Bergvesenet rapport nr	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
BV 4963				**Åpen**
Kommer fra ..arkiv	Ekstern rapport nr LV 30	Oversendt fra	Fortrolig pga	Fortrolig fra dato:

Tittel
Lithogeokjemiske undersøkelser i Løkkenområdet 1984 - 1985
DEL II Bind 1 Statistisk bearbeiding av analysedata, Prøvelister.

Forfatter	Dato År	Bedrift (Oppdragsgiver og/eller oppdragstaker)
Grammeltvedt, Gudmund	1985	Orkla Industrier A/S

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Meldal	Sør-Trøndelag		15213	

Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Geokjemi		Løkken
Råstoffgruppe	Råstofftype	

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse
Se også BV 1974, 1975, 4964

BV 4963

LV – rapport nr. 30. Del II, Bind 1

Lithogeokjemiske undersøkelser

i

Løkken-området

1984 - 1985

Innhold:

STATISTISK BEARBEIDING AV ANALYSEDATA

PRØVELISTER

Innhold, Sammendrag.

INNHOLDSFORTEGNELSE. DEL II, BIND 1

INNHOLDSFORTEGNELSE. DEL II, BIND 2

SAMMENDRAG

LV-rapport nr. 30 Del II viser alle analysedataene fra den lithogeokjemiske undersøkelsen i Løkken-området. Del II består av 2 bind. Bind 1 er inndelt i 5 kapitler.

Bind 1

A omfatter faktoranalysene. Det er tre forskjellige faktoranalyser: alle prøver med 6 elementer, alle prøver med 21 elementer (aritmetrisk og geometrisk) og grønnsteiner med 21 elementer (aritmetrisk og geometrisk).

B viser faktoranalyser for alle prøver med 20 elementer. Denne er utarbeidet på et tidlig stadium og er ikke med i bearbeidingen beskrevet i Del I.

C viser regresjonskurver Zr mot Zn, Cu, SiO2, CaO, Fe2O3, MnO, MgO, Na2O.

D inneholder sammendrag av de kjemiske analysene med middelverdi og avvik samt frekvensfordelinger av en del elementer.

E inneholder alle prøvelister med UTM koordinater, kartblad 1521 III Løkken og 1521 II Hølonda.

Bind 2.

Analyseresultatene er ordnet etter lab.nr. (OKME).
Først er resultatene fra AAS analysene av elementene Cu, Zn, Ni, Co, Pb, S, Ag og Li.
Dernest resultatene fra XRF analysene av elementene Na2O, MgO, Al2O3, SiO2, P, S, Cl, K2O, CaO, Ti, V, Cr, Mn, Fe, Ni, Cu, Zn, As, Rb, Sr, Y, Zr, Nb, Mo, Sn, Sb, Cs, Ba, La, Ce, Ta, Pb, Bi, Th, U.

Lithogeokjemiske undersøkelser. Løkken

ANALYSERTE ELEMENTER

AAS CU ZN NI CO PB S LI (AG)

XRF NA_2O MGO AL_2O_3 SIO_2 P S CL K_2O CAO
TI V CR MN FE NI CU ZN AS RB SR
Y ZR NB MO SN SB CS BA LA CE TA
PB BI TH U

ELEMENTER BENYTTET I FAKTORANALYSE:

CU ZN NI SR AS BA S MN CR FE NA_2O
MGO AL_2O_3 SIO_2 P K_2O CAO TI V ZR CL

I SULFIDARER

- Avtagende åretetthet mot dypet.
- Anrikning av metaller øverst (uregelmessig).

II PRIMÆR DISPERSJON

a) Sulfiddisseminasjon

- sterkt avtagende mot dypet
- Cu anrikning øverst og sentralt
- Zn anrikning øverst og perifert

b) Ikke - sulfider

- Mn anrikning perifert mot dypet
- B anrikning i øvre deler

III MINERALOGISK / KJEMISK OMVANDLING

a) kvarts - sericitt omvandling (øverste 40 - 50 m)

+ Sio_2, K_2O
- CaO, Na_2O, MgO

b) Albitt omvandling (ytre ovre deler)

+ Na_2O, SiO_2
- CaO, (MgO)

c) Kloritt - kvarts omvandling (dypere deler)

- FeO (tot)
- SiO_2, CaO, Na_2O

Tabell 1. Karakteristika i Løkken Grubers tilførselsone
Caracteristica of the feeder - zone, Løkken Mine

A

Alle prøver

Geom.

F 1	Fe V Ti (Mn MgO SiO_2) ((CaO))
F 2	Ni Cr ((MgO CaO))
F 3	Cu S ((Zn))
F 4	Ba K_2O
F 5	Al_2O_3 Na_2O
F 6	Sr ((CaO))
F 7	As
F 8	Cl
F 9	Zr P ((Ti))
F 10	Zn

Aritm.

F 1	Ni Cr (MgO) ((SiO_2))
F 2	Ti V (Fe) ((SiO_2))
F 3	Cu Zn
F 4	P Zr
F 5	Sr CaO ((Na_2O))
F 6	Ba K_2O
F 7	Al_2O_3
F 8	Cl
F 9	S ((Fe))
F 10	As
F 11	Mn

LØKKEN AREA
Lithogeochemistry
Factor Analysis
Rotated Factor Matrix
Geometric

ALL ROCK TYPES
No of samples 1667
No of variables 21

		F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
1	Cu	3		-8							3
2	Zn	3		-3							9
3	Ni	2	9							-2	
4	Sr						9				
5	As							-10			
6	Ba	-2			9						
7	S		-4	-8		2					
8	Mn	7	2								3
9	Cr		9							-2	
10	Fe	9									
11	Na_2O		-2		-2	-7	-2			3	
12	MgO	7	5							-2	
13	Al_2O_3				2	-9	2		2		
14	SiO_2	-7	-4				-3			2	
15	P	3								8	
16	K_2O				9						
17	CaO	5	5		-2		5		-2	-2	-2
18	Ti	8			-2	-2				5	
19	V	9									
20	Zr		-3							9	
21	Cl								-10		
Map enclosed		X	X	X							X

Tabell 3a Faktoranalyse, alle prøver, geometrisk.
Rotated Factor matrix x 10, avrundet til hele tall

LØKKEN AREA
Lithogeochemistry
Factor Analysis
Rotated Factor Matrix
Aritmetric ~~mean~~

ALL ROCK TYPES
No of Samples 1667
No of Variables 21

		F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
1	Cu			9								
2	Zn			9								-3
3	Ni	9										
4	Sr				3	8						
5	As										10	
6	Ba		2				9					
7	S			3						9		
8	Mn		4	3								-8
9	Cr	9	-2									
10	Fe		7	2						4		-3
11	Na_2O	-4			3	-5	-3	3				
12	MgO	7			-2							-4
13	Al_2O_3							9				
14	SiO_2	-5	-5		2	-4		-3			2	2
15	P		2		9							
16	K_2O						9					2
17	CaO	3			-3	8	-2					
18	Ti		9		3							
19	V		9									
20	Zr	-2			8							
21	Cl								10			
Map enclosed			X	X						X		X

Tabell 3b Faktoranalyse, alle prøver, aritmetisk ~~middel~~
Rotated factor matrix x 10, avrundet til hele tall

GREENSTONES
No of samples 1542
No of variables 21

LØKKEN AREA
Lithogeochemistry
Factor Analysis
Rotated Factor Matrix
Geometric ~~mean~~

		F1 I	F2 II	F3 III	F4 IV	F5 V	F6 VI	F7 VII	F8 VIII	F9 IX	F10 X	F11 XI
1	Cu			-8					2			
2	Zn			-3								8
3	Ni								9			
4	Sr					9						
5	As				9			10				
6	Ba				9							
7	S			-7			3		-4	-2		
8	Mn		6			2	5		2			-5
9	Cr		-2						9			
10	Fe	-3	8									-2
11	Na_2O										-9	
12	MgO	3	4				3		6	-2		
13	Al_2O_3						-9					
14	SiO_2		-4			-3			-5		-5	
15	P	-8	2						2			
16	K_2O				9		2					
17	CaO	2	2			7			5	2		3
18	Ti	-7	7									
19	V	-2	9									
20	Zr	-9							2			
21	Cl									9		

Tabell 4a Faktoranalyse, grønnstein, geometriske ~~middel~~
Rotated Factor Matrix x 10, avrundet til hele tall

LØKKEN AREA
Lithogeochemistry
Factor Analysis
Rotated Factor Matrix
~~linear~~
Aritmetric

GREENSTONES,
No of samples 1542
No of variables 21

		F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
1	Cu			9							
2	Zn			9							
3	Ni	9	-2								
4	Sr					8				2	-2
5	As								-10		
6	Ba				9						
7	S			9							
8	Mn		3	2							-8
9	Cr	9	-3								
10	Fe		7	-3							-4
11	Na_2O	-5			-3	-5				2	
12	MgO	7									-5
13	Al_2O_3									9	
14	SiO_2	-5	-4			-5	3				
15	P						9				
16	K_2O				9						2
17	CaO	2				8	-3			-2	2
18	Ti	-2	7				5				
19	V	-2	9								
20	Zr	-2		-2			8				
21	Cl							10			
Map enclosed				X							

Tabell 46 Faktoranalyse, grønnstein, aritmetisk ~~variabel~~
Rotated Factor Matrix × 10, avrundet til hele tall.

FACTOR ANALYSIS/FRAKT/LOKKEN
CU,ZN,NI,CO,PB,AG

NO. OF CASES 1067
NO. OF VARIABLES 6

ALL SAMPES

24.05.85

MEANS
80.42831 98.76384 90.59322 40.95599 17.93820 1.36327

STANDARD DEVIATIONS
1064.81836 116.87231 60.15511 13.89194 11.07725 0.87027

CORRELATION COEFFICIENTS

ROW 1
1.00 0.69 0.07 0.13 0.01 0.20

ROW 2
0.69 1.00 0.00 0.10 0.10 0.31

ROW 3
0.07 0.00 1.00 0.27 0.01 0.08

ROW 4
0.13 0.10 0.27 1.00 0.19 0.30

ROW 5
0.01 0.10 0.01 0.19 1.00 0.16

ROW 6
0.20 0.31 0.08 0.30 0.16 1.00

EIGENVALUES
1.99350 1.29625 1.01084 0.78386 0.62357 0.29194

CUMULATIVE PERCENTAGE OF EIGENVALUES
0.33225 0.54829 0.71676 0.84741 0.95134 0.99999

EIGENVECTORS

VECTOR 1					
0.54077	0.56903	0.17177	0.34687	0.19880	0.44093
VECTOR 2					
-0.39529	-0.38603	0.46923	0.55479	0.35343	0.20446
VECTOR 3					
-0.17447	0.01285	-0.85933	-0.07668	0.69936	0.19924
VECTOR 4					
-0.21927	-0.11876	-0.35656	0.17101	-0.56387	0.68079
VECTOR 5					
0.15630	-0.03154	-0.43121	0.72766	-0.14862	-0.48721

FACTOR MATRIX (5 FACTORS)

VARIABLE 1				
0.76352	-0.45003	-0.17541	-0.19414	0.12264
VARIABLE 2				
0.30342	-0.43957	0.01291	-0.10515	-0.02490
VARIABLE 3				
0.24252	0.33423	-0.66289	-0.31569	-0.34051
VARIABLE 4				
0.48075	0.63164	-0.07710	0.15141	0.57460
VARIABLE 5				
0.28070	0.40239	0.70314	-0.49923	-0.11736
VARIABLE 6				
0.62356	0.23273	0.20032	0.60274	-0.38473

ITERATION VARIANCES

CYCLE	
0	0.160069
1	0.615933
2	0.712112
3	0.712745
4	0.712746
5	0.712746
6	0.712745
7	0.712746

ROTATED FACTOR MATRIX (5 FACTORS)

