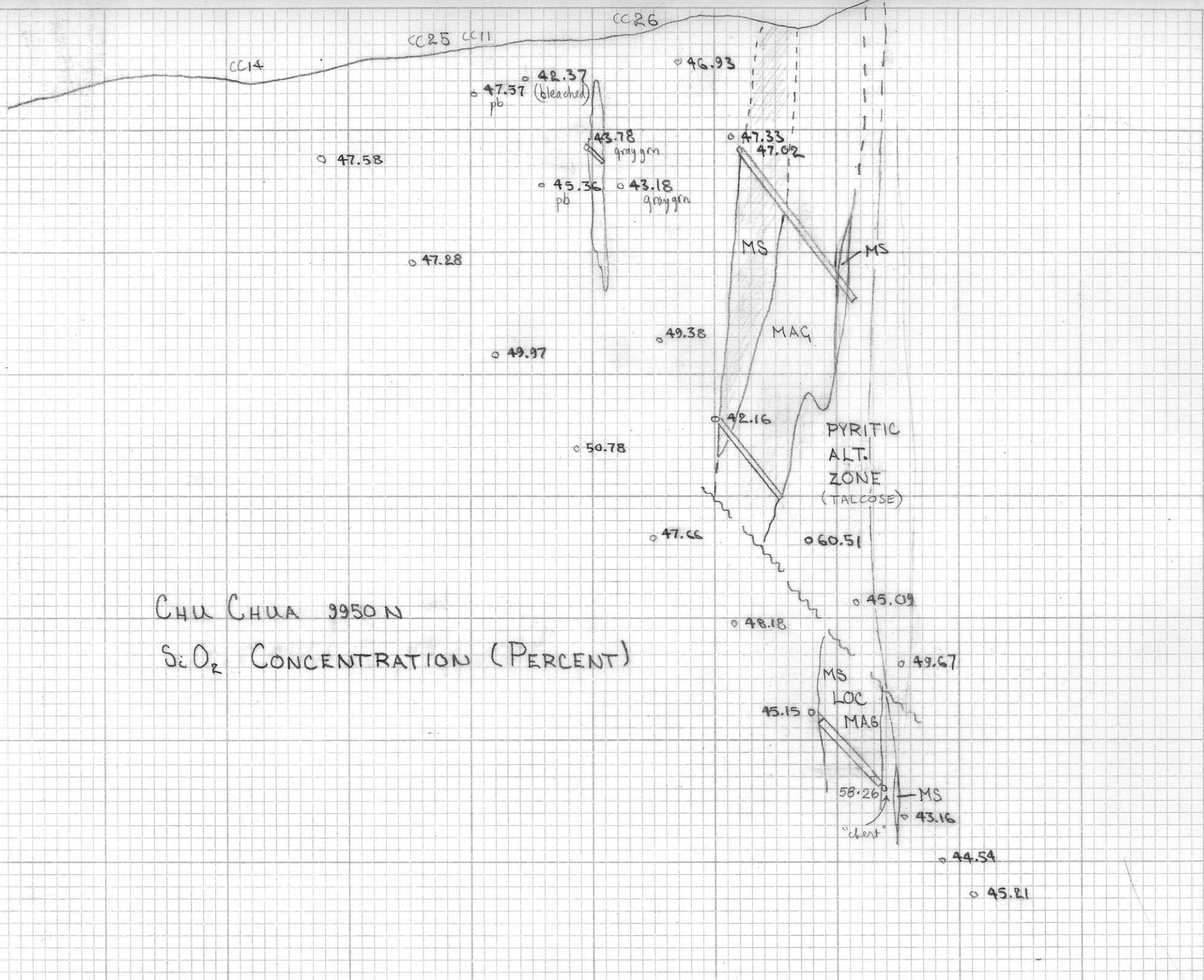


CHU CHUA 9950N
 LI CONCENTRATION (PPM)