VARIABLE 1					
	0.92596	0.05296	-0.03872	0.01177	0.08463
VARIABLE 2					
	0.89514	-0.02919	0.07360	0.20547	-0.00409
VARIABLE 3					
	0.01826	0.99076	0.00026	0.03027	0.12799
VARIABLE 4					
	0.06134	0.13510	0.09568	0.14647	0.97223
VARIABLE 5					
	0.02413	0.00017	0.99235	0.06762	0.09056
VARIABLE 6					
	0.16023	0.03233	0.07126	0.96931	0.14779

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.86900	0.86900	0.00000
2	0.85055	0.85055	0.00000
3	0.99025	0.99024	0.00001
4	0.99786	0.99786	0.00001
5	0.99812	0.99811	0.00000

ALL SAMPLES

FACTOR ANALYSIS/RFAKT/LOKKEN
CU,ZN,NI,CR,AS,SB,S,MN,CA,FE,NA2O,MGO,AL2O3,SIO2,P,K2O,CAO,TI,V,ZR,CL

24.07.85 Aritm.

NO. OF CASES 1667
NO. OF VARIABLES 21

MEANS

33.19275 99.32213 91.00719 140.45892 14.89734 48.94322 1464.23511 1279.56519 202.85023 77714.93750
39631.59756 65688.31250 152607.43750 498633.68750 592.50000 3259.68579 82783.56250 7160.39063 317.66895 91.32845
23.79227

STANDARD DEVIATIONS

16.82057 119.78255 60.10490 104.18512 21.86172 75.49895 9310.51563 426.98804 171.38666 20025.16797
13059.30078 20668.64844 16566.35547 64791.33984 363.99829 5285.46094 30485.07422 2398.46045 105.34663 59.04724
74.26003

CORRELATION COEFFICIENTS

ROW 1
1.00 0.49 0.07 0.04 -0.01 0.06 0.33 0.19 0.00 0.25 -0.08 -0.01
-0.02 -0.13 0.02 0.00 -0.03 -0.01 -0.04 0.11 -0.01

ROW 2
0.69 1.00 0.00 -0.03 0.01 0.01 0.35 0.39 -0.04 0.30 -0.05 0.00
-0.02 -0.12 0.06 -0.02 -0.15 0.10 0.06 0.09 -0.08

ROW 3
0.07 0.00 1.00 -0.02 -0.14 0.01 -0.08 0.08 0.30 -0.08 -0.38 0.59
0.06 -0.42 -0.25 0.07 0.32 -0.25 -0.14 -0.31 -0.03

ROW 4
0.04 -0.03 -0.02 1.00 0.05 0.13 -0.02 0.00 -0.00 -0.03 -0.20 -0.03
0.13 -0.11 0.25 0.02 0.32 0.00 -0.00 0.15 0.02

ROW 5
-0.01 0.01 -0.14 0.06 1.00 0.03 0.17 -0.15 -0.03 -0.16 -0.09 -0.22
-0.11 0.26 -0.06 -0.02 0.01 -0.15 -0.15 0.01 0.04

ROW 6
0.06 0.01 0.01 0.13 0.03 1.00 0.00 -0.12 0.03 -0.24 -0.10 -0.11
0.06 0.23 0.10 0.63 -0.17 -0.26 -0.27 0.12 -0.01

ROW 7
0.33 0.35 -0.08 -0.02 0.17 0.00 1.00 0.10 -0.10 0.39 -0.11 -0.13
-0.25 -0.05 0.05 -0.03 -0.13 -0.03 -0.04 0.04 -0.03

ROW 8
0.19 0.39 0.08 0.00 -0.15 -0.12 0.10 1.00 0.02 0.55 -0.23 0.39

-0.16 -0.47 0.01 -0.24 0.12 0.38 0 -

	-0.16	-0.47	0.01	-0.24	0.12	0.38	0.35	-0.10	0.05			
ROW 9												
	0.00 0.06	-0.04 -0.31	0.80 -0.30	-0.00 0.09	-0.03 0.35	0.03 -0.36	-0.10 -0.27	0.02 -0.32	1.00 -0.02	-0.21	-0.41	0.59
ROW 10												
	0.25 -0.21	0.30 -0.51	-0.08 0.17	-0.03 -0.26	-0.16 -0.03	-0.24 0.63	0.39 0.66	0.55 -0.04	-0.21 0.07	1.00	-0.17	0.22
ROW 11												
	-0.08 0.14	-0.05 0.44	-0.38 0.30	-0.20 -0.20	-0.09 -0.52	-0.10 0.12	-0.11 0.01	-0.23 0.29	-0.41 -0.14	-0.17	1.00	-0.50
ROW 12												
	-0.01 0.02	0.00 -0.62	-0.39 -0.28	-0.03 -0.14	-0.22 0.31	-0.11 -0.01	-0.13 0.11	0.39 -0.40	0.59 0.10	0.22	-0.50	1.00
ROW 13												
	-0.02 1.00	-0.02 -0.25	0.05 0.01	0.13 0.22	-0.11 0.10	0.06 -0.06	-0.25 -0.02	-0.16 -0.07	0.06 -0.07	-0.21	0.14	0.02
ROW 14												
	-0.13 -0.25	-0.12 1.00	-0.42 0.08	-0.11 0.16	0.26 -0.60	0.23 -0.32	-0.05 -0.44	-0.47 0.35	-0.31 -0.05	-0.51	0.44	-0.62
ROW 15												
	0.02 0.01	0.06 0.08	-0.25 1.00	0.25 -0.02	-0.06 -0.24	0.10 0.37	0.05 0.11	0.01 0.53	-0.30 -0.08	0.17	0.30	-0.28
ROW 16												
	0.00 0.22	-0.02 0.16	0.07 -0.02	0.02 1.00	-0.02 -0.16	0.63 -0.24	-0.03 -0.20	-0.24 0.04	0.09 -0.01	-0.26	-0.20	-0.14
ROW 17												
	-0.03 0.10	-0.15 -0.60	0.32 -0.24	0.32 -0.16	0.01 1.00	-0.17 -0.03	-0.13 0.06	0.12 -0.31	0.35 0.16	-0.08	-0.52	0.31
ROW 18												
	-0.01 -0.06	0.10 -0.32	-0.25 0.37	0.00 -0.24	-0.15 -0.03	-0.26 1.00	-0.03 0.77	0.38 0.21	-0.36 0.14	0.63	0.12	-0.01
ROW 19												
	-0.04 -0.02	0.06 -0.44	-0.14 0.11	-0.00 -0.20	-0.15 0.06	-0.27 0.77	-0.04 1.00	0.35 -0.15	-0.27 0.11	0.66	0.01	0.11
ROW 20												
	0.11 -0.07	0.09 0.35	-0.31 0.53	0.15 0.04	0.01 -0.31	0.12 0.21	0.04 -0.15	-0.10 1.00	-0.32 -0.05	-0.04	0.29	-0.40

ROW 21

-0.01	-0.03	-0.03	0.02	0.04	-0.01	-0.03	0.05	-0.02	0.07	-0.14	0.10
-0.07	-0.05	-0.08	-0.01	0.16	0.14	0.11	-0.05	1.00			

EIGENVALUES

6.26881	3.58693	2.16254	1.69373	1.45742	1.28667	1.11697	0.93540	0.75446	0.74045
0.58659	0.52431	0.44214	0.36583	0.34193	0.24553	0.13085	0.16895	0.15072	0.12452
0.04284									

CUMULATIVE PERCENTAGE OF EIGENVALUES

0.19471	0.36551	0.46849	0.54914	0.61854	0.67981	0.73300	0.77755	0.81347	0.84873
0.37666	0.90172	0.92277	0.94019	0.95648	0.96817	0.97678	0.98482	0.99200	0.99793
0.99997									

EIGENVECTORS

VECTOR 1

-0.06222	0.06443	0.30607	0.02547	-0.10275	-0.13326	0.00568	0.26573	0.27605	0.21175
-0.31223	0.39923	0.01007	-0.42572	-0.16950	-0.10467	0.29945	0.07798	0.16968	-0.26501
0.07038									

VECTOR 2

0.11771	0.18405	-0.28335	-0.00851	-0.06635	-0.17015	0.13988	0.24919	-0.32030	0.40833
0.13671	-0.09299	-0.16044	-0.10253	0.23337	-0.20692	-0.12608	0.42997	0.36534	0.15314
0.02717									

VECTOR 3

0.50428	0.49884	0.08643	0.02018	0.11046	0.26036	0.41362	0.12748	0.08014	0.10052
-0.17086	-0.02369	-0.11880	0.04314	0.01067	0.20033	-0.13604	-0.18685	-0.21928	0.10271
-0.08425									

VECTOR 4

0.01892	-0.02170	0.02765	0.44554	-0.20437	0.37543	-0.19987	0.00112	-0.00577	-0.01823
-0.09289	0.00012	0.38336	-0.19414	0.37441	0.37207	0.13101	0.15511	0.08280	0.23840
0.00532									

VECTOR 5

-0.07873	-0.14694	-0.20210	0.42613	0.46570	-0.00337	0.19052	-0.05335	-0.12018	0.00043
-0.34472	-0.14737	-0.26327	0.03478	0.00285	-0.08186	0.36952	-0.00114	-0.01390	0.03436
0.02190									

VECTOR 6

-0.20+06	-0.14292	-0.10164	-0.31263	-0.03182	0.40260	0.01867	0.06545	-0.12062	0.16969
-0.20097	0.04465	-0.17913	0.07609	-0.20905	0.48428	-0.22655	0.10921	0.22519	-0.22414
0.30996									

VECTOR 7

0.22924	0.20220	-0.25493	-0.02825	0.14124	-0.09293	0.01538	-0.12982	-0.25118	-0.05917

0.07884	-0.22837	0.57005	-0.14555	-0.35689	0.10747	0.16358	-0.05385	0.14468	-0.36467
0.03869									
VECTOR 8									
0.27793	0.18753	0.01805	-0.08709	-0.15949	-0.05496	-0.31084	0.07262	0.03150	-0.17227
0.11831	0.06442	0.00464	0.11307	-0.05078	-0.10856	0.03510	0.03394	-0.13187	0.19896
0.78356									
VECTOR 9									
-0.00188	-0.15564	0.28867	-0.20563	0.17081	-0.15877	0.43810	-0.48086	0.24347	0.14694
0.12135	-0.04793	0.22433	-0.14340	0.26672	0.09316	-0.09174	0.11013	0.07346	0.05788
0.30329									
VECTOR 10									
-0.05950	0.18960	0.12118	-0.15201	0.74663	0.05991	-0.36859	0.20709	0.19217	-0.08575
0.03846	0.09598	0.13999	0.03993	0.08923	0.02773	-0.13965	0.20700	0.13869	0.07698
-0.09225									
VECTOR 11									
0.31459	0.05100	0.15930	-0.18844	-0.08348	-0.11643	-0.27438	-0.37782	0.04435	-0.08338
-0.18113	-0.28957	-0.34987	0.03021	-0.11789	0.20198	0.29930	0.24613	0.26049	0.16809
-0.32122									

FACTOR MATRIX (11 FACTORS)

VARIABLE 1									
0.12581	0.22294	0.74157	0.02462	-0.09504	-0.23146	0.24227	0.26880	-0.00163	-0.05120
0.24090									
VARIABLE 2									
0.13029	0.34857	0.73357	-0.02824	-0.18102	-0.16212	0.21370	0.18138	-0.13519	0.16315
0.03905									
VARIABLE 3									
0.21891	-0.47983	0.12711	0.03598	-0.24398	-0.11529	-0.26943	0.01745	0.25074	0.10428
0.12237									
VARIABLE 4									
0.05150	-0.01612	0.02968	0.57985	0.51450	-0.35462	-0.02986	-0.08423	-0.17861	-0.13080
-0.14430									
VARIABLE 5									
-0.20778	-0.12566	0.16244	-0.26598	0.58636	-0.03609	0.14927	-0.15425	0.14837	0.64247
-0.06393									
VARIABLE 6									
-0.26946	-0.32225	0.38287	0.43860	-0.00407	0.45667	-0.09822	-0.05316	-0.13791	0.05155
-0.08916									

VARIABLE 7									
0.01149	0.26493	0.60825	-0.26012	0.23000	0.02118	0.01625	-0.30063	0.38054	-0.31717
-0.21011									
VARIABLE 8									
0.53733	0.47194	0.19747	0.00146	-0.06441	0.07425	-0.13720	0.07024	-0.41767	0.17820
-0.28932									
VARIABLE 9									
0.55819	-0.60662	0.11785	-0.00751	-0.14509	-0.13682	-0.26546	0.03047	0.21147	0.16536
0.03396									
VARIABLE 10									
0.42818	0.77334	0.14782	-0.02372	0.00052	0.19248	-0.06253	-0.16661	0.12763	-0.07379
-0.06365									
VARIABLE 11									
-0.03135	0.25891	-0.25125	-0.12089	-0.41616	-0.22796	0.08332	0.11442	0.10541	0.03310
-0.13870									
VARIABLE 12									
0.30720	-0.17611	-0.03469	0.00016	-0.17791	0.05065	-0.24135	0.06230	-0.04164	0.08259
-0.22174									
VARIABLE 13									
0.22037	-0.19023	-0.17471	0.49892	-0.31783	-0.20319	0.60246	0.00449	0.19485	0.12046
-0.26791									
VARIABLE 14									
-0.36035	-0.19418	0.08344	-0.25266	0.04193	0.08631	-0.15383	0.10936	-0.12890	0.05157
0.02314									
VARIABLE 15									
-0.34273	0.44199	0.01569	0.48726	0.00344	-0.23712	-0.37718	-0.04911	0.23167	0.07678
-0.09028									
VARIABLE 16									
-0.21165	-0.39189	0.29460	0.48423	-0.09883	0.54932	0.11358	-0.10499	0.08092	0.02386
0.15457									
VARIABLE 17									
0.60552	-0.23878	-0.20005	0.17050	0.44609	-0.25698	0.17288	0.03395	-0.07969	-0.12016
0.22319									
VARIABLE 18									
0.15768	0.81432	-0.27477	0.20187	-0.00138	0.12388	-0.05691	0.03282	0.09566	0.17812
0.18848									
VARIABLE 19									
0.34311	0.69193	-0.32246	0.10776	-0.01678	0.25543	0.15290	-0.12754	0.06381	0.11934

0.19947									
VARIABLE 20									
-0.53587	0.29004	0.15104	0.31026	0.04148	-0.25425	-0.38540	0.19243	0.05896	0.06624
0.12871									
VARIABLE 21									
0.14232	0.05146	-0.12390	0.00693	0.38961	0.35161	0.04089	0.75783	0.26344	-0.07938
-0.16940									

ITERATION CYCLE	VARIANCES
0	0.209242
1	0.490875
2	0.592086
3	0.598059
4	0.598227
5	0.598232
6	0.598232
7	0.598232
8	0.598232
9	0.598232
10	0.598232

ROTATED FACTOR MATRIX (11 FACTORS)

VARIABLE 1	2	3	4	5	6	7	8	9	10
0.02487	0.00134	0.91499	0.04092	0.05508	0.01574	-0.01053	0.02620	0.14471	-0.05658
0.04404									
VARIABLE 2									
-0.01436	0.07602	0.87076	0.04292	-0.08951	0.01765	0.02990	-0.06730	0.11923	0.06397
-0.25161									
VARIABLE 3									
0.91234	-0.08465	0.05311	-0.10154	0.03428	0.02349	0.01080	-0.04218	-0.03092	-0.07370
0.04969									
VARIABLE 4									
-0.09272	-0.09393	-0.04067	0.32026	0.80285	0.07107	0.13222	-0.01760	0.04198	0.03057
-0.12859									
VARIABLE 5									
-0.09225	-0.11950	0.00086	-0.03077	0.04520	-0.00901	-0.05573	0.02632	0.07875	0.97223
0.05556									
VARIABLE 6									
-0.03680	-0.22812	0.01123	0.12837	0.02421	0.85388	0.00036	0.00582	-0.00370	0.00826

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	2	3	4	5	6	7	8	9	10
-0.11235									
VARIABLE 7									
-0.06564	0.01001	0.26328	0.00698	-0.01682	-0.00961	-0.14033	-0.01800	0.91489	0.09924
0.02060									
VARIABLE 8									
0.11182	0.36795	0.25640	-0.05764	0.06904	-0.09904	-0.11582	0.00944	-0.00420	-0.05726
-0.73746									
VARIABLE 9									
0.89264	-0.23471	-0.00964	-0.12600	0.06448	0.02398	0.01572	-0.01227	-0.05101	0.04580
0.01361									
VARIABLE 10									
0.00007	0.74313[illegible]	0.17858	0.03274	-0.02178	-0.11724	-0.12399	0.02207	0.42457	-0.10761
-0.30154									
VARIABLE 11									
-0.44042	-0.11096	-0.06166	0.34468	-0.52636	-0.28549	0.28998	-0.08425	-0.12344	-0.10872
0.11957									
VARIABLE 12									
0.72039	0.12436	-0.07042	-0.23701	0.08610	-0.07639	0.01825	0.08883	-0.02315	-0.15135
-0.44433									
VARIABLE 13									
0.03596	-0.01802	0.01613	-0.02975	0.07758	0.10838	0.94662	-0.03362	-0.13812	-0.05126
0.07823									
VARIABLE 14									
-0.49028	-0.54025	-0.10218	0.21446	-0.38199	0.14319	-0.27321	-0.00511	-0.12859	0.18024
0.18111									
VARIABLE 15									
-0.19105	0.19797	-0.04716	0.85633	0.03603	0.03990	0.09234	-0.06399	0.10340	-0.02418
-0.02057									
VARIABLE 16									
0.03996	-0.07545	0.01784	-0.04590	-0.04030	0.90203	0.11103	-0.00216	-0.02225	-0.01635
0.21918									
VARIABLE 17									
0.31903	0.09136	-0.01665	-0.30291	0.75648	-0.19512	0.01983	0.10468	-0.14729	0.01233
0.12825									
VARIABLE 18									
-0.15911	0.86208	0.01774	0.28344	-0.02744	-0.14869	-0.03289	0.09108	-0.10502	-0.03089
-0.03305									

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	1/11	2	3	4	5	6	7	8	9	10
VARIABLE 19										
	-0.10899	0.91436	-0.04108	-0.07315	0.00913	-0.10620	0.03150	0.01589	-0.05030	-0.03921
	-0.06063									
VARIABLE 20										
	-0.23654	-0.06587	0.15439	0.79842	-0.02781	0.04631	-0.14891	0.01115	-0.09536	-0.00428
	0.10379									
VARIABLE 21										
	-0.00277	0.07813	-0.03032	-0.04732	0.05606	0.00633	-0.03383	0.98927	-0.01308	0.02512
	-0.01575									

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.87028	0.87026	0.00001
2	0.86143	0.86141	0.00002
3	0.86516	0.86514	0.00002
4	0.80030	0.80028	0.00002
5	0.98615	0.98614	0.00002
6	0.81244	0.81243	0.00001
7	0.94149	0.94147	0.00002
8	0.86993	0.86991	0.00002
9	0.87789	0.87787	0.00002
10	0.89933	0.89931	0.00002
11	0.82001	0.81999	0.00002
12	0.83798	0.83796	0.00002
13	0.94559	0.94557	0.00002
14	0.91127	0.91124	0.00002
15	0.91913	0.91911	0.00002
16	0.88913	0.88911	0.00002
17	0.86215	0.86213	0.00002
18	0.90030	0.90028	0.00002
19	0.87536	0.87534	0.00002
20	0.76672	0.76670	0.00002
21	0.99332	0.99331	0.00002

ALL SAMPLES

24.07.85

Geom.

FACTOR ANALYSIS/RFAKT/LOKKEN/LOGAR
CU,ZN,NI,SR,AS,BA,S,MN,CR,FE,NA2O,MGO,AL2O3,SIO2,P,K2O,CAO,TI,V,ZR,CL

NO. OF CASES 1667
NO. OF VARIABLES 21

MEANS

1.09939	1.93723	1.87226	2.06529	1.31552	1.54631	2.58685	3.08062	2.12176	4.87229
4.56340	4.78415	5.18040	5.69586	2.71453	3.15694	4.87276	3.82445	2.46836	1.90775
1.63239									

STANDARD DEVIATIONS

0.38352	0.19322	0.30098	0.26551	0.28793	0.33791	0.58526	0.16637	0.47762	0.14052
0.19278	0.20251	0.05801	0.04257	0.23430	0.53584	0.24068	0.17982	0.21833	0.21150
0.46024									

CORRELATION COEFFICIENTS

ROW 1											
1.00	0.44	0.18	0.01	0.01	-0.09	0.39	0.36	0.15	0.31	-0.13	0.24
-0.09	-0.36	0.13	-0.15	0.18	0.21	0.24	-0.03	0.03			
ROW 2											
0.44	1.00	0.03	-0.15	-0.02	-0.09	0.32	0.45	-0.01	0.44	-0.03	0.21
0.01	-0.26	0.27	-0.14	-0.08	0.36	0.34	0.13	-0.03			
ROW 3											
0.18	0.03	1.00	0.05	-0.14	0.02	-0.29	0.29	0.76	0.12	-0.32	0.63
0.15	-0.57	-0.24	0.12	0.52	-0.05	0.19	-0.44	-0.00			
ROW 4											
0.01	-0.15	0.05	1.00	-0.02	0.06	-0.11	0.05	0.07	-0.02	-0.09	0.05
0.22	-0.19	0.08	0.07	0.44	0.06	0.05	0.01	-0.07			
ROW 5											
0.01	-0.02	-0.14	-0.02	1.00	0.05	0.09	-0.18	-0.00	-0.15	-0.11	-0.20
-0.13	0.17	-0.17	-0.02	-0.11	-0.19	-0.17	-0.08	0.05			
ROW 6											
-0.09	-0.09	0.02	0.06	0.05	1.00	-0.09	-0.23	0.09	-0.32	-0.14	-0.18
0.06	0.17	-0.14	0.71	-0.23	-0.37	-0.32	0.00	-0.10			
ROW 7											
0.39	0.32	-0.29	-0.11	0.09	-0.09	1.00	0.14	-0.28	0.25	-0.01	-0.12
-0.27	0.01	0.20	-0.22	-0.20	0.16	0.09	0.19	-0.04			
ROW 8											
0.36	0.45	0.29	0.05	-0.18	-0.23	0.14	1.00	0.13	0.72	-0.17	0.68

	-0.02	-0.64	0.20	-0.28	0.46	0.55	0.61	-0.08	0.10			
ROW 9	0.15 0.09	-0.01 -0.36	0.76 -0.35	0.07 0.15	-0.00 0.40	0.09 -0.24	-0.28 -0.10	0.13 -0.40	1.00 -0.03	-0.11	-0.32	0.47
ROW 10	0.31 -0.04	0.44 -0.62	0.12 0.41	-0.02 -0.31	-0.15 0.30	-0.32 0.75	0.25 0.80	0.72 0.03	-0.11 0.14	1.00	-0.12	0.58
ROW 11	-0.13 0.27	-0.03 0.37	-0.32 0.30	-0.09 -0.13	-0.11 -0.25	-0.14 0.17	-0.01 0.02	-0.17 0.32	-0.32 -0.10	-0.12	1.00	-0.29
ROW 12	0.24 0.13	0.21 -0.73	0.53 -0.06	0.05 -0.14	-0.20 0.56	-0.18 0.34	-0.12 0.53	0.68 -0.39	0.47 0.02	0.58	-0.29	1.00
ROW 13	-0.06 1.00	0.01 -0.25	0.15 0.02	0.22 0.19	-0.13 0.19	0.06 0.15	-0.27 0.14	-0.02 -0.08	0.09 -0.21	-0.04	0.27	0.15
ROW 14	-0.36 -0.25	-0.26 1.00	-0.57 -0.02	-0.19 0.09	0.17 -0.06	0.17 -0.42	0.01 -0.58	-0.64 0.31	-0.36 -0.13	-0.62	0.37	-0.72
ROW 15	0.13 0.02	0.27 -0.02	-0.24 1.00	0.03 -0.15	-0.17 -0.06	-0.14 0.63	0.20 0.36	0.20 0.66	-0.35 -0.14	0.41	0.30	-0.05
ROW 16	-0.15 0.19	-0.14 0.09	0.12 -0.15	0.07 1.00	-0.02 -0.13	0.71 -0.28	-0.22 -0.23	-0.28 -0.06	0.15 0.05	-0.31	-0.13	-0.14
ROW 17	0.18 0.19	-0.08 -0.68	0.52 -0.06	0.44 -0.13	-0.11 1.00	-0.23 0.26	-0.20 0.42	0.46 -0.39	0.40 0.19	0.30	-0.25	0.56
ROW 18	0.21 0.15	0.36 -0.42	-0.05 0.63	0.06 -0.28	-0.19 0.26	-0.37 1.00	0.16 0.79	0.55 0.39	-0.24 0.12	0.75	0.17	0.34
ROW 19	0.24 0.14	0.34 -0.58	0.19 0.56	0.05 -0.23	-0.17 0.42	-0.32 0.79	0.09 1.00	0.51 -0.06	-0.10 0.14	0.80	0.02	0.53
ROW 20	-0.03 -0.08	0.13 0.31	-0.44 0.66	0.01 -0.06	-0.08 -0.39	0.00 0.39	0.19 -0.06	-0.08 1.00	-0.40 -0.09	0.03	0.32	-0.39