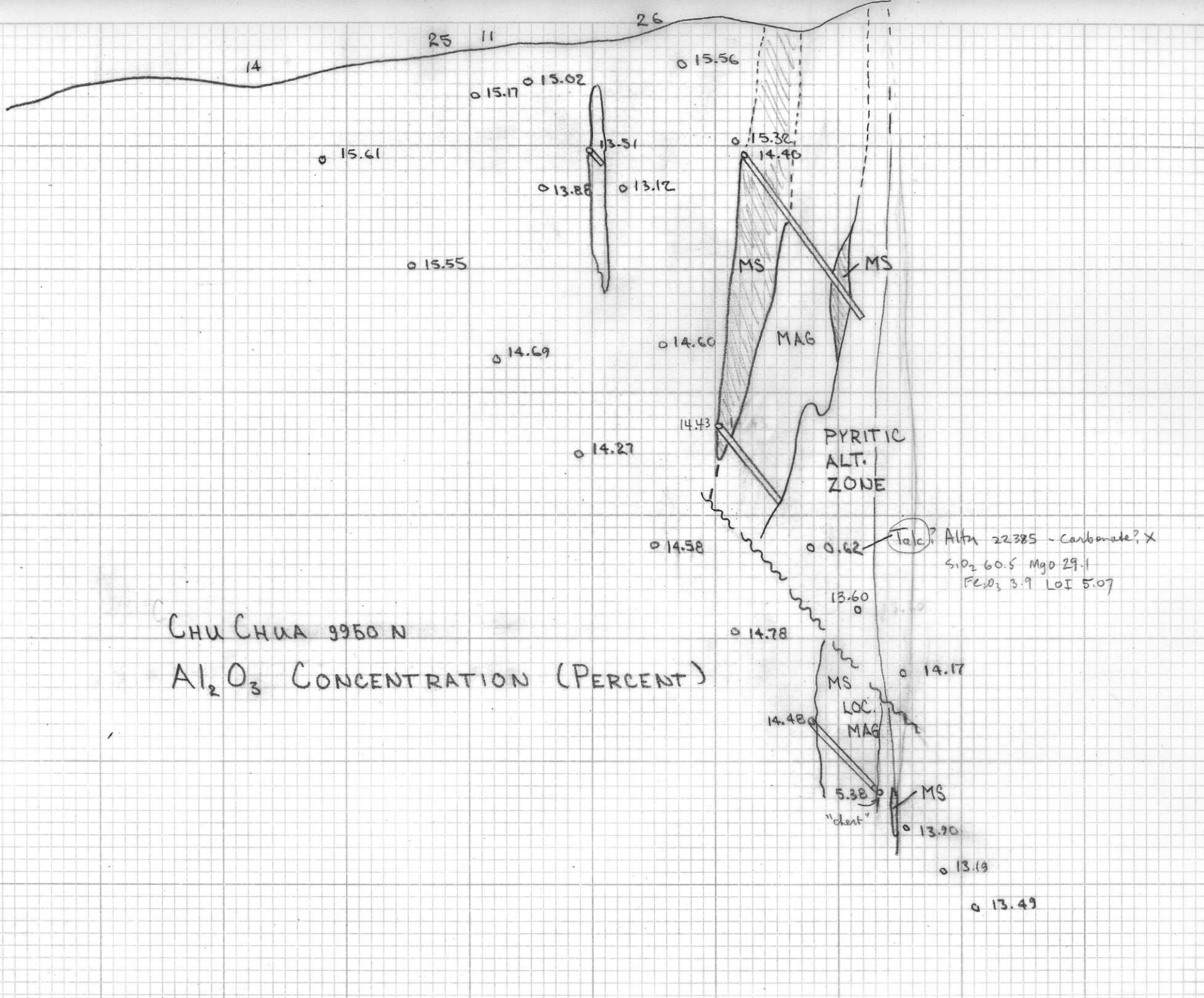


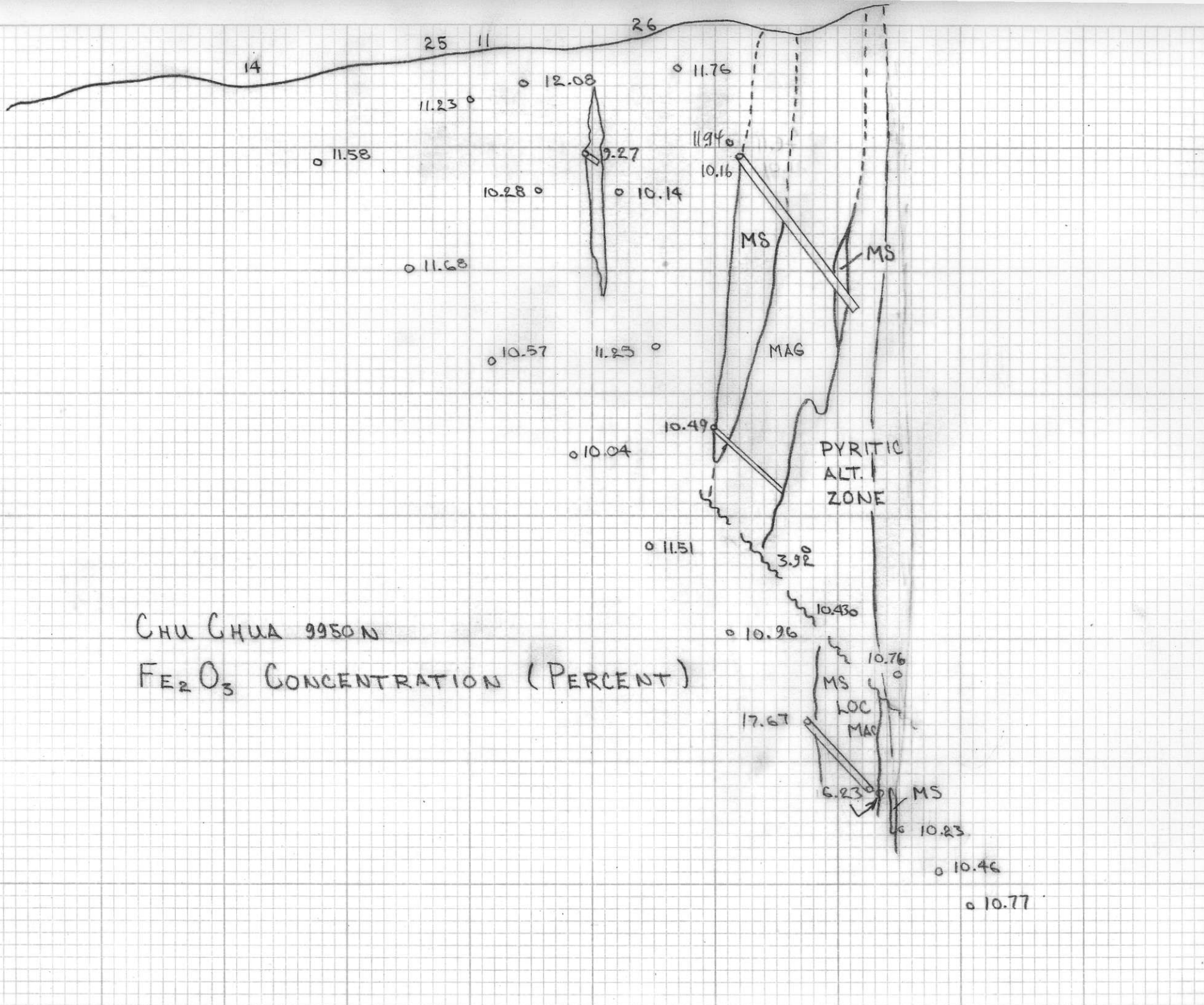
CHU CHUA 9950 N
 Co/Ni



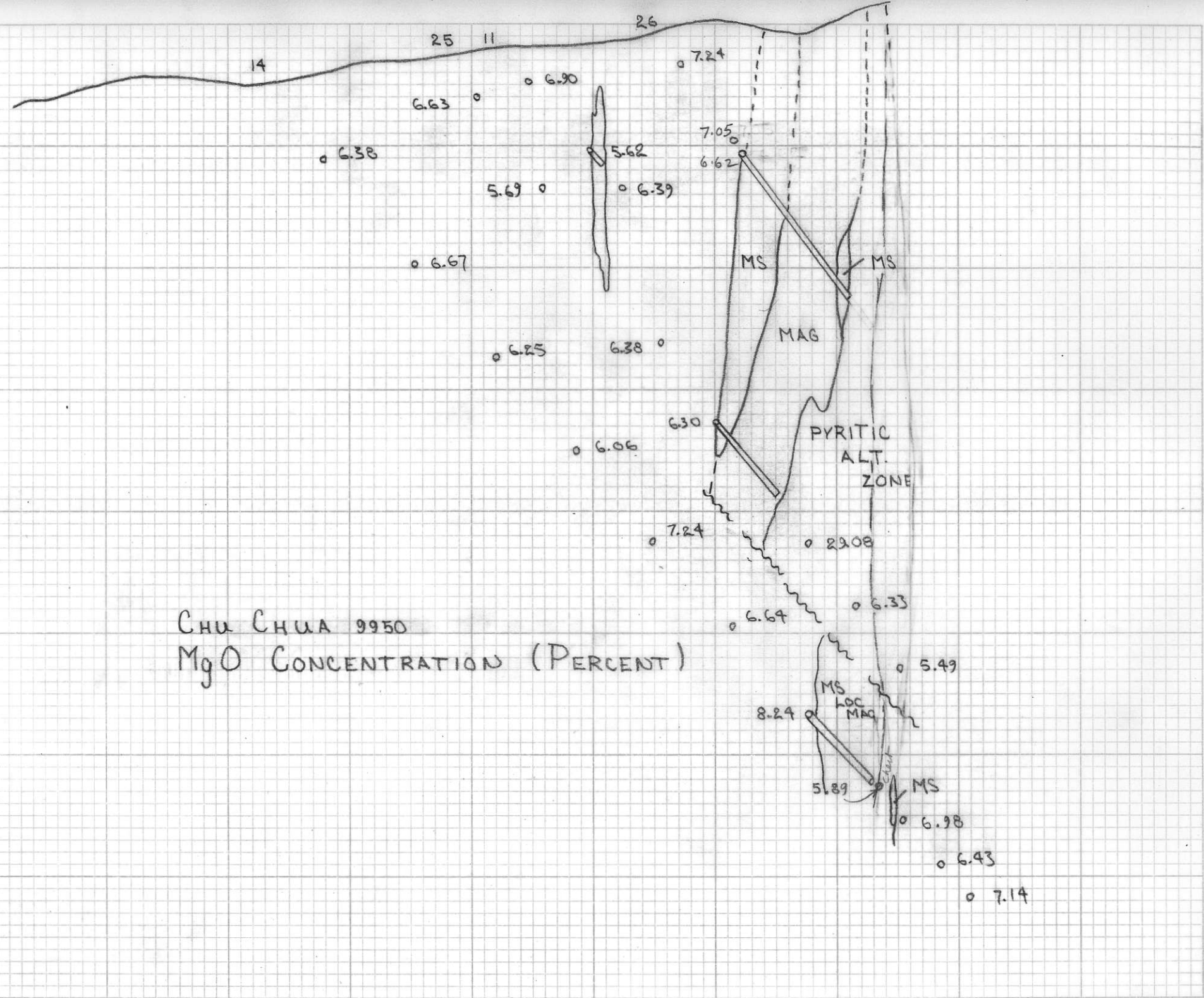
CHU CHUA 9950 N

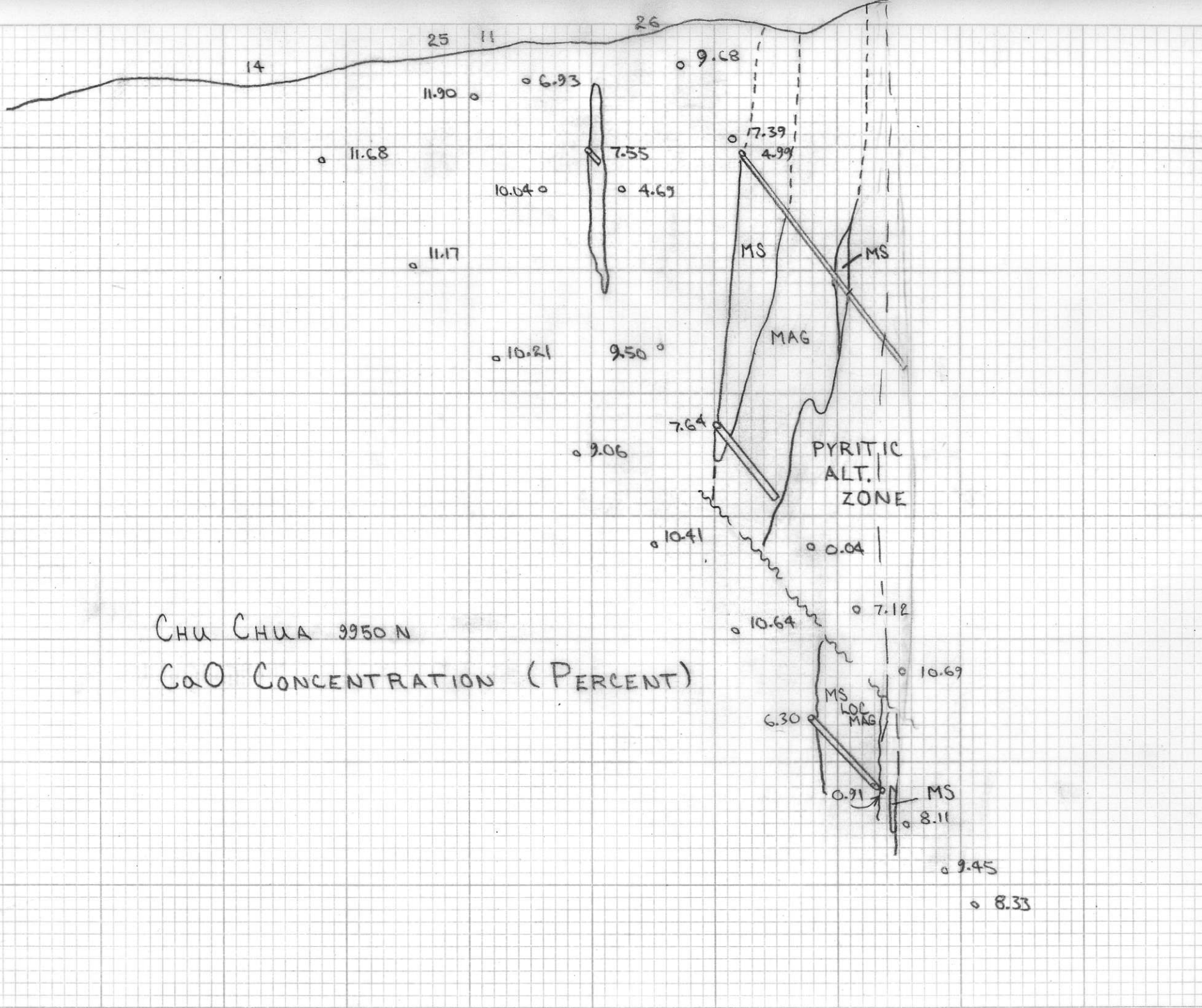
Al₂O₃ CONCENTRATION (PERCENT)



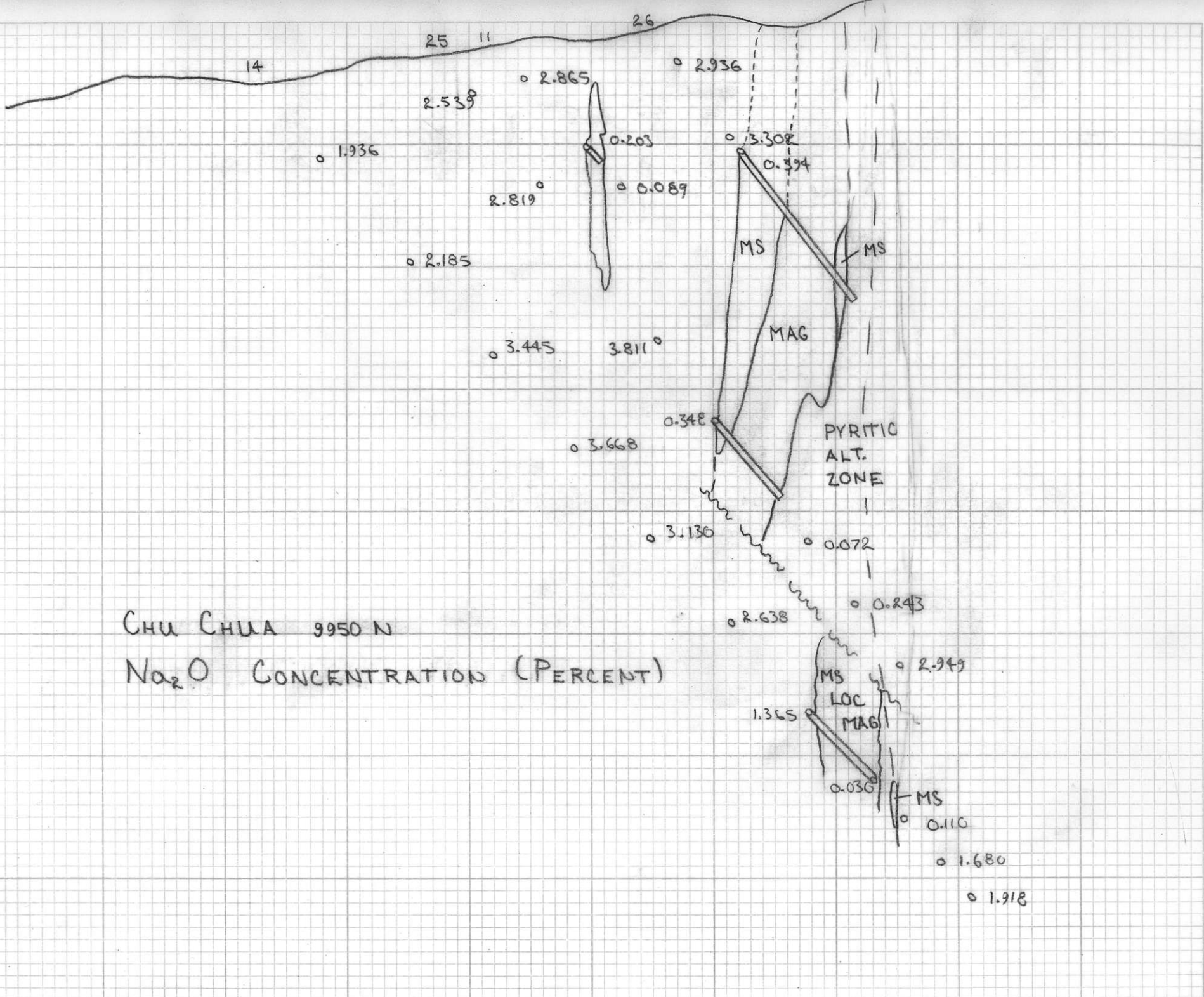


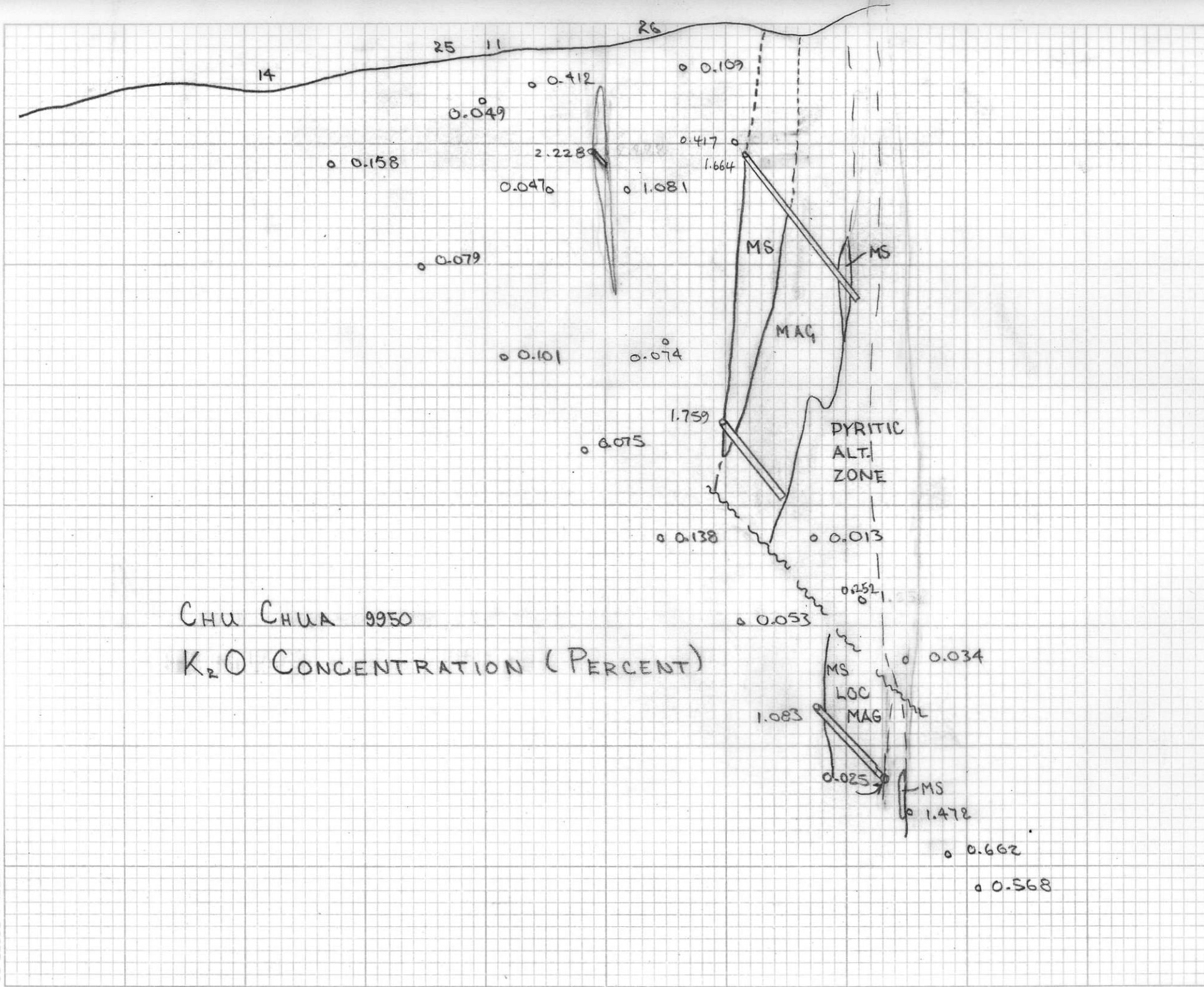
CHU CHUA 9950
MgO CONCENTRATION (PERCENT)



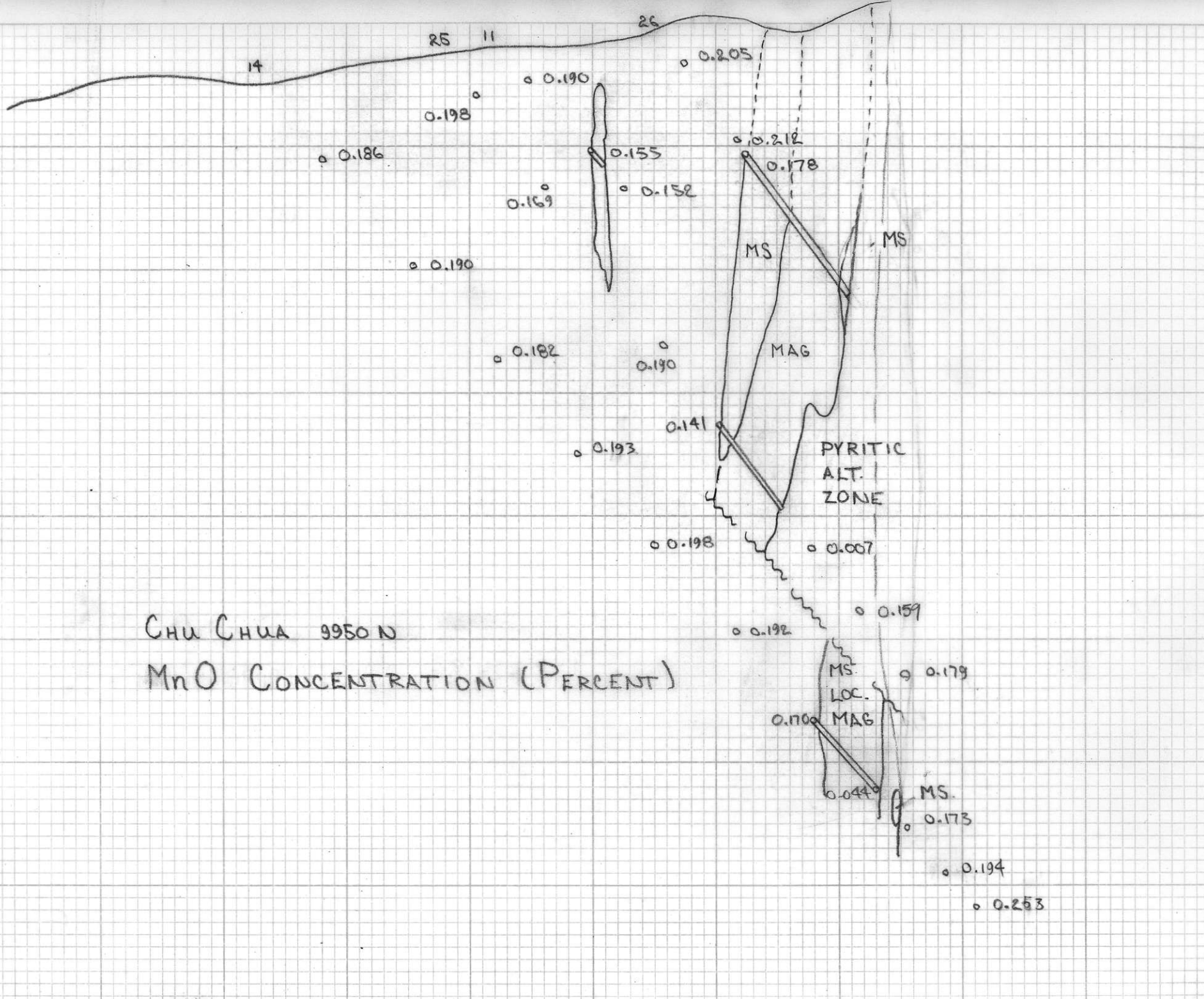


CHU CHUA 9950 N
CaO CONCENTRATION (PERCENT)