ROW 21

0.03	-0.03	-0.00	-0.07	0.05	-0.10	-0.04	0.10	-0.03	0.14	-0.10	0.02
-0.21	-0.13	-0.14	0.05	0.19	0.12	0.14	-0.09	1.00			

EIGENVALUES

3.47440	3.78234	1.92036	1.58816	1.25582	1.17471	0.95835	0.81180	0.80325	0.54599
0.49403	0.41998	0.36410	0.27607	0.23106	0.22832	0.20056	0.17402	0.13796	0.08917
0.06900									

CUMULATIVE PERCENTAGE OF EIGENVALUES

0.26069	0.44080	0.53224	0.60787	0.66767	0.72361	0.76924	0.80790	0.84615	0.87215
0.89568	0.91567	0.93301	0.94616	0.95716	0.96803	0.97759	0.98587	0.99244	0.99569
0.99997									

EIGENVECTORS

VECTOR 1

0.19012	0.18543	0.20427	0.05565	-0.09573	-0.16190	0.03994	0.35672	0.10578	0.35520
-0.09356	0.34446	0.05532	-0.36303	0.10621	-0.13498	0.27894	0.29209	0.34477	-0.07645
0.05886									

VECTOR 2

-0.04410	-0.16873	0.35195	0.08558	0.02419	0.15053	-0.24452	-0.04244	0.38164	-0.17603
-0.24277	0.18011	0.07855	-0.14969	-0.36362	0.19183	0.21055	-0.29225	-0.13702	-0.36805
0.02269									

VECTOR 3

-0.28123	-0.20621	0.02995	0.30625	-0.27376	0.08462	-0.37431	-0.07979	-0.03642	-0.05632
0.31143	0.01088	0.46991	-0.03187	0.23425	0.19197	0.14651	0.18846	0.10752	0.16542
-0.15757									

VECTOR 4

0.28279	0.35673	0.08579	-0.01017	-0.05633	0.56283	0.18806	0.06051	0.09684	0.03013
-0.13264	0.00488	0.10390	-0.06308	0.16941	0.49095	-0.20522	-0.00325	-0.03823	0.17244
-0.20080									

VECTOR 5

-0.13583	-0.21318	-0.18582	0.28556	0.13549	0.23865	-0.02057	0.01189	-0.23250	0.12416
-0.25933	-0.11604	-0.22992	-0.06169	0.02859	0.31756	0.17229	0.12718	0.12615	0.05881
0.59539									

VECTOR 6

0.29701	-0.05033	-0.09490	0.56685	0.31374	-0.07461	0.25984	-0.05451	0.02472	-0.12361
-0.11239	-0.13576	0.07658	-0.04829	0.08064	-0.19582	0.26159	-0.06665	-0.14078	0.06540
-0.28978									

VECTOR 7

-0.09828	-0.20498	0.15937	0.10040	-0.50656	-0.02722	-0.04158	0.06560	0.18722	-0.02144

-0.27977	0.05041	-0.52332	0.05976	0.25530	-0.10677	0.03300	-0.03227	-0.19497	0.33453
-0.16446									
VECTOR 8									
-0.47861	-0.07989	-0.17096	0.00732	0.18779	0.13620	0.00024	0.11105	-0.26408	0.23196
-0.35394	0.16794	-0.03096	-0.02761	-0.05325	-0.02498	-0.13476	-0.01649	0.14752	-0.19050
-0.55612									
VECTOR 9									
-0.14082	0.08723	0.20633	-0.11649	0.67447	-0.03339	-0.36281	-0.01975	0.32412	-0.00775
-0.02176	0.03887	-0.11975	0.06864	0.26835	-0.02012	-0.03454	0.15486	-0.00495	0.32337
-0.00291									
VECTOR 10									
-0.13077	0.66166	-0.21007	0.27706	-0.14820	-0.10516	-0.42418	0.19358	-0.05862	-0.08024
-0.20737	-0.05125	0.06301	0.03715	-0.15893	-0.13092	-0.09171	-0.09729	-0.17728	0.05609
0.13439									

FACTOR MATRIX (10 FACTORS)

VARIABLE 1									
0.44483	-0.08578	-0.38972	0.35638	-0.15222	0.32191	-0.09621	-0.43123	-0.12621	-0.09663
VARIABLE 2									
0.43386	-0.32815	-0.28576	0.44956	-0.23890	-0.05455	-0.20066	-0.07198	0.07818	0.48891
VARIABLE 3									
0.47794	0.68448	0.04150	0.10812	-0.20824	-0.10285	0.15602	-0.15404	0.18492	-0.15523
VARIABLE 4									
0.13020	0.16644	0.42439	-0.01281	0.32001	0.72276	0.09829	0.00660	-0.10440	0.20472
VARIABLE 5									
-0.22399	0.04705	-0.37956	-0.07099	0.15163	0.34004	-0.49590	0.16920	0.60449	-0.10950
VARIABLE 6									
-0.37879	0.29276	0.11726	0.70929	0.26744	-0.08087	-0.02665	0.12280	-0.02993	-0.07771
VARIABLE 7									
0.09345	-0.47555	-0.51971	0.23699	-0.02306	0.28162	-0.04071	0.00022	-0.32517	-0.31343
VARIABLE 8									
0.83462	-0.08254	-0.11057	0.07626	0.01333	-0.05908	0.06422	0.10006	-0.01770	0.14304
VARIABLE 9									
0.24751	0.74223	-0.05047	0.12204	-0.26055	0.02680	0.18328	-0.23793	0.29049	-0.04332
VARIABLE 10									
0.83107	-0.34234	-0.07605	0.03797	0.13914	-0.13398	-0.02099	0.20900	-0.00695	-0.05929

VARIABLE 11									
-0.21890	-0.47214	0.43157	-0.16716	-0.32312	-0.12236	-0.27388	-0.31890	-0.01950	-0.15323
VARIABLE 12									
0.30594	0.35028	0.01508	0.00615	-0.13004	-0.14714	0.04935	0.15131	0.03484	-0.03787
VARIABLE 13									
0.12943	0.15277	0.67891	0.13094	-0.25766	0.08300	-0.51231	-0.03510	-0.10733	0.04656
VARIABLE 14									
-0.04939	-0.29113	-0.04416	-0.08202	-0.06909	-0.05234	0.05851	-0.02488	0.06152	0.02745
VARIABLE 15									
0.24850	-0.70717	0.32461	0.21349	0.03204	0.08741	0.24992	-0.05249	0.24051	-0.11744
VARIABLE 16									
-0.31592	0.37308	0.26603	0.61871	0.35587	-0.21224	-0.10452	-0.02251	-0.01803	-0.09674
VARIABLE 17									
0.65264	0.42505	0.20302	-0.25362	0.19308	0.28352	0.03231	-0.12142	-0.03096	-0.06776
VARIABLE 18									
0.08342	-0.56038	0.26117	-0.00409	0.14252	-0.07224	-0.03159	-0.01486	0.13879	-0.07189
VARIABLE 19									
0.50668	-0.26647	0.14900	-0.04218	0.14137	-0.15259	-0.19087	0.13291	-0.00443	-0.13099
VARIABLE 20									
-0.17887	-0.71579	0.22923	0.21731	0.06590	0.07088	0.32749	-0.17164	0.28932	0.04145
VARIABLE 21									
0.13777	0.04414	-0.21835	-0.25306	0.66722	-0.31407	-0.16100	-0.50106	-0.00261	0.09930

ITERATION CYCLE	VARIANCES
0	0.227761
1	0.416509
2	0.509607
3	0.531481
4	0.544920
5	0.547693
6	0.547952
7	0.547960
8	0.547960
9	0.547960
10	0.547960
11	0.547960

ROTATED FACTOR MATRIX (10 FACTORS)

	1	2	3	4	5	6	7	8	9	10
VARIABLE 1	0.17204	0.26462	-0.78468	-0.06136	-0.02800	0.07872	-0.01769	-0.09572	0.04632	0.30606
VARIABLE 2	0.32160	-0.01095	-0.25136	-0.02705	-0.01798	-0.13411	-0.02411	0.03834	0.12038	0.85322
VARIABLE 3	0.23103	0.87323	0.02834	0.08410	0.00477	0.00617	0.07573	0.02373	-0.19659	-0.04298
VARIABLE 4	0.01500	0.01086	0.02485	0.05074	-0.04392	0.94685	-0.00048	0.05179	0.06418	-0.05851
VARIABLE 5	-0.14312	-0.05250	-0.04371	-0.01140	0.07273	-0.00586	-0.97645	-0.02576	-0.08378	0.01444
VARIABLE 6	-0.21667	0.00871	-0.00281	0.88598	0.06251	0.01170	-0.01704	0.09811	-0.02233	0.01863
VARIABLE 7	0.11331	-0.34822	-0.79962	-0.06475	0.18866	-0.11052	-0.04406	0.11916	0.06255	0.00400
VARIABLE 8	0.74070	0.19023	-0.11249	-0.15189	0.15111	0.07227	0.12105	-0.01158	0.00485	0.29070
VARIABLE 9	-0.06714	0.90681	0.02723	0.06810	0.06133	0.05153	-0.03025	0.03011	-0.17892	0.05104
VARIABLE 10	0.90068	-0.04930	-0.14013	-0.14165	0.11343	-0.04664	0.03403	-0.02759	0.12895	0.11586
VARIABLE 11	-0.16525	-0.23422	0.00500	-0.21751	-0.70065	-0.22499	0.09045	-0.02802	0.33829	-0.10249
VARIABLE 12	0.66802	0.52571	0.04599	-0.08200	0.04672	0.02001	0.11001	0.09470	-0.22787	0.06970
VARIABLE 13	0.13937	0.03025	0.14544	0.17886	-0.82212	0.24020	0.03429	0.18240	-0.11654	0.08256
VARIABLE 14	-0.71686	-0.42720	0.12642	0.00114	0.01551	-0.25285	-0.07055	0.04989	0.15901	-0.08567
VARIABLE 15	0.32075	-0.16615	-0.09164	-0.04330	-0.08185	0.03990	0.05727	0.11761	0.83170	0.02007
VARIABLE 16	-0.15656	0.09335	0.10549	0.90427	-0.08807	0.01254	0.02914	-0.10531	-0.03731	-0.05291

	1	2	3	4	5	6	7	8	9	10
VARIABLE 17	0.45331	0.46402	-0.00178	-0.17401	-0.04868	0.53739	0.03181	-0.18557	-0.19145	-0.19835
VARIABLE 18	0.75798	-0.11319	-0.04453	-0.17672	-0.16972	0.03803	0.02847	-0.11031	0.49272	0.05417
VARIABLE 19	0.89631	-0.01848	-0.04659	-0.11637	-0.15616	0.00118	0.00756	-0.09303	0.09094	-0.00127
VARIABLE 20	-0.11597	-0.27290	-0.01377	0.00223	0.01990	-0.01314	0.04381	0.02193	0.88051	0.09745
VARIABLE 21	0.12293	-0.03933	0.01829	0.00793	0.11513	-0.02049	-0.02592	-0.96106	-0.08763	-0.02424

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.83140	0.83138	0.00002
2	0.93032	0.93029	0.00002
3	0.87065	0.87064	0.00002
4	0.91222	0.91221	0.00002
5	0.99196	0.99194	0.00002
6	0.84682	0.84680	0.00002
7	0.84557	0.84555	0.00002
8	0.76003	0.76001	0.00002
9	0.87467	0.87465	0.00002
10	0.90039	0.90037	0.00002
11	0.80496	0.80494	0.00002
12	0.83904	0.83901	0.00002
13	0.86881	0.86878	0.00002
14	0.83098	0.83096	0.00002
15	0.88032	0.88029	0.00002
16	0.88531	0.88529	0.00002
17	0.88571	0.88569	0.00003
18	0.90952	0.90949	0.00002
19	0.86081	0.86079	0.00002
20	0.87591	0.87589	0.00002
21	0.96332	0.96330	0.00002

GRÖNST
LINEAR

A-Eftertrisk

31.10.85

FACTOR ANALYSIS/FAKT/LOKKEN
CU,ZN,NI,SP,AS,BA,S,MN,CR,FE,NA2O,MGO,AL203,SIO2,P,K2O,CAO,TI,V,ZR,CL

NO. OF CASES 1542
NO. OF VARIABLES 21

MEANS

84.46917 100.50844 92.10324 133.57480 12.48164 42.39441 920.88306 1703.32446 204.95486 114220.00000
40156.98439 67636.81250 152578.06250 490657.25000 1367.39868 2646.22754 82746.81250 12521.55859 330.73145 87.89262
10.81378

STANDARD DEVIATIONS

1104.82031 103.94249 60.42586 36.42836 19.61816 54.94698 4172.90234 469.62842 158.94930 20544.34141
19230.32813 17869.03516 13794.05469 37060.65234 533.02637 4951.11719 26824.92188 3158.22266 76.45166 33.70120
43.97852

CORRELATION COEFFICIENTS

ROW 1
1.00 -0.80 0.07 0.05 -0.02 0.10 0.73 0.21 0.00 0.33 -0.09 -0.02
-0.01 -0.20 0.03 0.01 -0.03 -0.02 -0.07 0.21 -0.01

ROW 2
0.80 1.00 0.02 0.01 0.01 0.08 0.72 0.33 -0.03 0.33 -0.03 -0.04
0.03 -0.13 0.08 0.01 -0.15 0.04 -0.01 0.23 -0.07

ROW 3
0.07 0.02 1.00 0.02 -0.08 0.14 -0.06 0.02 0.83 -0.21 -0.38 0.53
0.00 -0.38 -0.33 0.17 0.26 -0.43 -0.31 -0.35 -0.03

ROW 4
0.05 0.01 0.02 1.00 0.04 0.05 0.02 0.05 0.03 0.04 -0.31 0.04
0.07 -0.21 0.02 -0.01 0.37 0.01 0.01 -0.01 -0.01

ROW 5
-0.02 0.01 -0.08 0.04 1.00 -0.04 0.06 -0.09 -0.01 -0.14 -0.05 -0.13
0.03 0.11 -0.05 -0.03 0.11 -0.04 -0.07 -0.03 -0.04

ROW 6
0.10 0.08 0.14 0.06 -0.04 1.00 0.09 0.03 0.16 -0.11 -0.22 0.14
0.09 -0.04 -0.07 0.53 -0.07 -0.18 -0.17 -0.04 0.00

ROW 7
0.73 0.72 -0.06 0.02 0.06 0.09 1.00 0.16 -0.10 0.27 0.00 -0.09
-0.07 -0.05 0.06 -0.04 -0.11 0.05 -0.04 0.24 -0.03

ROW 8
0.21 0.33 0.02 0.05 -0.09 0.03 0.16 1.00 0.02 0.45 -0.23 0.34

	-0.21	-0.36	-0.06	-0.18	0.06	0.23	0.16	0.08	0.04			
ROW 9												
	0.00	-0.03	0.83	0.03	-0.01	0.16	-0.10	0.02	1.00	-0.28	-0.41	0.58
	0.01	-0.34	-0.36	0.18	0.29	-0.47	-0.40	-0.40	-0.03			
ROW 10												
	0.33	0.33	-0.21	0.04	-0.14	-0.11	0.27	0.45	-0.28	1.00	-0.13	0.12
	-0.18	-0.31	0.23	-0.15	-0.23	0.60	0.62	0.31	0.11			
ROW 11												
	-0.09	-0.02	-0.38	-0.31	-0.05	-0.22	0.00	-0.23	-0.41	-0.13	1.00	-0.53
	0.11	0.57	0.29	-0.29	-0.51	0.10	0.06	0.22	-0.06			
ROW 12												
	-0.02	-0.04	0.53	0.04	-0.13	0.14	-0.09	0.34	0.56	0.12	-0.53	1.00
	-0.14	-0.49	-0.34	-0.03	0.10	-0.15	-0.13	-0.31	0.05			
ROW 13												
	-0.01	0.03	0.00	0.07	0.03	0.09	-0.07	-0.21	0.01	-0.16	0.11	-0.14
	1.00	-0.13	-0.12	0.30	-0.08	-0.16	-0.03	-0.16	-0.13			
ROW 14												
	-0.20	-0.13	-0.33	-0.21	0.11	-0.04	-0.05	-0.36	-0.34	-0.31	0.57	-0.49
	-0.13	1.00	0.25	-0.06	-0.55	-0.06	-0.16	0.27	0.02			
ROW 15												
	0.03	0.06	-0.33	0.02	-0.05	-0.07	0.06	-0.06	-0.36	0.23	0.29	-0.34
	-0.12	0.25	1.00	-0.05	-0.29	0.51	0.21	0.63	-0.00			
ROW 16												
	0.01	0.01	0.17	-0.01	-0.06	0.68	-0.04	-0.18	0.18	-0.15	-0.29	-0.03
	0.30	-0.06	-0.06	1.00	-0.07	-0.17	-0.07	-0.11	-0.01			
ROW 17												
	-0.03	-0.15	-0.26	0.37	0.11	-0.07	-0.11	0.06	0.29	-0.23	-0.51	0.10
	-0.08	-0.55	-0.29	-0.07	1.00	-0.14	-0.12	-0.28	0.06			
ROW 18												
	-0.02	0.04	-0.43	0.01	-0.04	-0.18	0.05	0.23	-0.47	0.60	0.10	-0.15
	-0.16	-0.06	0.51	-0.17	-0.14	1.00	0.68	0.56	0.13			
ROW 19												
	-0.07	-0.01	-0.31	0.01	-0.07	-0.17	-0.04	0.15	-0.40	0.62	0.06	-0.13
	-0.03	-0.16	0.21	-0.07	-0.12	0.68	1.00	0.11	0.06			
ROW 20												
	0.21	0.23	-0.35	-0.01	-0.03	-0.04	0.24	0.03	-0.40	0.31	0.22	-0.31
	-0.16	0.27	0.63	-0.11	-0.28	0.58	0.11	1.00	0.06			

ROW 21

-0.01	-0.07	-0.03	-0.01	-0.04	0.00	-0.03	0.04	-0.03	0.11	-0.06	0.05
-0.13	0.02	-0.00	-0.01	0.05	0.13	0.06	0.06	1.00			

EIGENVALUES

4.42726	3.23828	2.35609	1.62181	1.49140	1.26064	1.02189	0.93174	0.84675	0.70929
0.63865	0.47195	0.42180	0.35763	0.28322	0.22508	0.19508	0.16535	0.15048	0.11469
0.07236									

CUMULATIVE PERCENTAGE OF EIGENVALUES

0.21082	0.36503	0.47722	0.55445	0.62547	0.68550	0.73416	0.77853	0.81885	0.85263
0.88304	0.90551	0.92560	0.94263	0.95611	0.96683	0.97603	0.98390	0.99107	0.99653
0.99997									

EIGENVECTORS

VECTOR 1

-0.05028	-0.08364	0.35795	0.06856	0.00546	0.12407	-0.10401	-0.01167	0.36503	-0.21409
-0.27348	0.27988	0.05603	-0.21535	-0.30693	0.13082	0.23845	-0.32753	-0.23089	-0.32387
-0.02444									

VECTOR 2

0.27300	0.36958	0.09752	0.11244	-0.06333	0.04563	0.31502	0.35533	0.06180	0.38303
-0.26911	0.21711	-0.10064	-0.34552	-0.00237	-0.02909	0.08823	0.17302	0.14671	0.09700
0.03085									

VECTOR 3

-0.38444	-0.38777	-0.04421	0.10803	-0.06494	-0.22257	-0.39229	0.13760	-0.04137	0.18307
-0.15023	0.17353	-0.14980	-0.21387	0.00472	-0.19316	0.21343	0.29465	0.33370	-0.07161
0.12548									

VECTOR 4

-0.10716	-0.08966	-0.03552	0.06202	-0.17085	0.51516	-0.13520	-0.08040	-0.05040	0.10246
-0.16488	-0.01937	0.30639	-0.08275	0.13456	0.63297	-0.14070	0.15616	0.20865	0.06380
0.03158									

VECTOR 5

0.08081	0.03221	-0.21300	0.51537	0.35546	-0.00967	0.08799	-0.16801	-0.19423	-0.11473
-0.15506	-0.34478	0.24676	-0.15187	-0.01078	0.02776	0.47250	0.00851	0.03151	-0.02222
-0.10395									

VECTOR 6

-0.02530	-0.09820	0.07911	0.22019	0.09457	0.21121	0.00129	-0.04414	0.12125	-0.14691
-0.21120	0.03320	-0.49474	0.19978	0.34655	0.04798	0.15584	0.07044	-0.30699	0.40648
0.31981									

VECTOR 7

0.02004	0.00495	-0.25153	-0.20499	0.29947	0.16649	0.10463	0.07793	-0.20170	0.04783

-0.07215	-0.04646	-0.14099	0.11409	-0.41055	0.09558	0.00570	-0.07434	0.09652	-0.25489
0.64757									

VECTOR 8

0.14917	0.01933	0.04555	0.18081	-0.70826	-0.17987	0.03343	-0.18647	-0.03813	-0.04611
0.14027	-0.14357	0.16602	-0.08308	-0.00158	-0.04958	0.15085	-0.08512	-0.06162	-0.01349
0.50788									

VECTOR 9

0.08097	0.02623	0.38249	-0.28586	0.38477	-0.29252	0.02762	-0.39631	0.30148	0.06494
0.01518	-0.02378	0.25564	-0.12660	0.20216	0.06374	-0.01097	0.19207	0.16812	0.10855
0.30995									

VECTOR 10

0.09067	-0.02852	0.03744	-0.43545	-0.22206	-0.00579	0.12237	-0.29108	-0.06511	-0.04763
-0.13491	-0.30584	-0.48623	-0.10466	-0.03904	0.20499	0.34158	0.04236	0.20211	-0.09830
-0.26967									

FACTOR MATRIX (10 FACTORS)