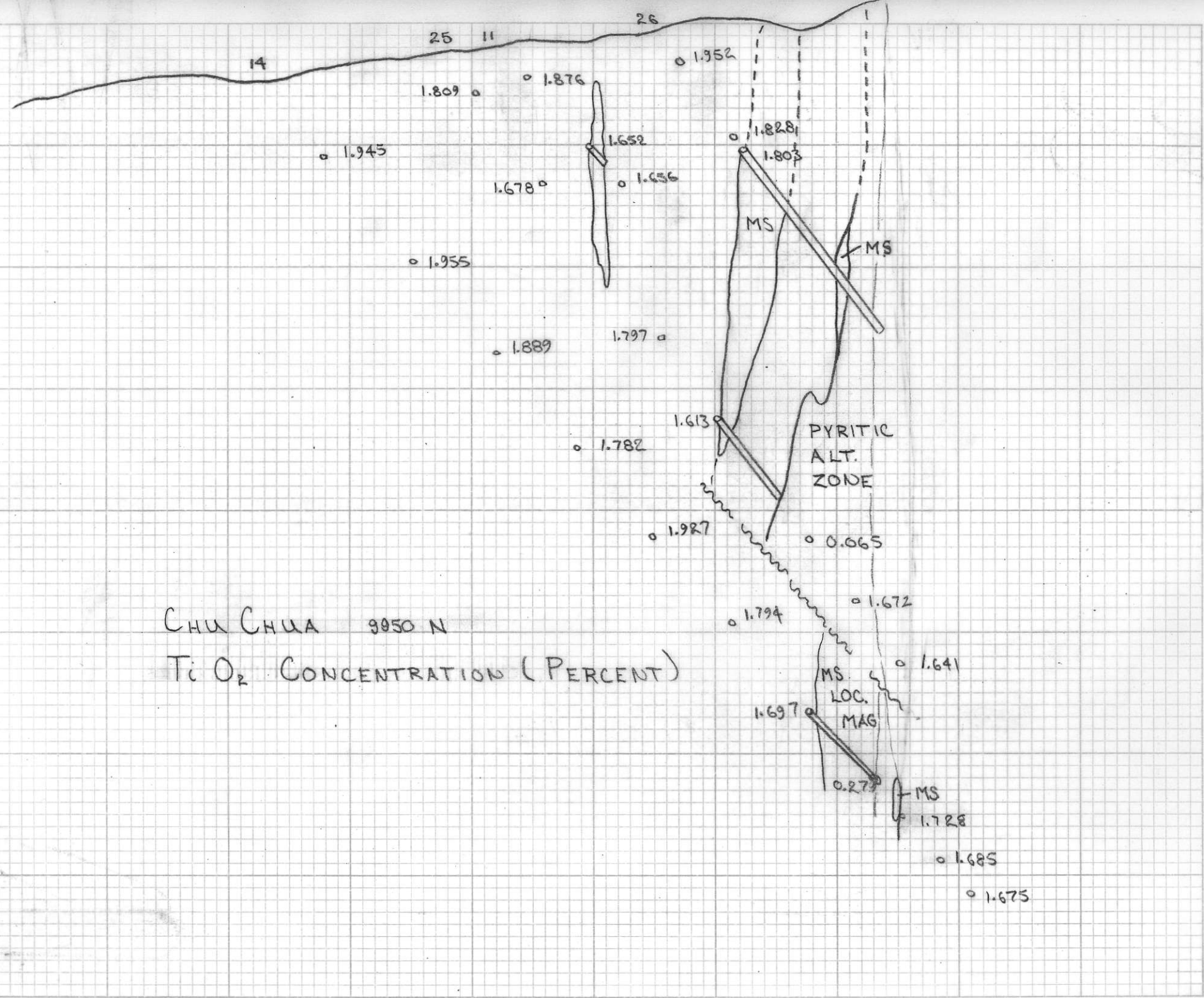


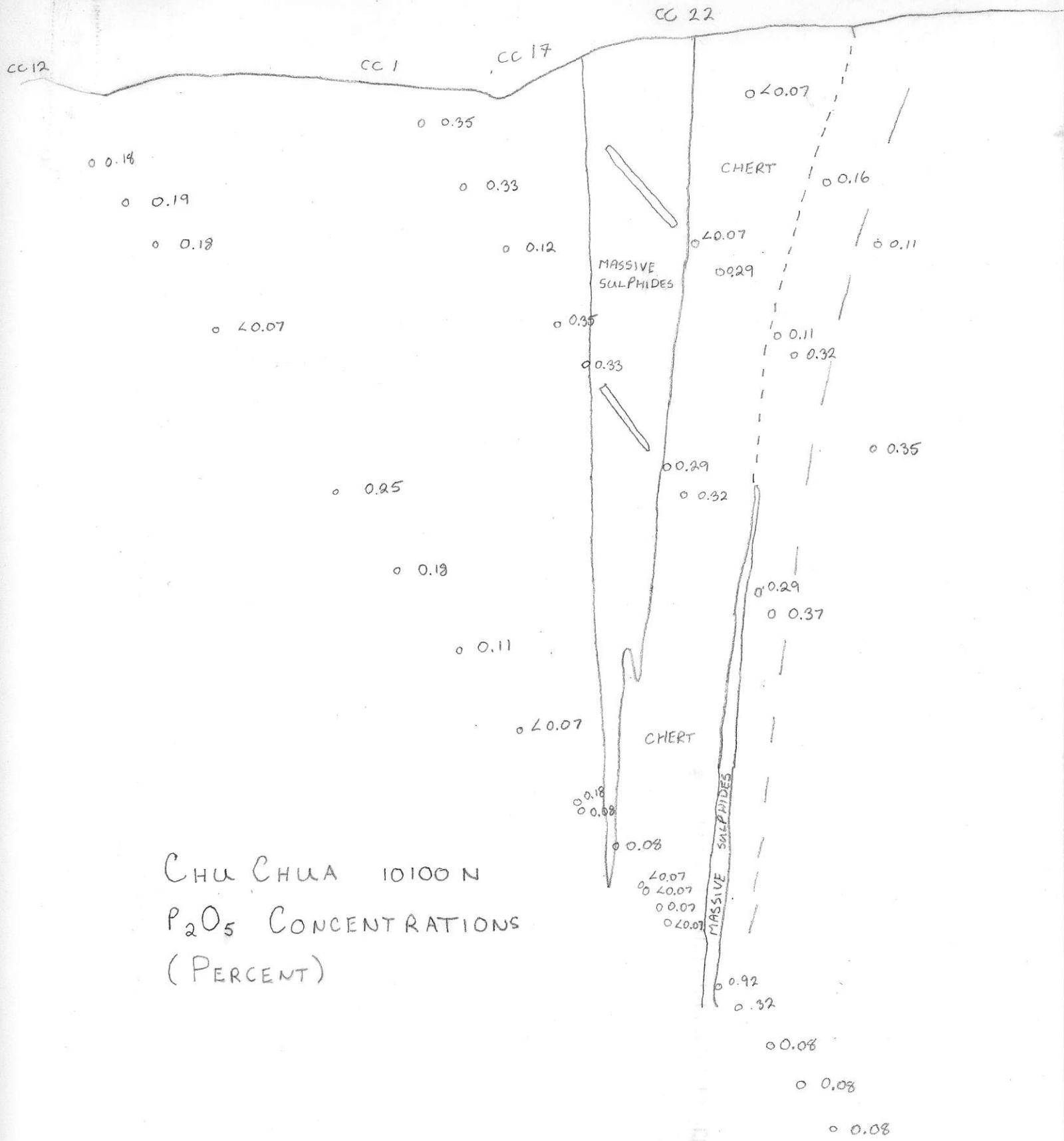
CHU CHUA 9950
K₂O CONCENTRATION (PERCENT)

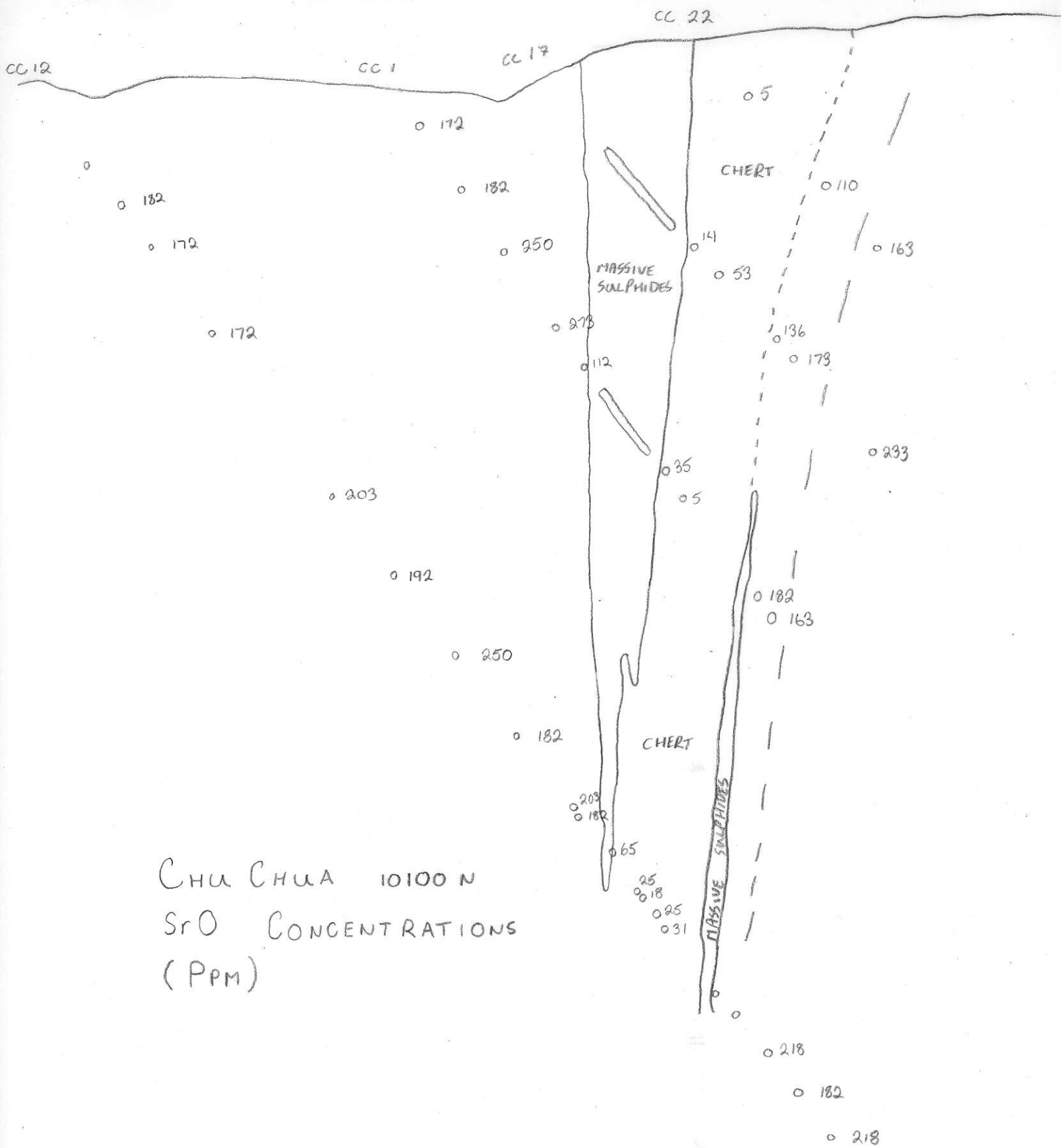


CHU CHUA 9950 N

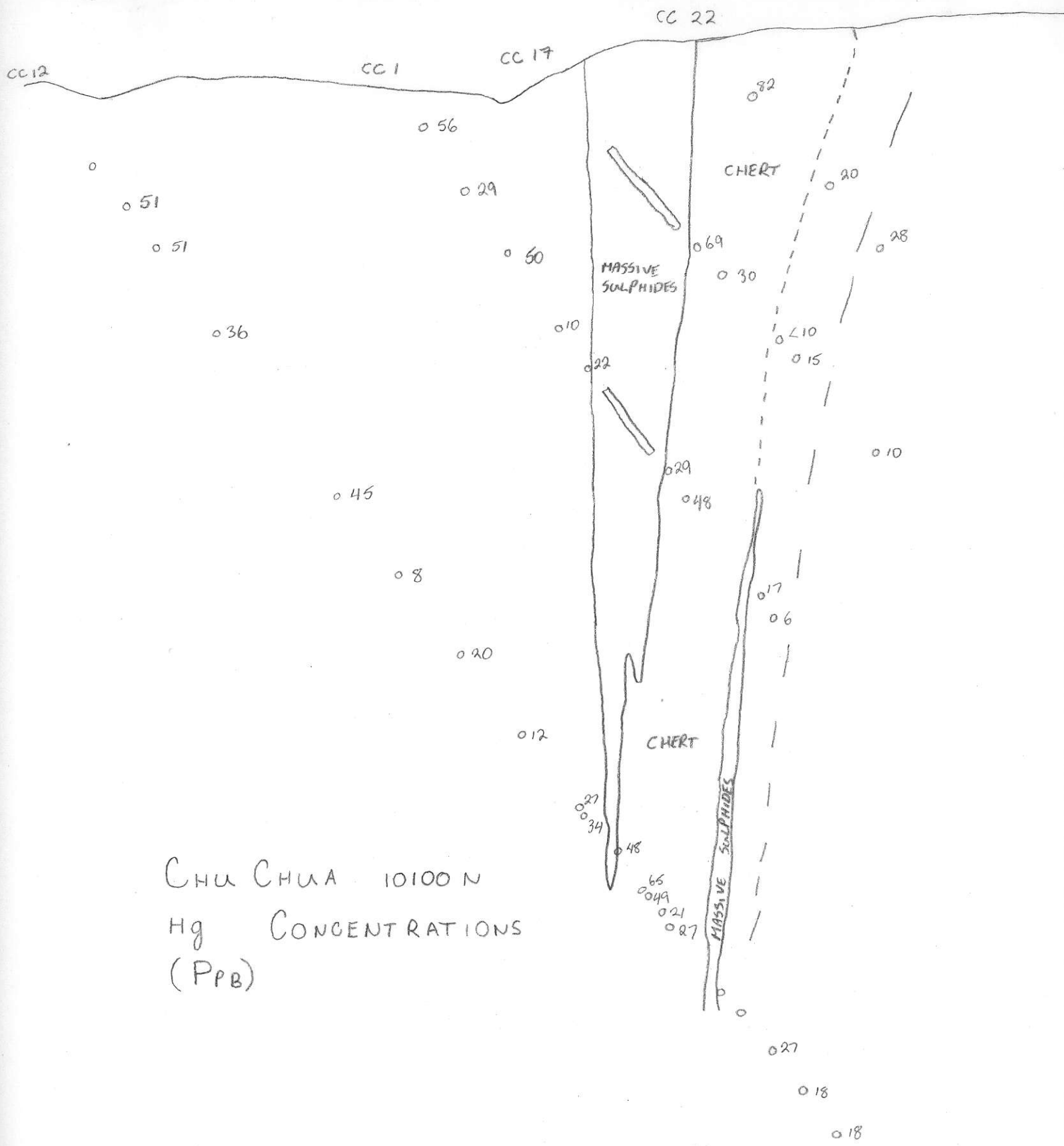
MnO CONCENTRATION (PERCENT)



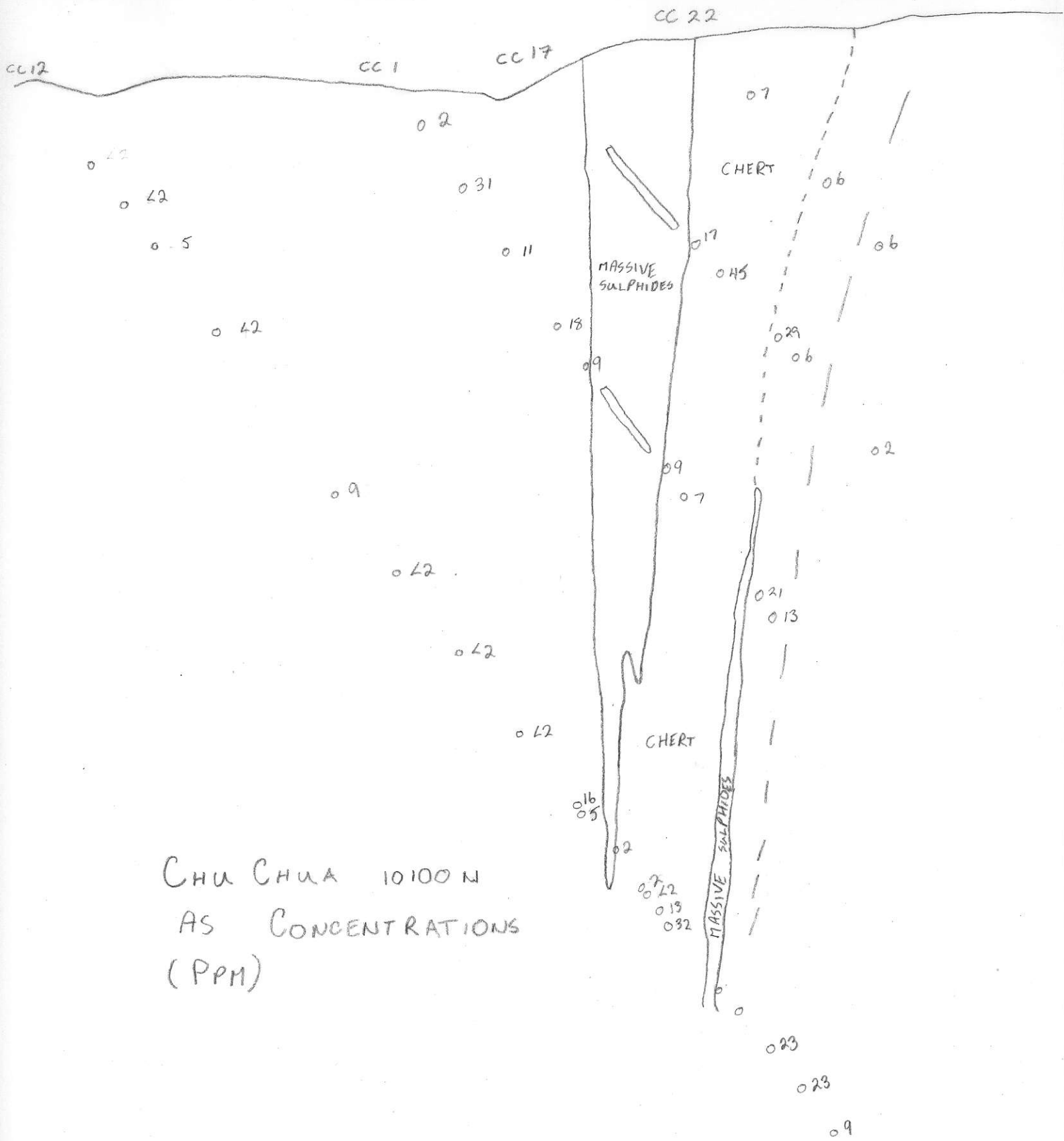


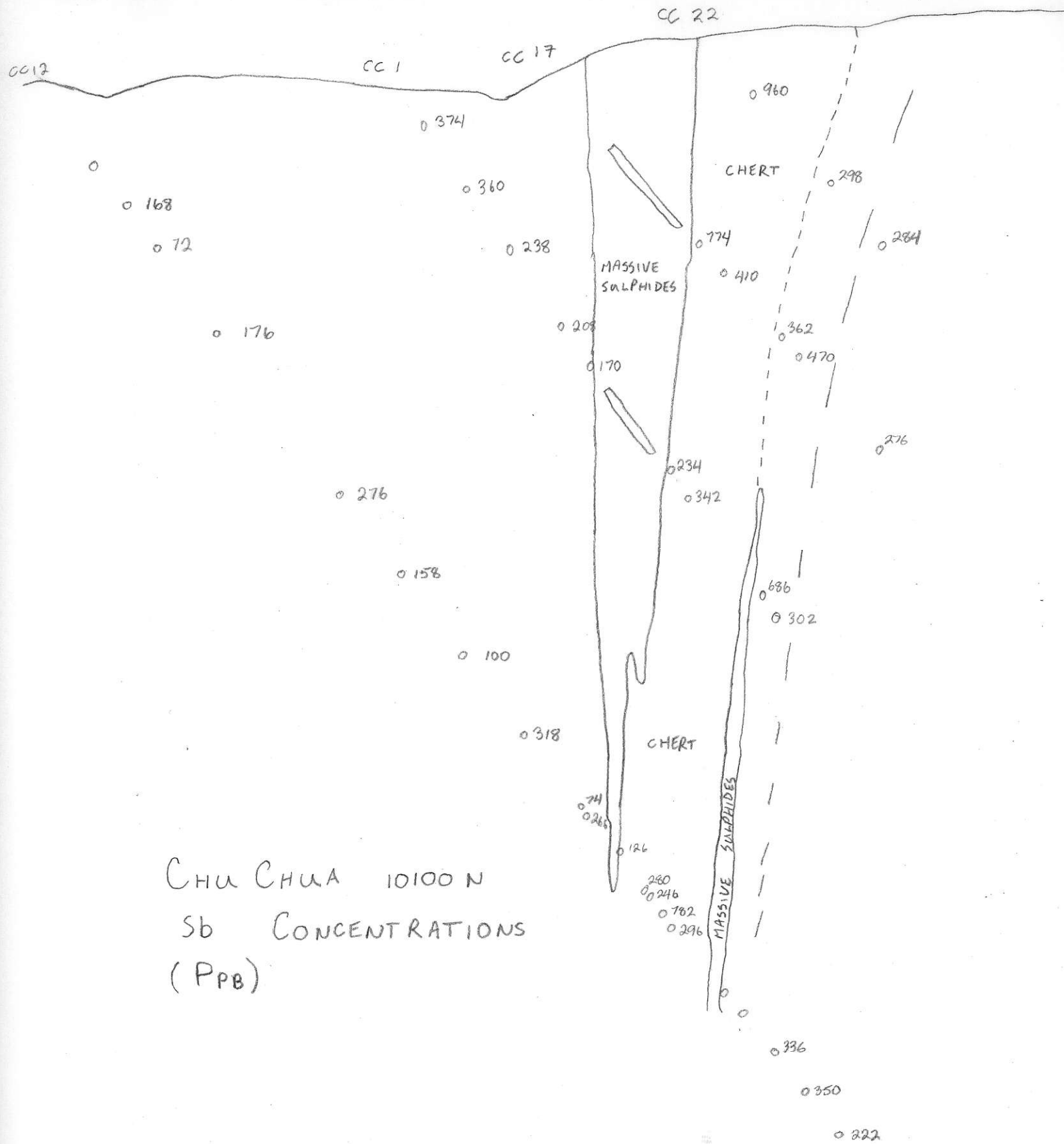


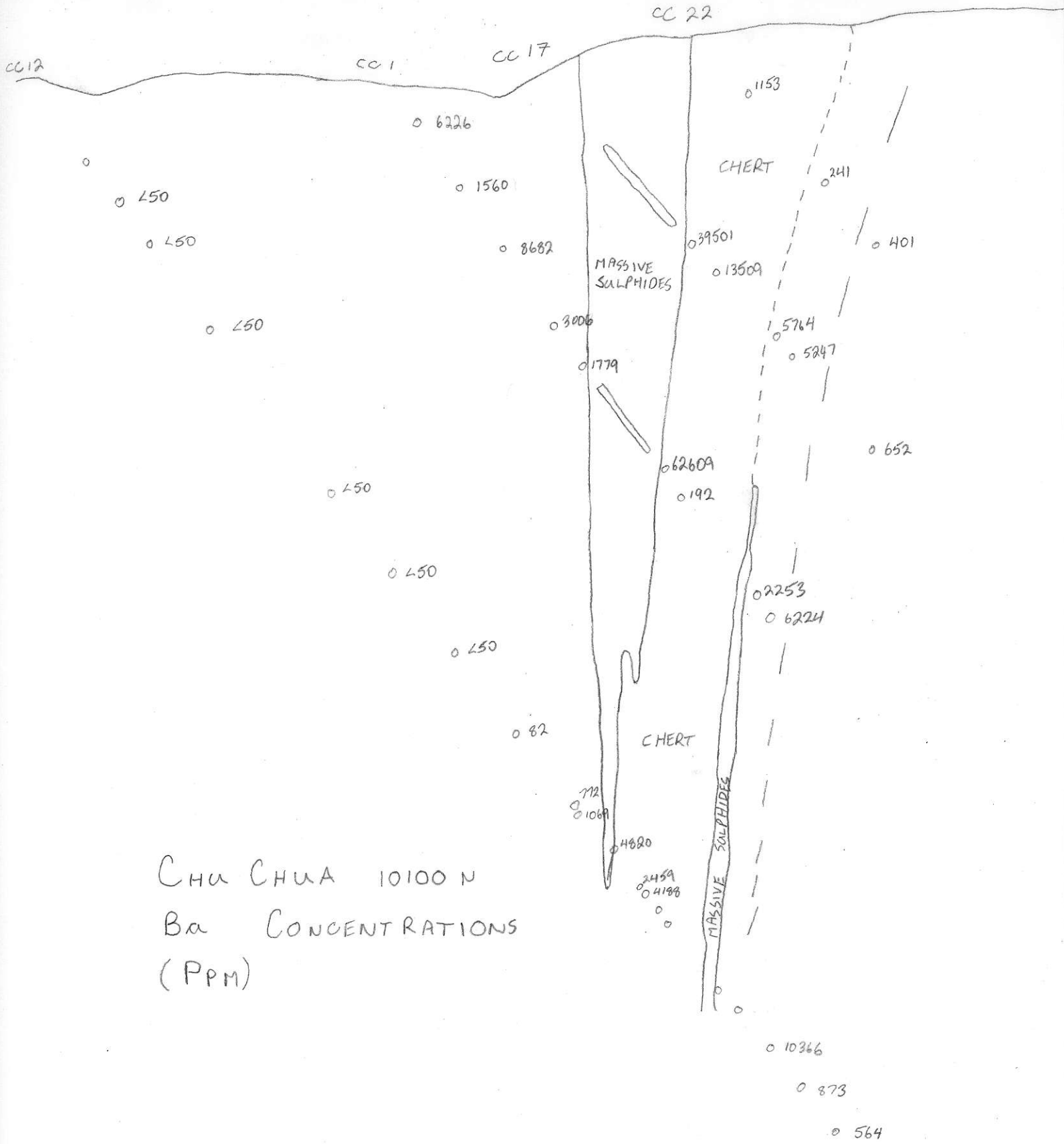
CHU CHUA 10100 N
 SrO CONCENTRATIONS
 (PPM)



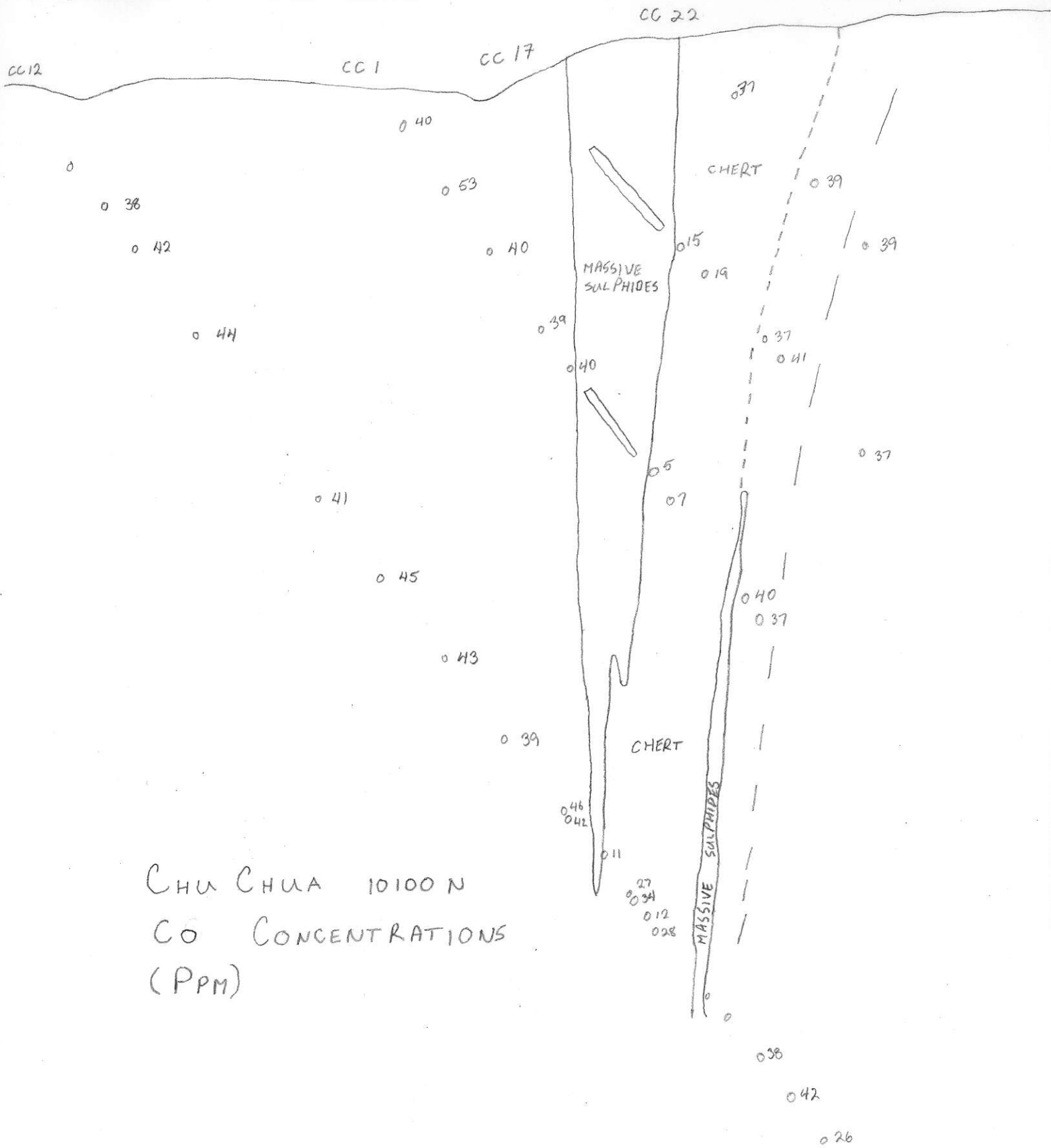
CHU CHUA 10100 N
 Hg CONCENTRATIONS
 (PPB)