VARIABLE 1									
-0.10579	0.67137	-0.59010	-0.13646	0.09868	-0.02841	0.02026	0.14399	0.07451	0.07636
VARIABLE 2									
-0.17699	0.66508	-0.59521	-0.11419	0.03933	-0.11026	0.00501	0.01866	0.02413	-0.02402
VARIABLE 3									
0.75316	0.17549	-0.06787	-0.04324	-0.26012	0.08883	-0.25427	0.04397	0.32435	0.03153
VARIABLE 4									
0.14425	0.20233	0.16275	0.07698	0.62938	0.24722	-0.20722	0.17453	-0.26304	-0.36673
VARIABLE 5									
0.01149	-0.11406	-0.09969	-0.21758	0.43409	0.10618	0.30273	-0.68366	0.35406	-0.18702
VARIABLE 6									
0.26106	0.08193	-0.34164	0.65606	-0.08503	0.23714	0.16830	-0.17362	-0.26917	-0.00467
VARIABLE 7									
-0.21885	0.56683	-0.60215	-0.17217	0.10746	0.00145	0.10577	0.05227	0.02541	0.10306
VARIABLE 8									
-0.02456	0.64481	0.21121	-0.10239	-0.20517	-0.04956	0.07878	-0.17999	-0.36468	-0.24515
VARIABLE 9									
0.81015	0.11120	-0.06350	-0.06418	-0.23720	0.13625	-0.20390	-0.03680	0.27742	-0.06403
VARIABLE 10									
-0.45172	0.68927	0.28100	0.13048	-0.14011	-0.16495	0.04635	-0.04451	0.05975	-0.04011

VARIABLE 11									
-0.57543	-0.47707	-0.23988	-0.20972	-0.18936	-0.23714	-0.07293	0.13540	0.01397	-0.11362
VARIABLE 12									
0.58890	0.39069	0.26636	-0.02467	-0.42106	0.03727	-0.04696	-0.13858	-0.02188	-0.25758
VARIABLE 13									
0.11769	-0.18110	-0.22994	0.39018	0.30135	-0.55548	-0.14252	0.16026	0.23524	-0.40950
VARIABLE 14									
-0.45511	-0.62177	-0.33595	-0.10538	-0.18546	0.22431	0.11533	-0.08019	-0.11649	-0.08814
VARIABLE 15									
-0.64591	-0.00427	0.00725	0.17136	-0.01316	0.38910	-0.41502	-0.00153	0.18602	-0.03286
VARIABLE 16									
0.27525	-0.05235	-0.29549	0.80609	0.03390	0.05387	0.09662	-0.04785	0.05866	0.17264
VARIABLE 17									
0.50172	0.15877	0.32760	-0.19064	0.57703	0.17457	0.00576	0.14561	-0.01009	0.25767
VARIABLE 18									
-0.68916	0.31135	0.45227	0.20142	0.01039	0.07909	-0.07515	-0.08217	0.17674	0.03567
VARIABLE 19									
-0.46579	0.26400	0.51221	0.26571	0.03848	-0.34468	0.09757	-0.05948	0.15470	0.17022
VARIABLE 20									
-0.68145	0.17456	-0.10992	0.08125	-0.02713	0.45639	-0.25766	-0.01302	0.09988	-0.08279
VARIABLE 21									
-0.05142	0.06631	0.19261	0.04021	-0.12694	0.35795	0.65442	0.49024	0.28521	-0.22711

ITERATION CYCLE	VARIANCES
0	0.208713
1	0.466579
2	0.554429
3	0.574297
4	0.579114
5	0.580876
6	0.583429
7	0.588058
8	0.592887
9	0.594511
10	0.594889
11	0.594987
12	0.595015
13	0.595021

14	0.595023
15	0.595022
16	0.595022
17	0.595021
18	0.595021

ROTATED FACTOR MATRIX (10 FACTORS)

	I	II	III	IV	V	VI	VII	VIII	IX	X
VARIABLE 1	0.06398	0.02107	-0.92660	0.02039	0.05636	0.04676	0.01934	0.04523	0.00843	-0.02067
VARIABLE 2	0.01440	0.04881	-0.90288	0.02690	-0.04609	0.06409	-0.05884	-0.00638	0.06956	-0.15070
VARIABLE 3	0.82187	-0.19359	-0.03518	0.05672	0.05342	-0.14366	-0.02110	0.07088	0.01007	0.06565
VARIABLE 4	-0.09161	-0.13713	0.01120	0.01199	0.81413	0.17685	0.01679	-0.00165	0.23703	-0.22527
VARIABLE 5	-0.05413	-0.06207	-0.02239	-0.04186	0.04702	-0.02930	-0.02146	-0.98675	0.01405	0.05498
VARIABLE 6	0.03943	-0.18549	-0.06656	0.86954	0.00179	-0.00701	0.00522	0.01605	-0.01156	-0.16260
VARIABLE 7	-0.08506	-0.00260	-0.38074	0.02318	-0.02043	0.05717	0.00249	-0.05868	-0.07356	-0.01739
VARIABLE 8	0.06758	0.26490	-0.22476	-0.05038	0.09328	-0.06185	-0.02112	0.05361	-0.16830	-0.79877
VARIABLE 9	0.86691	-0.28513	0.03351	0.03009	0.07025	-0.16857	-0.00678	-0.02574	0.00801	-0.00500
VARIABLE 10	-0.03789	0.73964	-0.30459	-0.06460	-0.03075	0.18824	0.07884	0.08220	-0.03254	-0.36840
VARIABLE 11	-0.46990	-0.16882	0.03334	-0.34729	-0.54638	0.18969	-0.03886	0.11101	0.20954	0.16049
VARIABLE 12	0.69308	0.03427	0.09904	0.04560	0.03625	-0.18936	0.05832	0.04877	-0.07416	-0.54406
VARIABLE 13	-0.01490	0.00050	-0.00191	0.13292	0.01100	-0.13411	-0.07472	-0.01661	0.92481	0.10178
VARIABLE 14	-0.49864	-0.45118	0.15448	-0.01293	-0.49488	0.28597	0.06692	-0.10741	-0.08907	0.12139

	I	II	III	IV	V	VI	VII	VIII	IX	X
VARIABLE 15	-0.16571	0.15646	-0.00174	-0.03192	-0.06655	0.85420	-0.04824	0.04234	-0.01987	0.12061
VARIABLE 16	0.11725	0.01973	0.00669	0.36855	-0.00696	-0.04642	-0.00297	0.03928	0.18418	0.24257
VARIABLE 17	0.20837	0.00370	0.05646	-0.10925	0.79609	-0.29740	0.01041	-0.06392	-0.22333	0.23106
VARIABLE 18	-0.22251	0.72459	0.03909	-0.09847	0.01275	0.51053	0.07285	-0.02192	-0.08974	-0.08846
VARIABLE 19	-0.22485	0.87059	0.03956	-0.05584	-0.03335	0.03931	0.00593	0.02747	0.04176	-0.00749
VARIABLE 20	-0.22091	0.11426	-0.21388	-0.01903	-0.00231	0.82238	0.05325	-0.00490	-0.11540	-0.02758
VARIABLE 21	-0.00325	0.06598	0.02832	0.00487	0.01728	0.00750	0.99033	0.02066	-0.06901	-0.00034

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.87184	0.87182	0.00002
2	0.86585	0.86582	0.00002
3	0.86303	0.86299	0.00004
4	0.82880	0.82876	0.00004
5	0.98950	0.98947	0.00003
6	0.81641	0.81638	0.00003
7	0.79653	0.79651	0.00002
8	0.74772	0.74768	0.00004
9	0.67459	0.67455	0.00004
10	0.83145	0.83143	0.00004
11	0.78908	0.78904	0.00004
12	0.83792	0.83788	0.00004
13	0.92020	0.92017	0.00004
14	0.84165	0.84161	0.00005
15	0.80613	0.80610	0.00003
16	0.86511	0.86508	0.00003
17	0.88826	0.88822	0.00005
18	0.86828	0.86824	0.00004
19	0.82491	0.82487	0.00003
20	0.80594	0.80591	0.00003
21	0.99152	0.99149	0.00003

GRÖNSTI, LOGAR.

Geometrisk

31.10.85

FACTOR ANALYSIS/FRAKT/LOKKEN
CU,ZN,NI,SR,AS,BA,S,MN,CR,FE,NA2O,MGO,AL2O3,SIO2,P,K2O,CAO,TI,V,ZR,CL

NO. OF CASES 1542
NO. OF VARIABLES 21

MEANS

1.63496	1.95977	1.88523	2.05330	1.25598	1.52015	2.60482	3.21506	2.15734	5.05028
4.57648	4.81234	5.18116	5.68959	3.10880	3.11094	4.88845	4.08248	2.50524	1.91647
1.71588									

STANDARD DEVIATIONS

0.33644	0.15875	0.27257	0.25132	0.27456	0.31043	0.59862	0.12487	0.44958	0.08286
0.17755	0.13459	0.03917	0.03217	0.15638	0.51267	0.17974	0.12022	0.12640	0.15540
0.45048									

CORRELATION COEFFICIENTS

ROW 1	1.00	0.33	0.11	0.05	0.04	-0.01	0.30	0.20	0.16	0.05	-0.13	0.11
	-0.01	-0.27	-0.09	-0.07	0.19	0.03	0.06	-0.03	-0.13			
ROW 2	0.33	1.00	-0.09	-0.12	0.04	-0.00	0.27	0.29	-0.07	0.30	-0.05	-0.01
	0.04	-0.11	0.17	-0.06	-0.24	0.23	0.18	0.19	-0.15			
ROW 3	0.11	-0.09	1.00	0.07	-0.04	0.13	-0.34	0.07	0.77	-0.23	-0.35	0.47
	0.11	-0.46	-0.39	0.24	0.42	-0.38	-0.18	-0.41	0.02			
ROW 4	0.05	-0.12	0.07	1.00	-0.02	0.05	-0.03	0.06	-0.08	0.03	-0.13	0.07
	0.12	-0.32	0.01	0.06	0.46	0.06	0.07	0.01	-0.11			
ROW 5	0.04	0.04	-0.04	-0.02	1.00	-0.02	0.02	-0.13	0.06	-0.11	-0.04	-0.10
	0.01	0.09	-0.09	-0.06	0.02	-0.08	-0.07	-0.07	-0.13			
ROW 6	-0.01	-0.00	0.13	0.05	-0.02	1.00	-0.03	-0.06	0.16	-0.15	-0.24	0.08
	0.11	-0.08	-0.12	0.56	-0.08	-0.22	-0.21	-0.12	-0.06			
ROW 7	0.30	0.27	-0.34	-0.03	0.02	-0.03	1.00	0.12	-0.26	0.17	0.04	-0.12
	-0.20	0.05	0.21	-0.20	-0.14	0.27	0.10	0.25	-0.15			
ROW 8	0.20	0.29	0.07	0.06	-0.13	-0.06	0.12	1.00	0.08	0.48	-0.18	0.53

	-0.19	-0.44	0.03	-0.22	0.29	0.31	0.34	0.07	0.05			
ROW 9												
	0.16	-0.07	0.77	0.08	0.06	0.18	-0.26	0.08	1.00	-0.28	-0.34	0.47
	0.09	-0.39	-0.41	0.23	0.38	-0.38	-0.28	-0.40	-0.00			
ROW 10												
	0.05	0.30	-0.23	0.03	-0.11	-0.15	0.17	0.48	-0.28	1.00	-0.12	0.26
	-0.13	-0.31	0.35	-0.22	-0.05	0.66	0.67	0.33	0.17			
ROW 11												
	-0.13	-0.05	-0.35	-0.13	-0.04	-0.24	0.04	-0.18	-0.34	-0.12	1.00	-0.38
	0.14	0.52	0.25	-0.24	-0.26	0.15	0.06	0.20	-0.03			
ROW 12												
	0.11	-0.01	0.47	0.07	-0.10	0.08	-0.12	0.53	0.47	0.26	-0.38	1.00
	-0.08	-0.53	-0.28	-0.02	0.31	-0.03	0.14	-0.28	-0.02			
ROW 13												
	-0.01	0.04	0.11	0.12	0.01	0.11	-0.20	-0.19	0.09	-0.13	0.14	-0.06
	1.00	-0.12	-0.15	0.25	-0.03	-0.10	0.01	-0.17	-0.20			
ROW 14												
	-0.27	-0.11	-0.46	-0.22	0.09	-0.08	0.05	-0.44	-0.39	-0.31	0.52	-0.53
	-0.12	1.00	0.19	-0.08	-0.57	-0.06	-0.25	0.22	-0.03			
ROW 15												
	-0.02	0.17	-0.39	0.01	-0.09	-0.12	0.21	0.03	-0.41	0.35	0.25	-0.28
	-0.15	0.19	1.00	-0.15	-0.21	0.65	0.37	0.65	-0.05			
ROW 16												
	-0.07	-0.08	0.24	0.05	-0.06	0.05	-0.20	-0.22	0.23	-0.22	-0.24	-0.02
	0.25	-0.08	-0.15	1.00	-0.03	-0.24	-0.17	-0.17	0.07			
ROW 17												
	0.13	-0.24	0.42	0.46	0.02	-0.08	-0.14	0.29	0.38	-0.05	-0.26	0.31
	-0.03	-0.57	-0.21	-0.03	1.00	-0.01	0.19	-0.29	0.14			
ROW 18												
	0.02	0.23	-0.38	0.05	-0.08	-0.22	0.27	0.31	-0.38	0.66	0.15	-0.03
	-0.10	-0.06	0.65	-0.24	-0.01	1.00	0.69	0.68	0.19			
ROW 19												
	0.06	0.18	-0.18	0.07	-0.07	-0.21	0.10	0.34	-0.28	0.67	0.06	0.14
	0.01	-0.25	0.37	-0.17	0.19	0.69	1.00	0.12	0.16			
ROW 20												
	-0.03	0.19	-0.41	0.01	-0.07	-0.12	0.25	0.07	-0.40	0.33	0.20	-0.28
	-0.17	0.22	0.65	-0.17	-0.29	0.68	0.12	1.00	0.03			