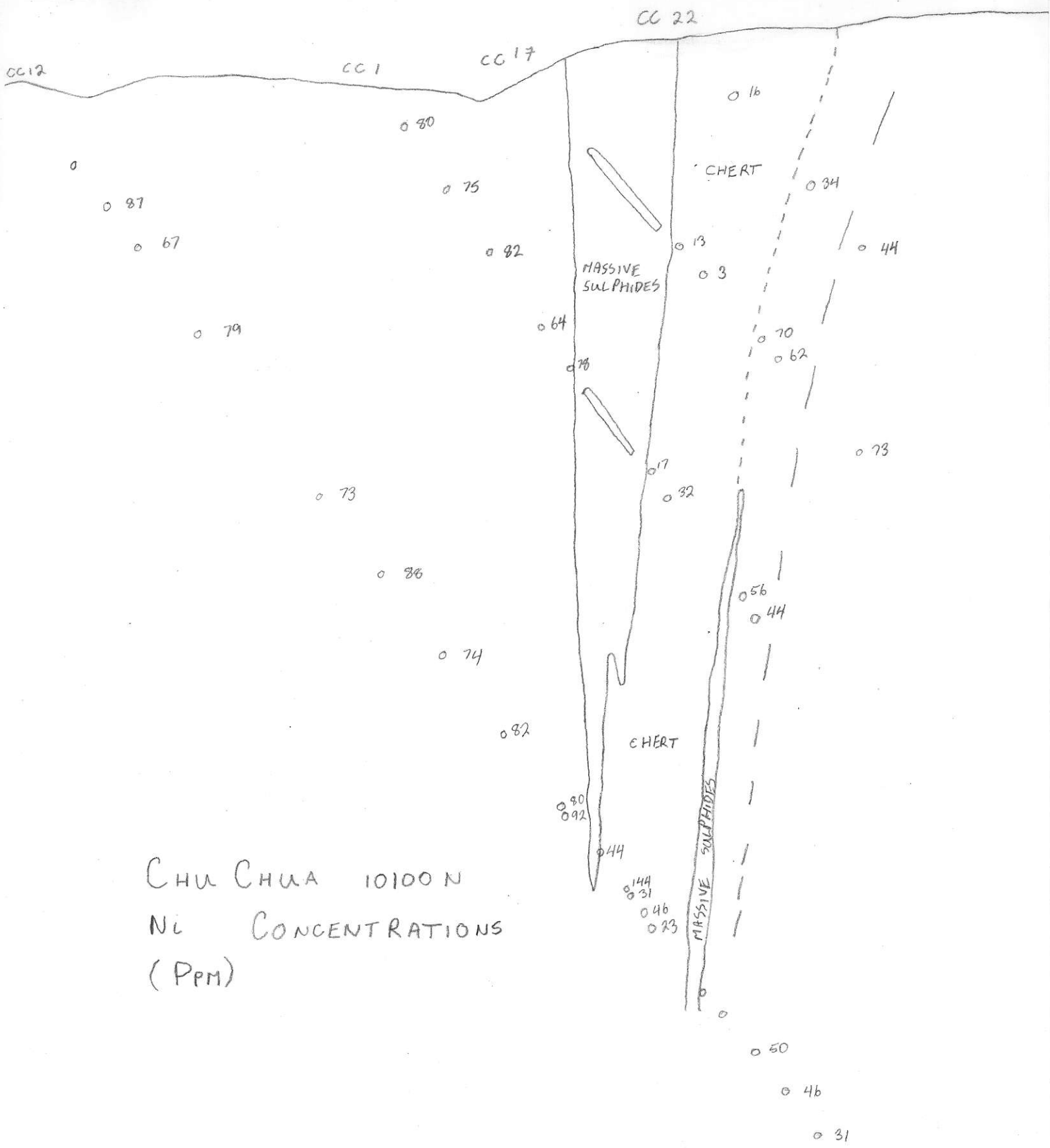




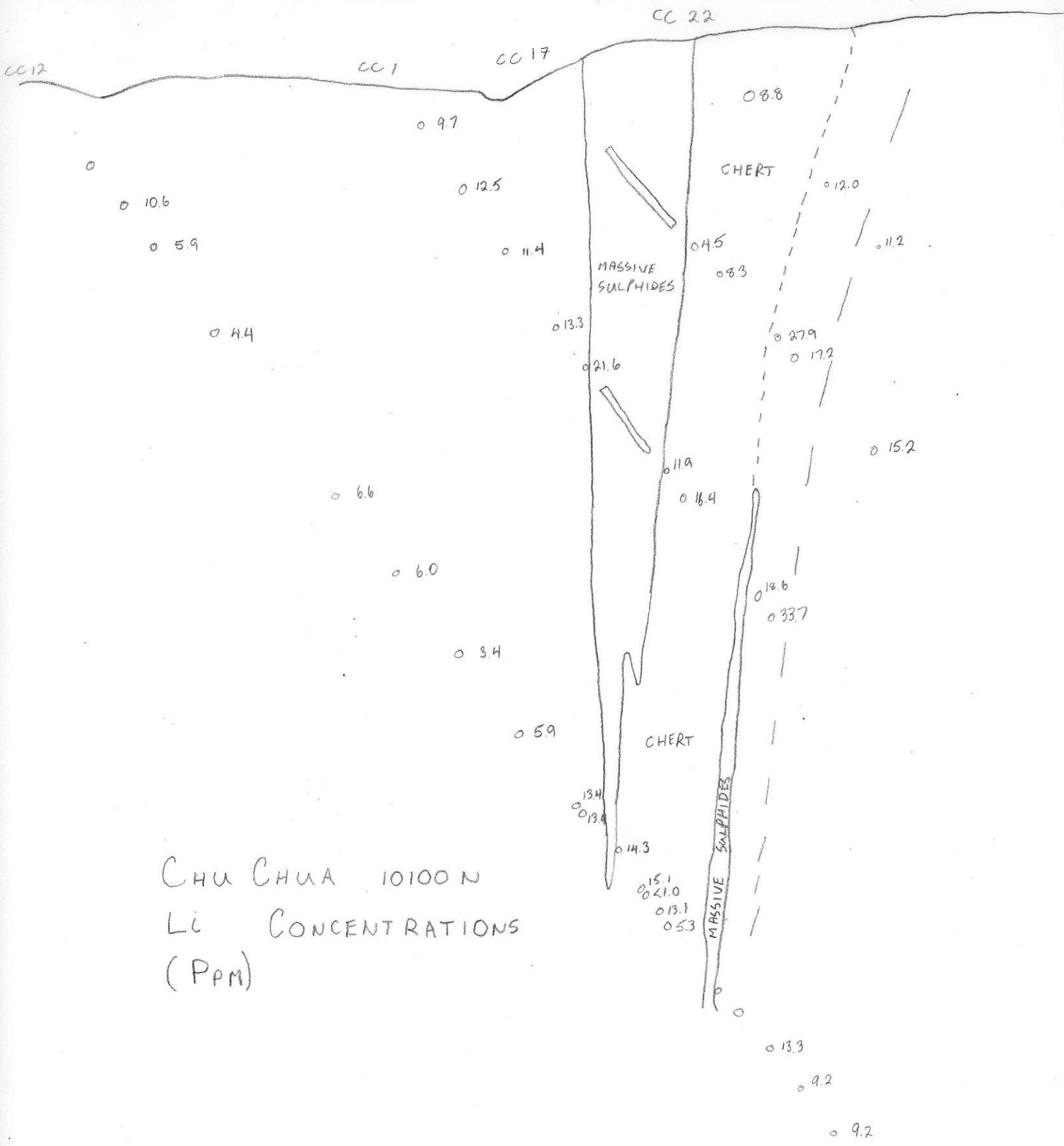
CHU CHUA 10100 N
 Ba CONCENTRATIONS
 (PPM)



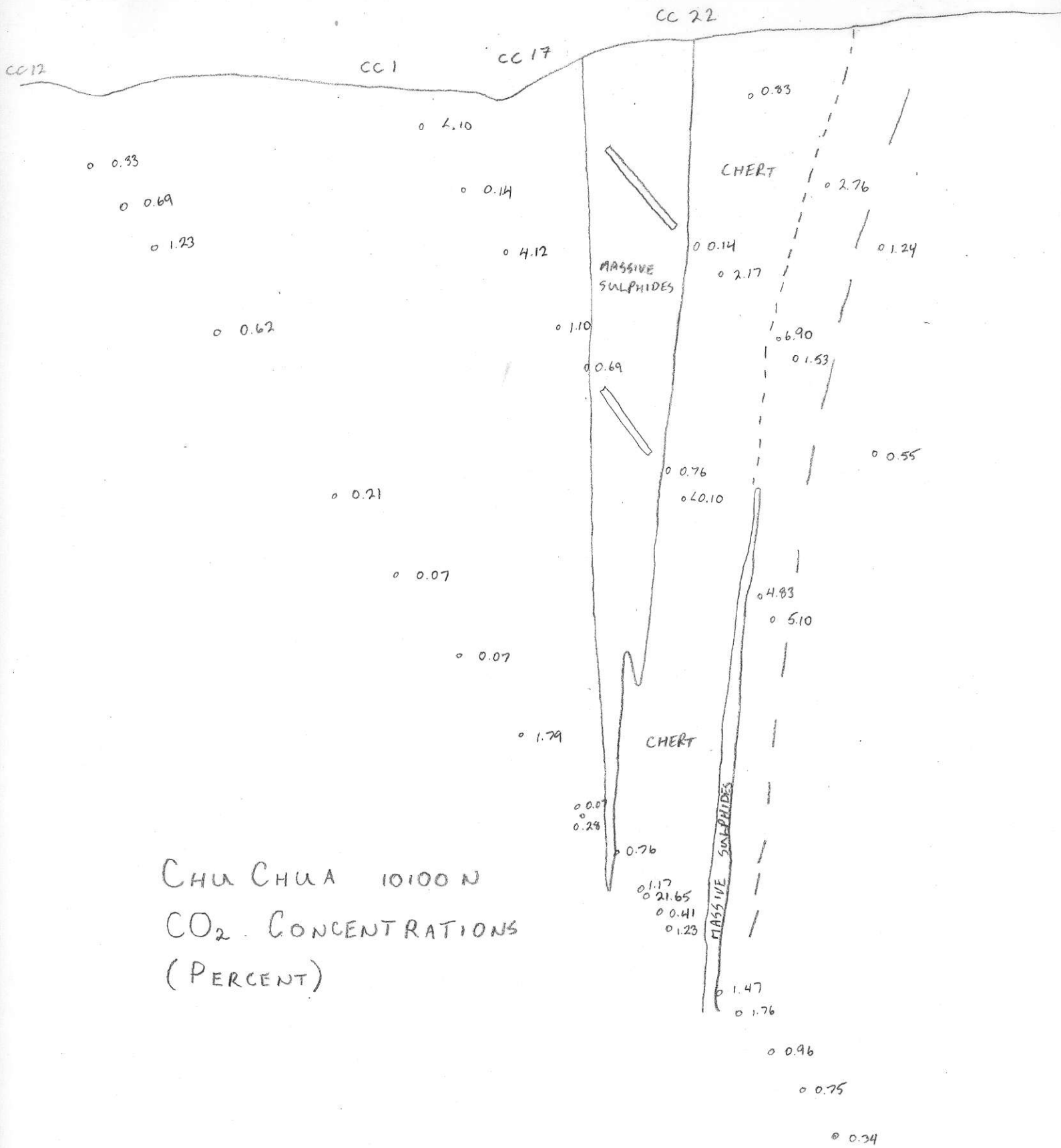
CHU CHUA 10100 N
 CO CONCENTRATIONS
 (PPM)



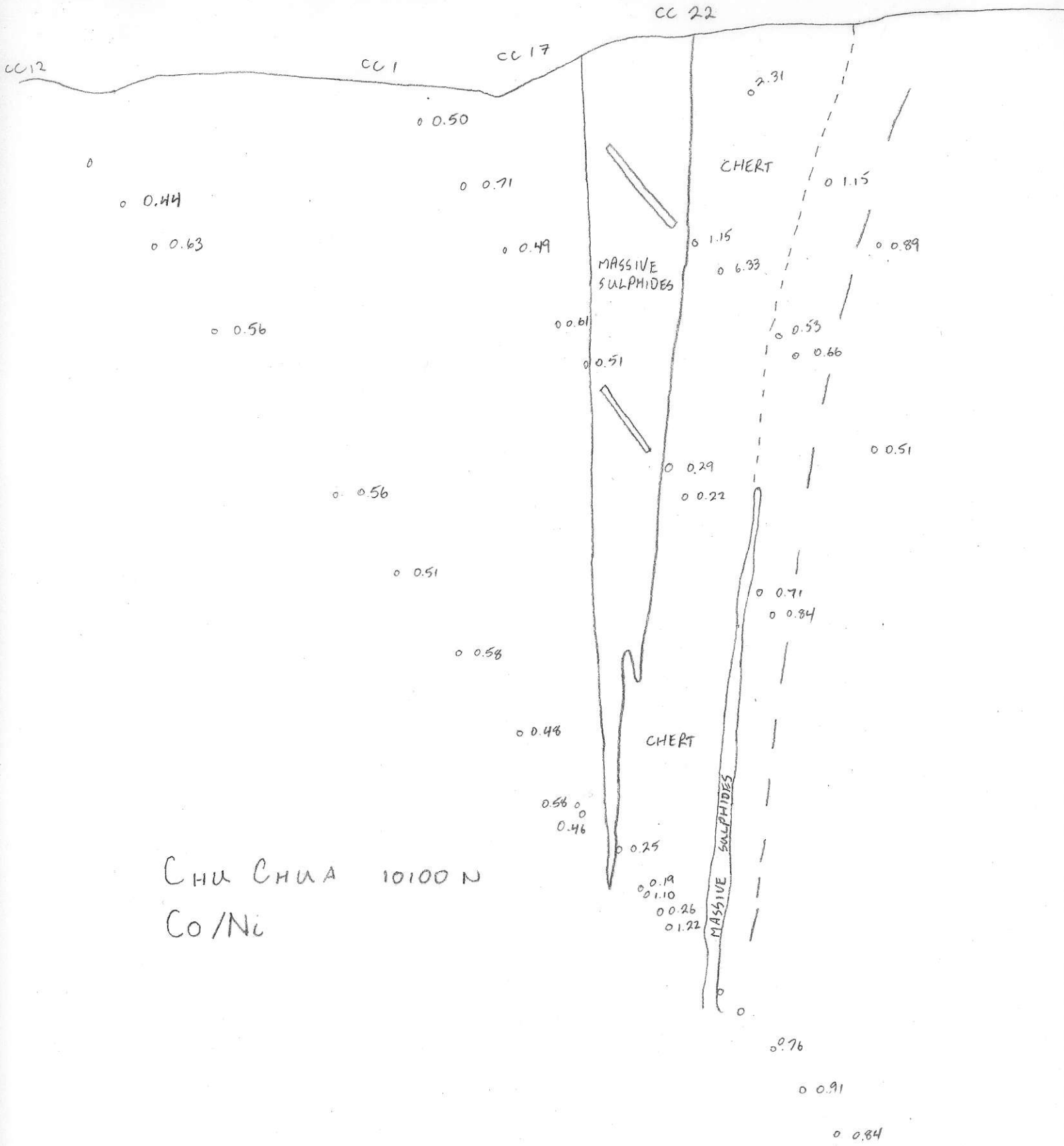
CHU CHUA IOIOON
 NI CONCENTRATIONS
 (PPM)



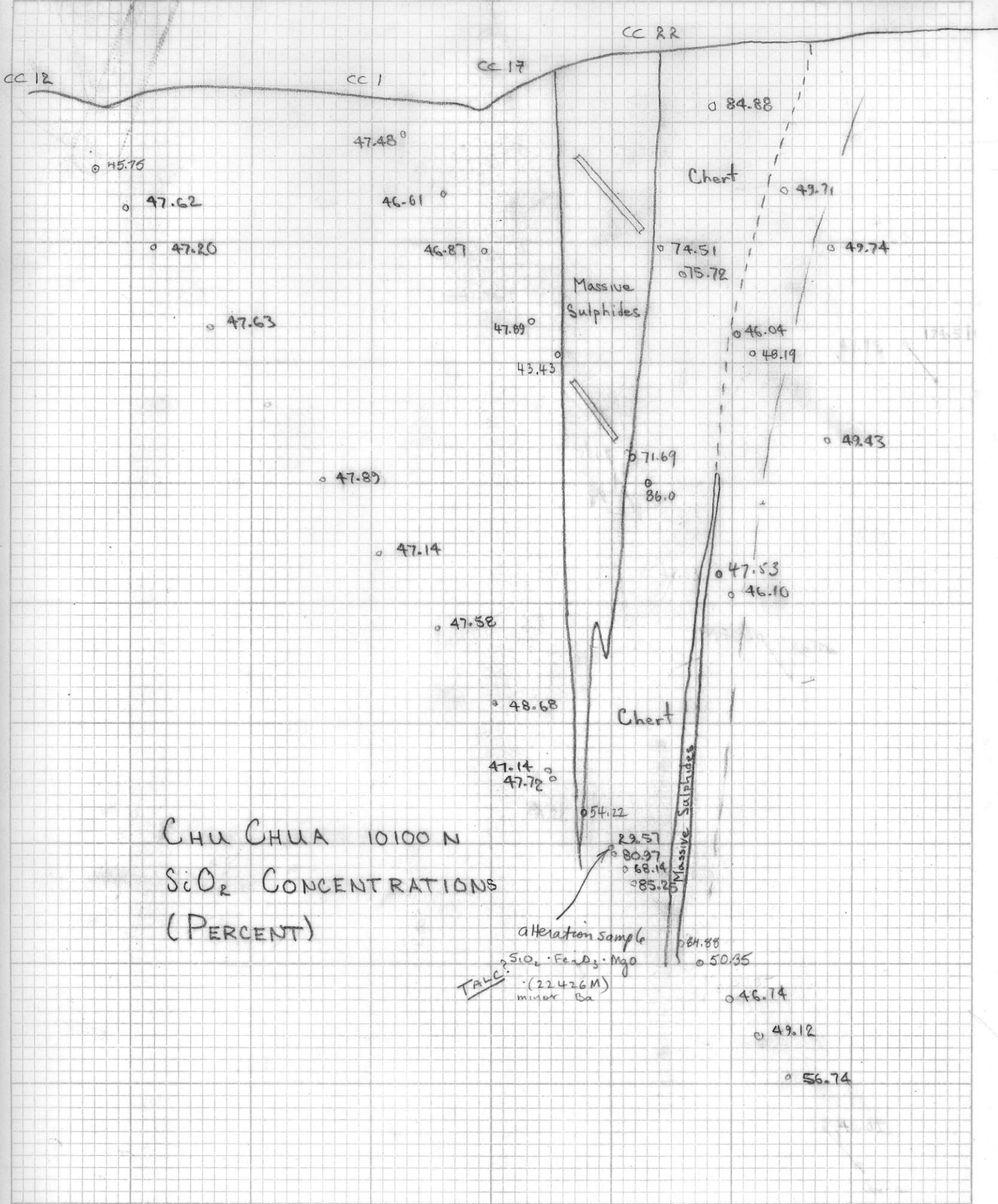
CHU CHUA 10100 N
 Li CONCENTRATIONS
 (PPM)

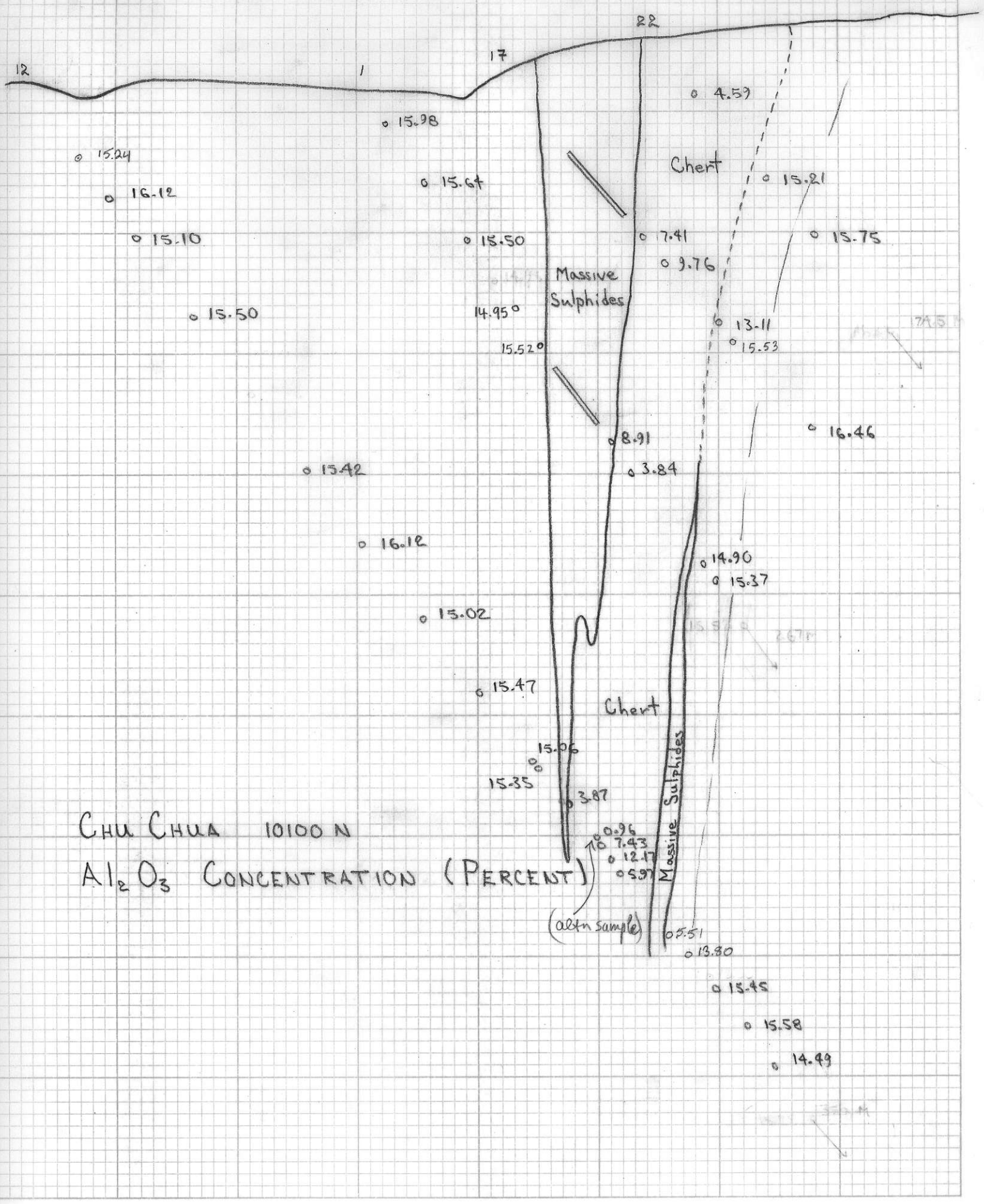


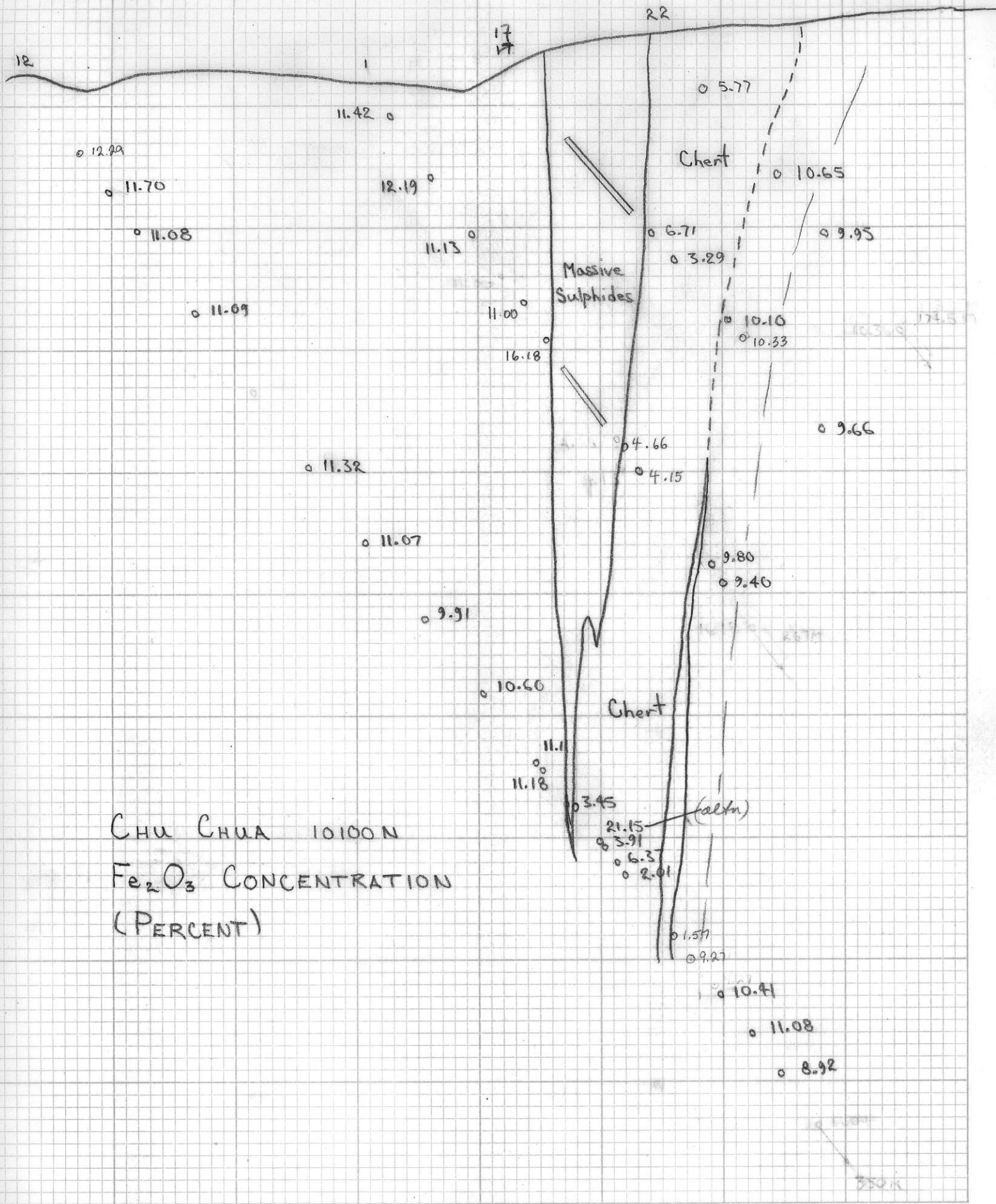
CHU CHUA 10100 N
 CO₂ CONCENTRATIONS
 (PERCENT)