ROW 21

-0.13	-0.15	0.02	-0.11	-0.18	-0.06	-0.15	0.05	-0.00	0.17	-0.03	-0.02
-0.20	-0.03	-0.05	0.07	0.14	0.19	0.16	0.03	1.00			

EIGENVALUES

4.52473	3.50581	1.73347	1.63899	1.33556	1.18113	0.97745	0.92396	0.91296	0.67216
0.62646	0.54013	0.49164	0.45673	0.28464	0.27087	0.24557	0.21386	0.20077	0.12879
0.07375									

CUMULATIVE PERCENTAGE OF EIGENVALUES

0.21694	0.38208	0.46543	0.54348	0.60945	0.66570	0.71224	0.75624	0.79972	0.83172
0.86156	0.88728	0.91069	0.93244	0.94599	0.95889	0.97058	0.98077	0.99033	0.99646
0.99997									

EIGENVECTORS

VECTOR 1

0.02671	-0.12673	0.35819	0.06636	0.02624	0.15885	-0.19393	-0.03306	0.35395	-0.23492
-0.20809	0.19735	0.09373	-0.18694	-0.34034	0.19511	0.19968	-0.34977	-0.21207	-0.33760
-0.02092									

VECTOR 2

0.17441	0.14616	0.13883	0.12938	-0.07594	-0.06282	0.09188	0.40182	0.11447	0.35714
-0.22114	0.34287	-0.07945	-0.40295	0.04770	-0.09899	0.27765	0.25299	0.31959	0.02380
0.07422									

VECTOR 3

-0.43084	-0.48913	0.02729	0.11367	-0.16870	-0.25587	-0.38394	-0.06285	-0.05081	0.02834
0.14493	-0.00010	-0.06540	0.04456	-0.00086	-0.10434	0.26299	0.09572	0.16214	-0.04143
0.41023									

VECTOR 4

-0.17740	0.00851	-0.00897	0.09195	-0.21463	0.54399	-0.13593	-0.08422	-0.04906	0.13932
-0.14218	-0.04810	0.20661	-0.07276	0.18545	0.60096	-0.12231	0.16360	0.10995	0.16596
0.15200									

VECTOR 5

0.11663	-0.06980	-0.03144	0.59322	0.20206	-0.07238	0.00576	-0.16217	-0.03469	-0.11302
0.14763	-0.20497	0.44469	-0.09375	0.12675	-0.00357	0.32405	0.09391	0.13007	0.02587
-0.35036									

VECTOR 6

0.03709	-0.26187	-0.07546	0.33101	0.06696	0.16489	0.30994	-0.04299	0.01066	-0.15417
-0.29934	-0.11039	-0.59213	0.04316	0.12852	0.04918	0.24278	0.00824	-0.25484	0.23164
0.10080									

VECTOR 7

-0.24699	-0.01515	-0.15381	-0.10315	0.31727	0.06498	-0.09019	-0.07790	-0.11152	0.18971

-0.29258	-0.01391	-0.06502	-0.01513	-0.12020	0.06092	-0.00857	0.03799	0.19591	-0.14317
0.02934									

VECTOR 8

-0.22884	0.03915	0.32426	-0.05383	0.19895	-0.08241	-0.33687	0.00819	0.35427	-0.04559
-0.00586	0.18473	-0.07773	0.06319	0.36976	-0.08158	-0.11952	0.14667	-0.19983	0.43742
-0.30845									

VECTOR 9

0.41926	0.18636	0.24334	-0.22154	0.20415	-0.13959	-0.04463	-0.24281	0.24962	-0.12516
0.08400	-0.32737	0.04772	-0.02806	0.11057	0.11236	0.14247	0.16022	0.07918	0.10355
0.52535									

VECTOR 10

-0.09437	0.28227	-0.04110	0.16506	-0.20577	-0.35179	-0.19691	-0.21933	-0.15031	0.11574
-0.58562	-0.24953	0.11541	-0.20015	-0.09513	-0.13368	-0.12956	-0.10737	-0.22623	0.14090
0.07148									

VECTOR 11

0.04949	-0.43408	0.15113	-0.36751	-0.14758	-0.12994	0.29643	-0.46462	0.00434	0.05509
-0.24628	0.04275	0.03588	-0.20411	0.22584	0.00749	-0.04518	0.06097	0.22643	-0.11376
-0.28152									

FACTOR MATRIX (11 FACTORS)

VARIABLE 1

0.05476	0.32656	-0.56725	-0.22711	0.13729	0.09465	-0.24419	-0.21997	0.40060	-0.07737
0.03917									

VARIABLE 2

-0.26987	0.27366	-0.64399	0.01090	-0.03216	-0.28460	-0.01498	0.03764	0.17806	0.23142
-0.54337									

VARIABLE 3

0.76276	0.25994	0.03593	-0.01148	-0.03701	-0.08201	-0.15207	0.31169	0.23251	-0.03870
0.11966									

VARIABLE 4

0.14131	0.24225	0.14966	0.11772	0.69828	0.35974	-0.10198	-0.05175	-0.21168	0.13532
-0.29038									

VARIABLE 5

0.05989	-0.14220	-0.22211	-0.27478	0.23783	0.07277	0.80800	0.19124	0.19506	-0.16870
-0.11680									

VARIABLE 6

0.33826	-0.11763	-0.33688	0.69643	-0.08520	0.17920	0.06424	-0.07922	-0.13338	-0.28842
-0.10285									

VARIABLE 7									
-0.41298	0.11586	-0.50550	-0.17402	0.00678	0.33684	-0.08916	-0.32380	-0.04265	-0.16144
0.23462									
VARIABLE 8									
-0.37040	0.75236	-0.08275	-0.10782	-0.19207	-0.04672	-0.07701	0.00787	-0.23201	-0.17982
-0.36774									
VARIABLE 9									
0.76438	0.21432	-0.06690	-0.06281	-0.04083	0.01159	-0.11026	0.34053	0.23851	-0.12323
0.00344									
VARIABLE 10									
-0.30027	0.66971	0.03731	0.17836	-0.13304	-0.16755	0.18756	-0.04382	-0.11959	0.09489
0.04361									
VARIABLE 11									
-0.44525	-0.41406	0.19082	-0.18203	0.17377	-0.31445	-0.28926	-0.00563	0.08026	-0.48258
-0.19493									
VARIABLE 12									
-0.47526	0.64199	-0.00013	-0.00158	-0.24127	-0.11996	-0.01375	0.17949	-0.31279	-0.20458
0.03583									
VARIABLE 13									
0.19960	-0.14875	-0.08610	0.26451	0.52344	-0.64353	-0.06428	-0.07471	0.04559	0.09462
0.32840									
VARIABLE 14									
-0.39309	-0.75447	0.05367	-0.09315	-0.11624	0.04690	-0.01496	0.06074	-0.02681	-0.16409
-0.16155									
VARIABLE 15									
-0.72475	0.08932	-0.00113	0.23742	0.14920	0.13968	-0.11684	0.35542	0.10564	-0.07799
0.17875									
VARIABLE 16									
0.41548	-0.18535	-0.13737	0.76937	-0.00421	0.05345	0.06023	-0.07841	0.10736	-0.10960
0.00593									
VARIABLE 17									
0.42521	0.51987	0.34626	-0.15658	0.38144	0.26386	-0.00847	-0.11489	0.13613	-0.10622
-0.03576									
VARIABLE 18									
-0.74484	0.47370	0.12602	0.20945	0.11055	0.00895	0.03756	0.14098	0.15309	-0.08803
0.04326									
VARIABLE 19									
-0.42160	0.59840	0.21347	0.14076	0.15311	-0.27696	0.19369	-0.19209	0.07566	-0.18548

0.17922

VARIABLE 20									
-0.71892	0.04471	-0.05454	0.21246	0.03045	0.25174	-0.14155	0.42046	0.09894	0.11552
-0.09004									
VARIABLE 21									
-0.04456	0.13898	0.54011	0.19460	-0.41300	0.10955	0.02901	-0.29649	0.50197	0.05860
-0.22282									

ITERATION CYCLE	VARIANCES
0	0.219792
1	0.490351
2	0.506465
3	0.530495
4	0.534637
5	0.535273
6	0.535465
7	0.535516
8	0.535771
9	0.535950
10	0.536173
11	0.536466
12	0.536849
13	0.537311
14	0.537785
15	0.538169
16	0.538403
17	0.538526
18	0.538574
19	0.538591
20	0.538596
21	0.538597
22	0.538596
23	0.538596
24	0.538596
25	0.538596

ROTATED FACTOR MATRIX (11 FACTORS)

VARIABLE 1									
0.02127	0.01104	-0.00692	-0.04824	0.07107	-0.05328	0.02007	0.22120	0.01213	0.02070
-0.27374									
VARIABLE 2									
-0.14264	0.13520	-0.27482	-0.01393	-0.15041	-0.11248	0.06017	-0.05075	-0.05497	0.08407
-0.83023									

1/11	2	3	4	5	6	7	8	9	10
VARIABLE 3									
0.10262	-0.11243	0.02701	0.07305	0.03232	-0.09537	-0.04295	0.86801	0.03262	0.15318
0.05334									
VARIABLE 4									
-0.06700	-0.00679	0.02893	0.05869	0.92725	-0.07254	-0.02616	-0.01206	-0.10593	0.08059
0.01656									
VARIABLE 5									
0.06030	-0.05397	-0.00750	-0.02327	-0.00189	0.00890	0.98043	-0.01195	-0.09753	0.01639
-0.02984									
VARIABLE 6									
0.07689	-0.07144	-0.01296	0.92750	0.01669	0.05720	-0.00950	0.04604	-0.08614	0.04460
-0.03772									
VARIABLE 7									
-0.12663	0.10662	-0.71132	-0.00615	-0.05844	0.25938	-0.01619	-0.35650	-0.21495	0.03529
0.00678									
VARIABLE 8									
0.07463	0.56455	-0.04473	-0.06758	0.20262	0.44820	-0.14303	0.22286	-0.05782	-0.06362
-0.49253									
VARIABLE 9									
0.14341	-0.19047	-0.02445	0.12233	0.06070	0.01637	0.06975	0.85765	0.00354	0.08143
-0.01692									
VARIABLE 10									
-0.05338	0.78698	0.03225	-0.10001	-0.04275	0.10175	-0.08049	-0.14990	0.04404	0.22435
-0.22450									
VARIABLE 11									
-0.13267	-0.05001	0.02043	-0.17678	-0.09547	-0.15116	-0.04066	-0.24466	-0.00230	-0.88278
0.05564									
VARIABLE 12									
0.27727	0.44004	0.10689	0.04228	0.02746	0.32679	-0.14197	0.58727	-0.23882	0.13129
-0.09797									
VARIABLE 13									
0.16215	0.04805	0.09769	0.13696	0.08767	-0.84871	-0.03339	0.05482	-0.17994	-0.13252
-0.10911									
VARIABLE 14									
-0.16098	-0.44520	0.16839	-0.02186	-0.27405	0.09034	0.10612	-0.49287	0.00549	-0.46434
0.06016									
VARIABLE 15									
-0.84142	0.21098	-0.06976	-0.03707	-0.04724	-0.00153	-0.03351	-0.19003	-0.07685	-0.11371