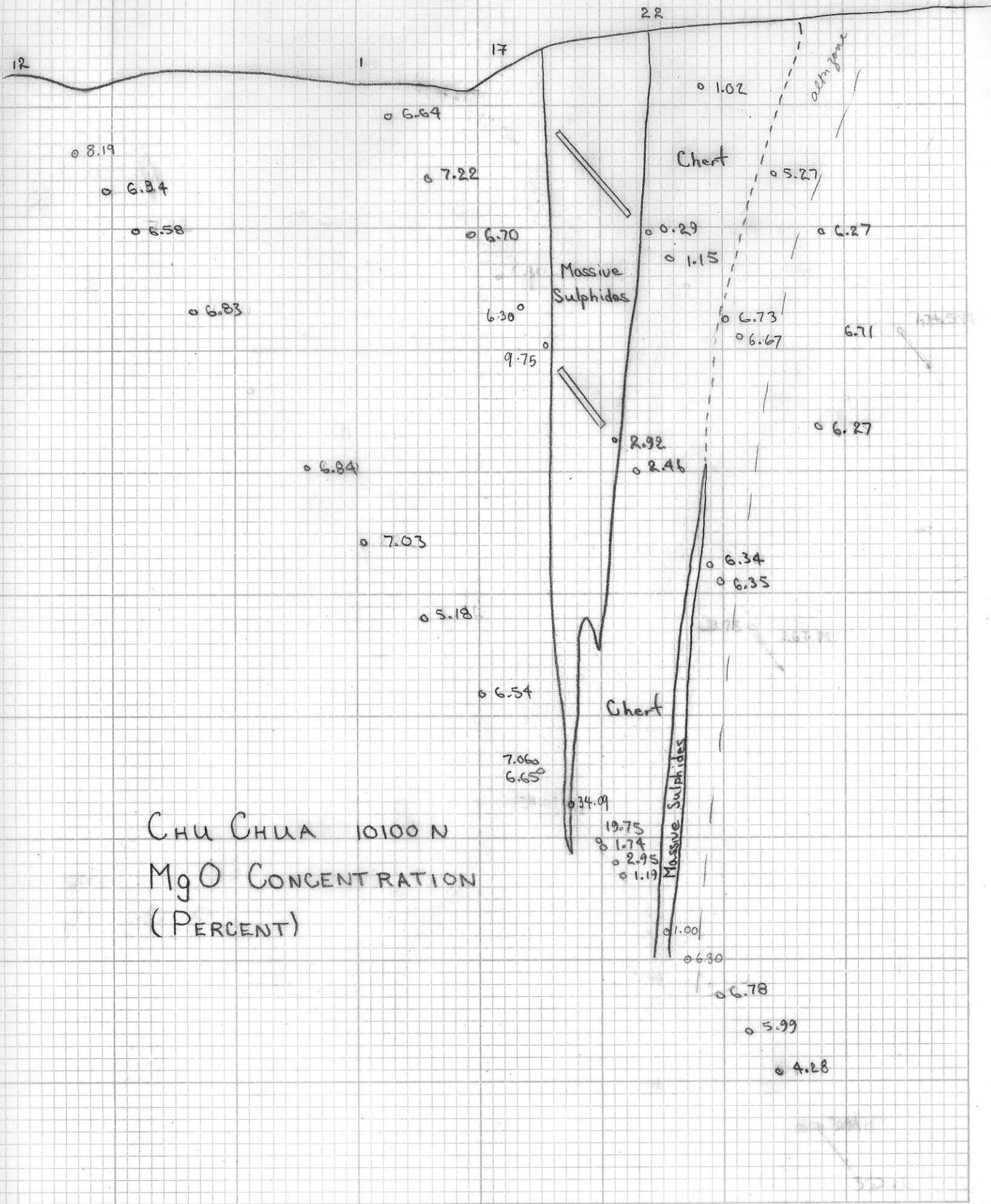


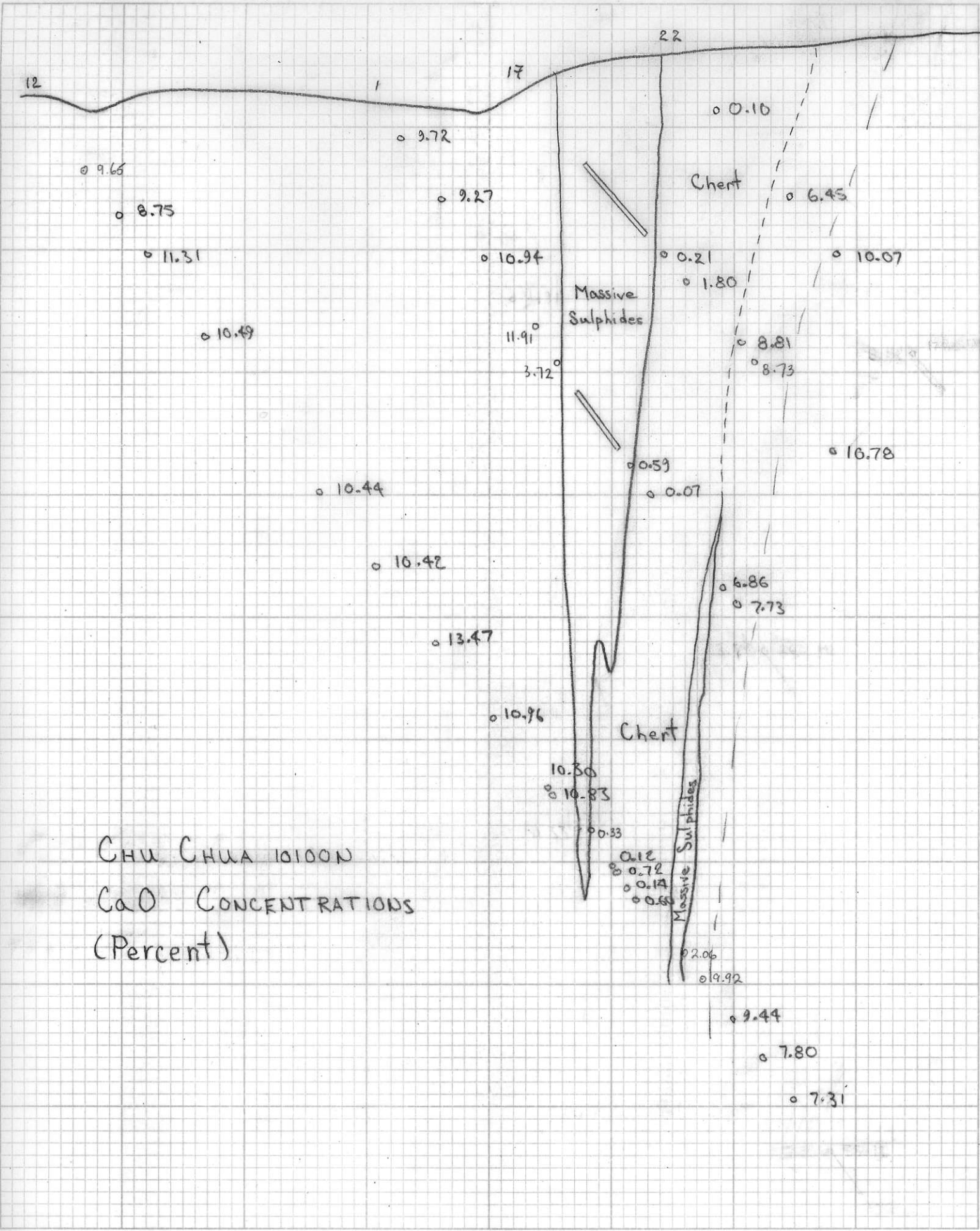
СНУ СНУА 10100 N
 Co/Ni











CHU CHUA 10100N
 CaO CONCENTRATIONS
 (Percent)

12

1

17

22

9.65

8.75

11.31

10.49

10.44

10.42

13.47

10.96

10.50

10.83

0.33

0.12

0.72

0.14

0.60

2.06

19.92

9.44

7.80

7.31

9.72

9.27

10.94

11.91

3.72

0.59

0.07

0.10

0.21

1.80

8.81

8.73

6.86

7.73

10.78

6.45

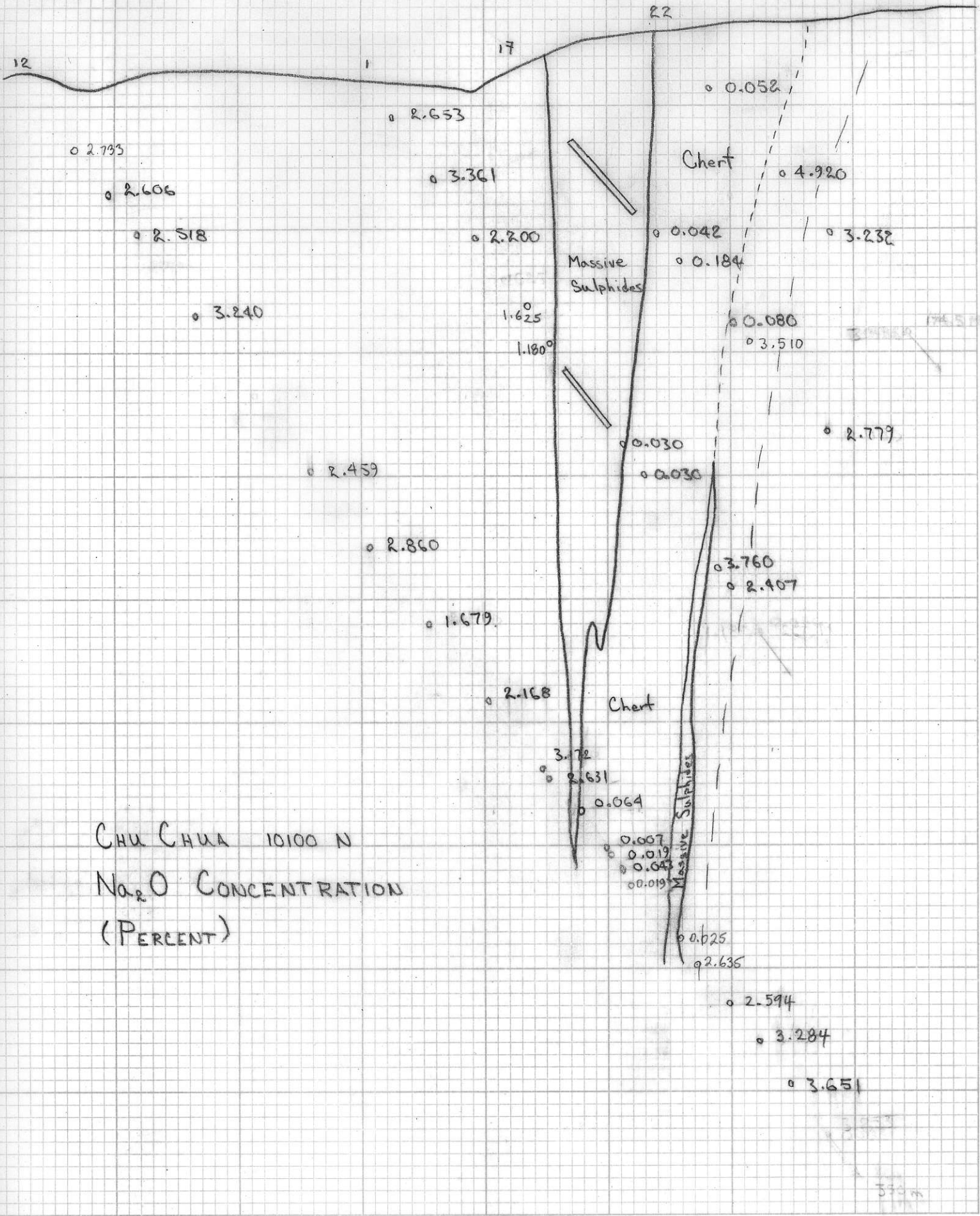
10.07

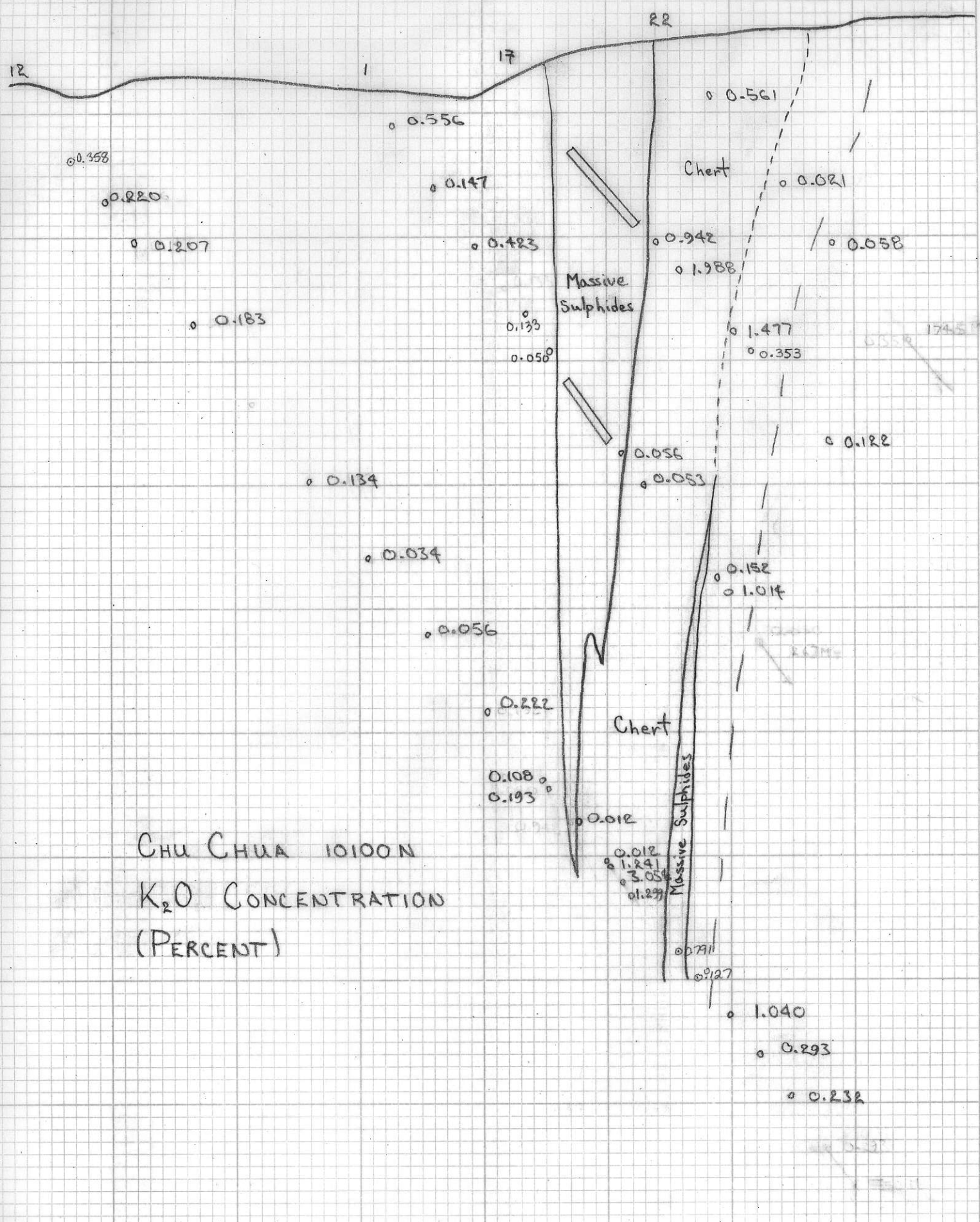
Massive Sulphides

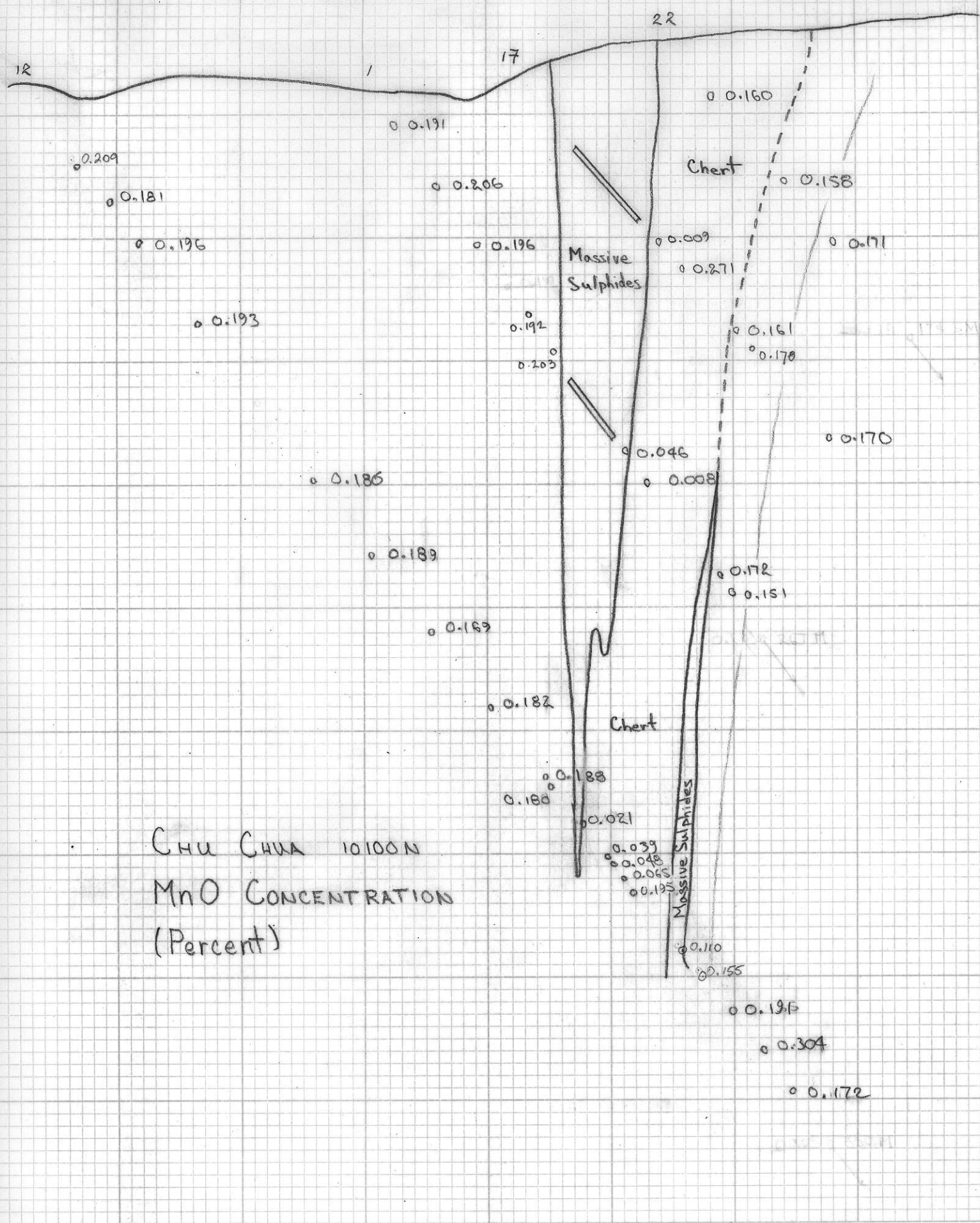
Chert

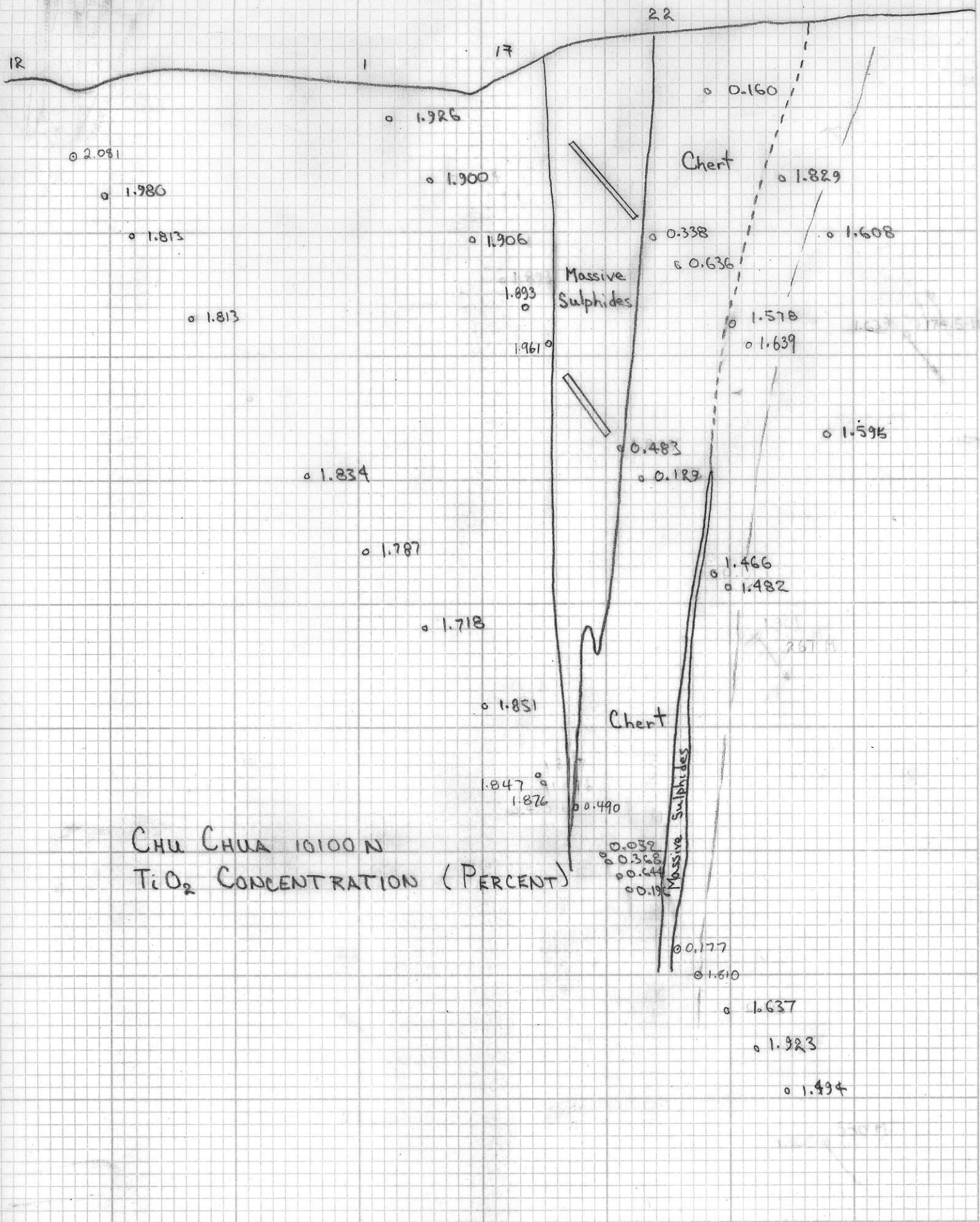
Massive Sulphides

Chert









CaO vs. $K_2O + Na_2O$ CONCENTRATIONS

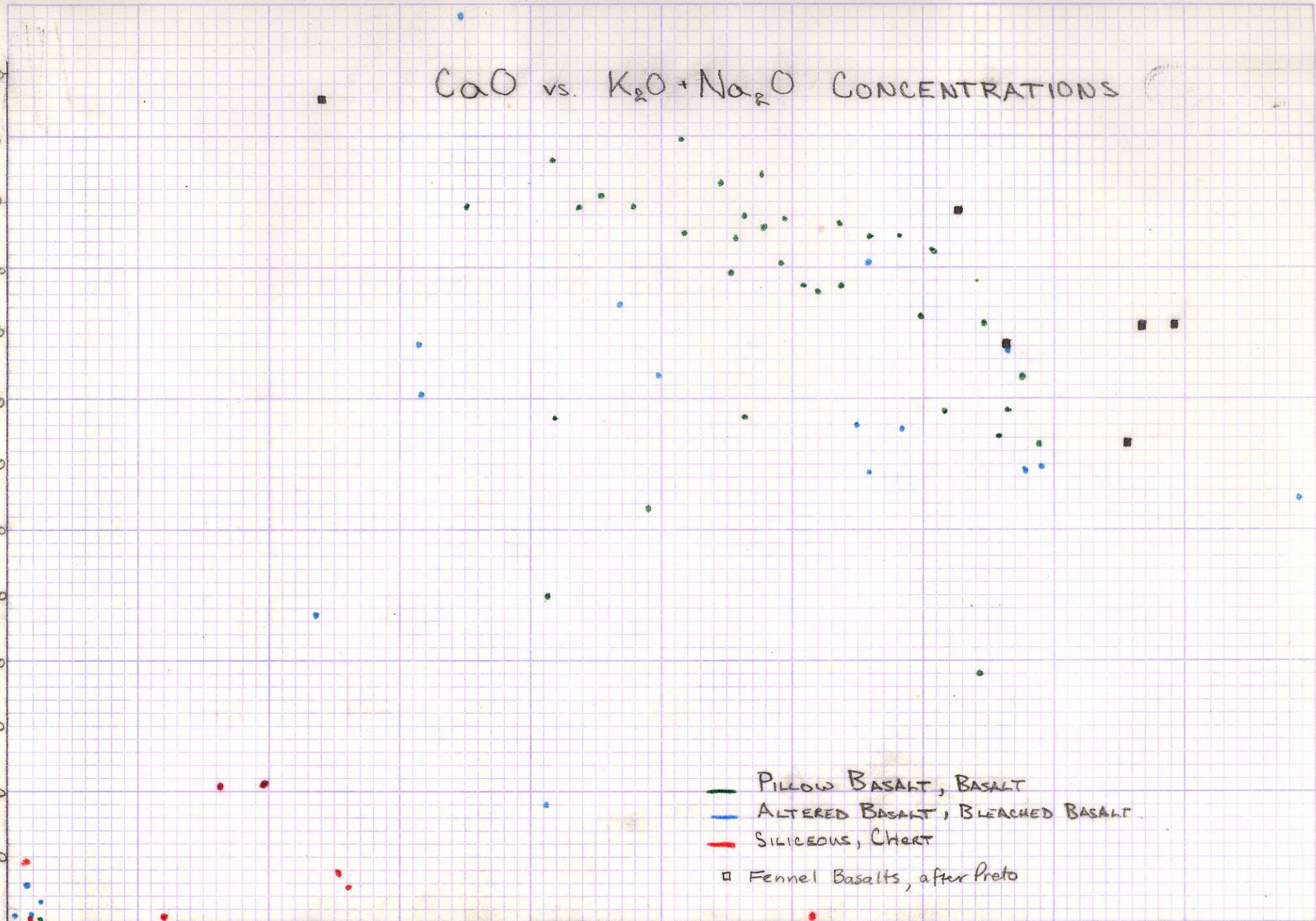
CaO CONCENTRATION (PERCENT)

13.0
12.0
11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0

$K_2O + Na_2O$ CONCENTRATION (PERCENT)

0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

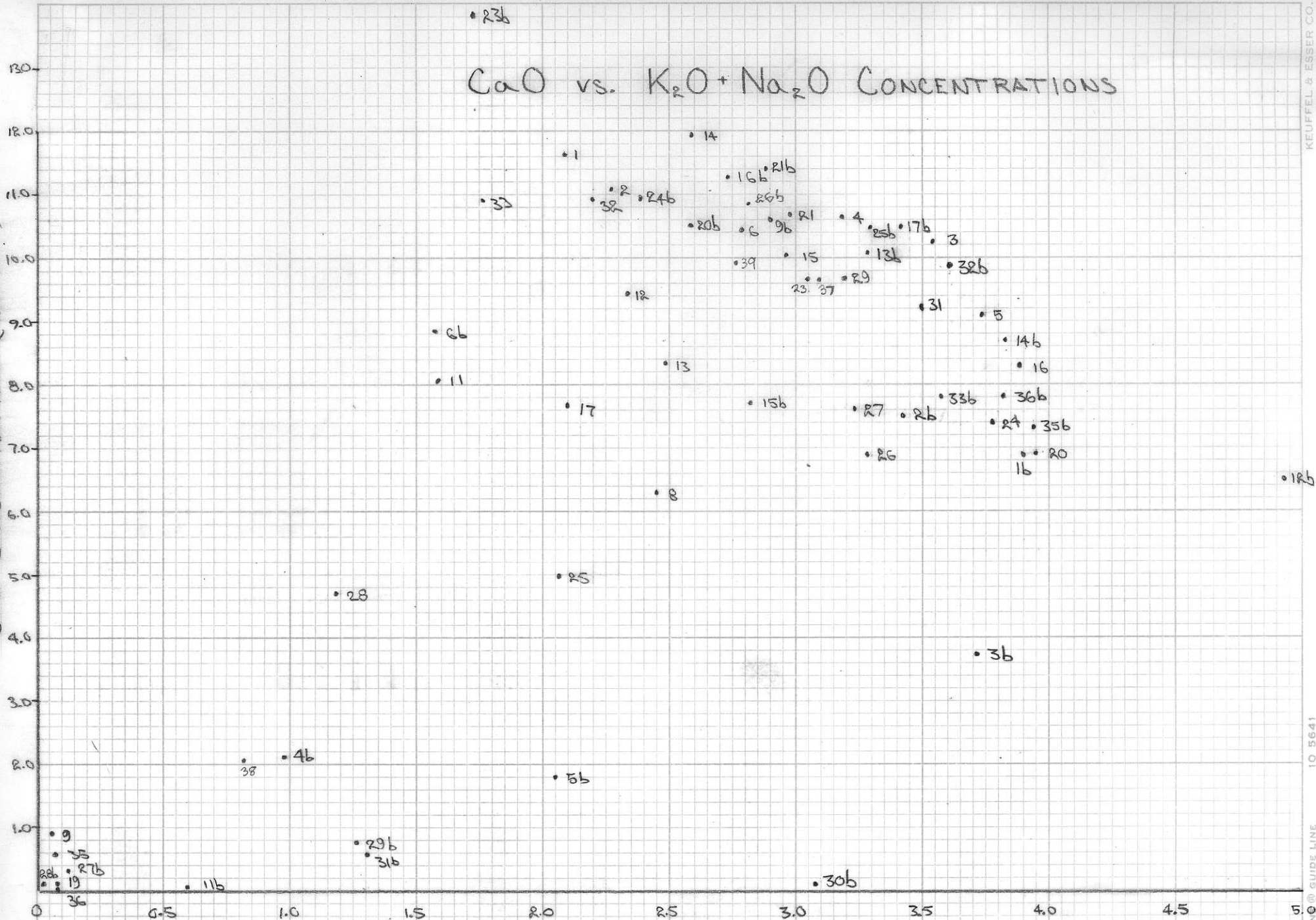
- PILLOW BASALT, BASALT
- ALTERED BASALT, BLEACHED BASALT
- SILICEOUS, CHERT
- Fennel Basalts, after Preto



CaO vs. $K_2O + Na_2O$ CONCENTRATIONS

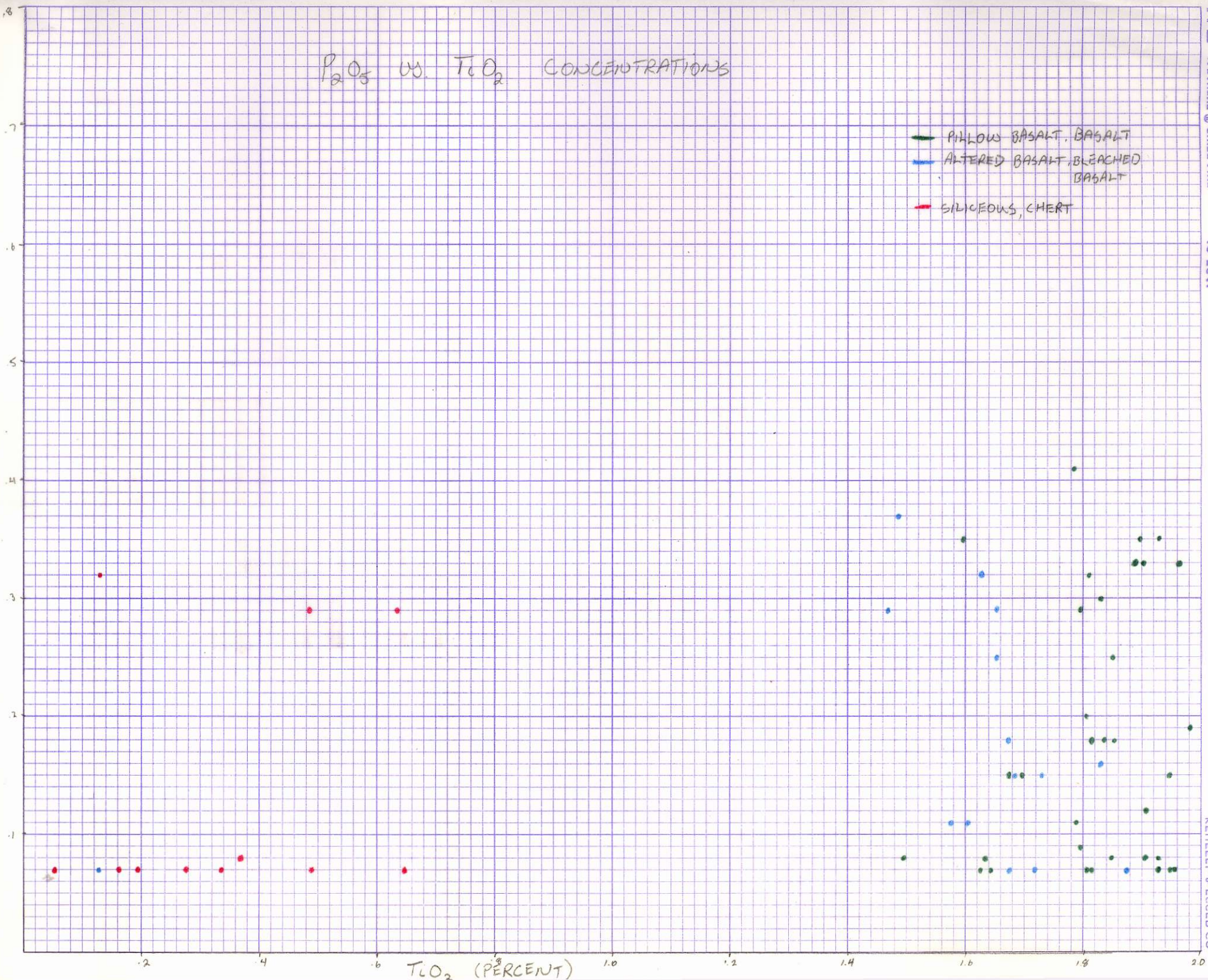
CaO CONCENTRATION (PERCENT)

$K_2O + Na_2O$ CONCENTRATION (PERCENT)



P_2O_5 vs. TiO_2 CONCENTRATIONS

P_2O_5 (PERCENT)



P_2O_5 vs. TiO_2 CONCENTRATIONS

P_2O_5 (PERCENT)

7

6

5

4

3

2

1

TiO_2 (PERCENT)

2

4

6

8

10

12

14

16

18

20

26b 19 11b 31b 9 4b 29b 27b 30b 35 5b 1b 2b 9b 11b 27 28 20 12 18 8 11 6b 12b 25 16b 20b 24b 12b 15b 21b 16 17b 22b 26 32 33b 26b 23 6 2 35b 17 13 28b 14 15b 39 38 31 36 29 32