	0.06260								
VARIABLE 16									
	0.04366	-0.12636	0.07195	0.84744	-0.00531	-0.23973	-0.02483	0.12514	0.13242	0.12633
	0.07391								
VARIABLE 17									
	0.19117	0.21226	-0.13198	-0.12436	0.64936	0.05345	0.07425	0.44905	0.19937	0.07606
	0.25137								
VARIABLE 18									
	-0.67129	0.61431	-0.07436	-0.11720	0.05754	0.02880	0.00931	-0.16710	0.13325	-0.07132
	-0.06077								
VARIABLE 19									
	-0.18029	0.87139	-0.09476	-0.11116	0.04591	-0.15230	0.03581	-0.09385	0.13207	-0.05060
	0.07466								
VARIABLE 20									
	-0.96108	0.02148	0.02503	-0.05300	0.01012	0.14023	-0.04800	-0.23510	0.00754	-0.03501
	-0.18633								
VARIABLE 21									
	0.01541	0.13816	0.11601	0.02650	-0.04047	0.14175	-0.10867	0.00115	0.92605	0.00392
	0.05080								

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.78681	0.78675	0.00006
2	0.85526	0.85519	0.00007
3	0.84868	0.84861	0.00006
4	0.89273	0.89268	0.00005
5	0.97963	0.97958	0.00005
6	0.88808	0.88803	0.00005
7	0.77902	0.77896	0.00007
8	0.85693	0.85686	0.00007
9	0.84263	0.84257	0.00006
10	0.83872	0.83864	0.00008
11	0.92934	0.92927	0.00007
12	0.83840	0.83832	0.00008
13	0.84902	0.84895	0.00007
14	0.81318	0.81311	0.00008
15	0.82103	0.82097	0.00006
16	0.85401	0.85395	0.00006
17	0.85496	0.85489	0.00007
18	0.90603	0.90595	0.00008
19	0.87421	0.87413	0.00008
20	0.85934	0.85926	0.00007
21	0.92726	0.92720	0.00006

B

FACTOR ANALYSIS/RFAKT/LOKKEN
CU,ZN,NI,CO,PB,AG,S,MN,CR,FE,NA2O,MGO,AL2O3,SIO2,P,K2O,CAC,TI,V,ZR
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

11.07.85 Geometrisk

NO. OF CASES 1667
NO. OF VARIABLES 20

MEANS

1.59939	1.93723	1.87226	1.59501	1.21438	0.07649	2.58685	3.08062	2.12176	4.87229
4.56840	4.78415	5.18040	5.69566	2.71453	3.15694	4.87276	3.82445	2.46836	1.90775

STANDARD DEVIATIONS

0.38352	0.19322	0.30098	0.18261	0.26966	0.24198	0.58526	0.16637	0.47762	0.14052
0.19272	0.20251	0.05801	0.04357	0.23430	0.53584	0.24068	0.17982	0.21833	0.21150

CORRELATION COEFFICIENTS

ROW 1

1.00	0.44	0.18	0.25	0.04	0.44	0.39	0.36 (8)	0.15	0.31	-0.13	0.24 (12)
-0.05 (13)	-0.36	0.13	-0.15	0.18	0.21	0.24	-0.03 (20)				

ROW 2

0.44	1.00	0.03	0.23	0.06	0.50	0.32	0.45	-0.01	0.44	-0.03	0.21
0.01	-0.26	0.27	-0.14	-0.08	0.36	0.34	0.13				

ROW 3

0.13	0.03	1.00	0.39	0.03	0.24	-0.29	0.29	0.76	0.12	-0.32	0.63
0.15	-0.57	-0.24	0.12	0.52	-0.05	0.19	-0.44				

ROW 4

0.23	0.23	0.38	1.00	0.20	0.55	0.04	0.50	0.31	0.48	-0.15	0.61
0.12	-0.01	-0.02	-0.10	0.44	0.36	0.43	-0.21				

ROW 5

0.04	0.06	0.03	0.20	1.00	0.28	0.06	0.01	0.14	-0.06	-0.07	0.02
0.03	-0.06	-0.06	0.07	0.09	-0.07	-0.04	-0.08				

ROW 6

0.44	0.50	0.24	0.56	0.28	1.00	0.26	0.57	0.15	0.59	-0.13	0.46

0.22 -0.54 0.40 -0.14 0.30 0.50 0.47 -0.19

B

0.22	-0.54	0.40	-0.14	0.30	0.50	0.47	-0.19				
ROW 7											
0.39	0.32	-0.29	0.04	0.06	0.26	1.00	0.14	-0.28	0.25	-0.01	-0.12
-0.27	0.01	0.20	-0.22	-0.20	0.16	0.09	0.19				
ROW 8											
0.36	0.45	0.29	0.50	0.01	0.57	0.14	1.00	0.13	0.72	-0.17	0.68
-0.02	-0.64	0.20	-0.28	0.46	0.55	0.61	-0.08				
ROW 9											
0.15	-0.01	0.76	0.31	0.14	0.15	-0.28	0.13	1.00	-0.11	-0.32	0.47
0.09	-0.36	-0.35	0.15	0.40	-0.24	-0.10	-0.40				
ROW 10											
0.31	0.44	0.12	0.48	-0.06	0.59	0.25	0.72	-0.11	1.00	-0.12	0.58
-0.04	-0.62	0.41	-0.31	0.30	0.75	0.80	0.03				
ROW 11											
-0.13	-0.03	-0.32	-0.15	-0.07	-0.13	-0.01	-0.17	-0.32	-0.12	1.00	-0.29
0.27	0.37	0.30	-0.13	-0.25	0.17	0.02	0.32				
ROW 12											
0.24	0.21	0.63	0.61	0.02	0.46	-0.12	0.68	0.47	0.58	-0.29	1.00
0.15	-0.72	-0.05	-0.14	0.56	0.34	0.53	-0.39				
ROW 13											
-0.05	0.01	0.15	0.14	0.03	0.22	-0.27	-0.02	0.09	-0.04	0.27	0.15
1.00	-0.25	0.02	0.19	0.19	0.15	0.14	-0.08				
ROW 14											
-0.36	-0.26	-0.57	-0.61	-0.06	-0.54	0.01	-0.64	-0.36	-0.62	0.37	-0.72
-0.25	1.00	-0.02	0.09	-0.63	-0.42	-0.58	0.31				
ROW 15											
0.13	0.27	-0.24	-0.02	-0.06	0.40	0.20	0.20	-0.35	0.41	0.30	-0.05
0.02	-0.02	1.00	-0.15	-0.06	0.63	0.36	0.66				
ROW 16											
-0.15	-0.14	0.12	-0.10	0.07	-0.14	-0.22	-0.28	0.15	-0.31	-0.13	-0.14

0.19	0.09	-0.15	1.00	-0.13	-0.28	-0.23	-0.06

0.19	0.09	-0.15	1.00	-0.13	-0.28	-0.23	-0.06			
ROW 17										
0.13	-0.08	0.52	0.44	0.09	0.30	-0.20	0.46	0.40	0.30	-0.25	0.56
0.19	-0.68	-0.06	-0.13	1.00	0.26	0.42	-0.39				
ROW 18										
0.21	0.36	-0.05	0.36	-0.07	0.50	0.16	0.55	-0.24	0.75	0.17	0.34
0.15	-0.42	0.63	-0.28	0.26	1.00	0.79	0.39				
ROW 19										
0.24	0.34	0.19	0.43	-0.04	0.47	0.09	0.61	-0.10	0.80	0.02	0.53
0.14	-0.58	0.36	-0.23	0.42	0.79	1.00	-0.06				
ROW 20										
-0.03	0.13	-0.44	-0.21	-0.08	-0.19	0.19	-0.08	-0.40	0.03	0.32	-0.39
-0.03	0.31	0.66	-0.06	-0.39	0.39	-0.06	1.00				

EIGENVALUES

6.24322	3.74950	1.74873	1.30135	1.02024	0.92994	0.85489	0.70870	0.56091	0.49305
0.47443	0.40819	0.36307	0.31662	0.21998	0.17999	0.16760	0.10249	0.09066	0.00099

CUMULATIVE PERCENTAGE OF EIGENVALUES

0.31241	0.49989	0.58732	0.65539	0.70640	0.75290	0.79564	0.83108	0.85912	0.88378
0.90750	0.92791	0.94606	0.96189	0.97289	0.98189	0.99027	0.99540	0.99993	0.99998

EIGENVECTORS

VECTOR 1

-0.12703	0.18642	0.20010	0.28340	0.03613	0.30107	0.04633	0.32993	0.11761	0.32448
-0.34332	0.32544	0.06374	-0.34278	0.09303	-0.09859	0.25089	0.25855	0.30721	-0.08824

VECTOR 2

-0.09090	-0.18532	0.34288	0.08110	0.06489	-0.08223	-0.25005	-0.06303	0.37901	-0.19630
-0.22988	0.16744	0.06477	-0.12784	-0.38498	0.16700	0.20471	-0.31028	-0.15564	-0.37109

VECTOR 3

-0.37641	-0.26567	0.05026	-0.00015	-0.16670	-0.11485	-0.47534	-0.05443	-0.05493	0.00314

0.34673	0.06889	0.45692	-0.04761	0.17035	0.10009	0.17329	0.23931	0.19700	0.10544

VECTOR 4

0.34673	0.06889	0.45692	-0.04761	0.17035	0.10009	0.17329	0.23931	0.19700	0.10544

VECTOR 4

0.16012	0.24735	0.03174	0.12379	0.49291	0.34511	0.04663	-0.14359	0.13554	-0.18011
0.13297	-0.11967	0.44695	0.01998	0.13912	0.38236	-0.13253	-0.03462	-0.13943	0.08644

VECTOR 5

0.24001	0.26002	0.28005	-0.20522	-0.57404	-0.09810	-0.08765	0.01567	0.24294	-0.01665
-0.15730	0.03605	-0.01132	-0.03953	0.20813	0.39967	-0.17165	0.01687	-0.06976	0.28712

VECTOR 6

-0.34028	-0.19639	-0.01410	0.05735	0.38171	-0.00693	-0.12852	0.01783	-0.00938	0.11499
-0.47059	-0.01990	-0.36751	-0.03374	0.24463	0.38275	0.03586	0.13020	0.02522	0.28759

VECTOR 7

-0.10651	0.10356	-0.25377	-0.02251	-0.19684	0.05717	0.11737	-0.01722	-0.42135	0.18119
-0.24015	-0.02171	0.23720	-0.10377	-0.26606	0.47247	-0.17588	-0.02405	0.21196	-0.37330

VECTOR 8

0.41472	-0.48181	-0.04796	-0.18388	-0.06578	0.01862	0.29434	-0.18703	-0.11383	-0.09611
-0.17805	-0.22255	0.17133	-0.20712	0.16014	0.07854	0.47211	0.05398	-0.00082	0.03384

VECTOR 9

0.02322	0.31220	-0.05504	-0.06923	0.13799	0.14676	-0.40323	0.08819	-0.07600	-0.02433
-0.26309	-0.09099	0.09767	-0.00271	0.14155	-0.23489	0.14542	-0.05370	0.04584	-0.17031

FACTOR MATRIX (9 FACTORS)

VARIABLE 1

0.46084	-0.12160	-0.49776	0.19382	0.24243	-0.32872	-0.12622	0.34913	0.01739	

VARIABLE 2

0.46597	-0.36078	-0.35131	0.28861	0.26264	-0.18938	0.09575	-0.40561	0.23382	> 0,5

VARIABLE 3

0.50019	0.66393	0.06649	0.03704	0.28287	-0.01360	-0.23463	-0.04037	-0.04122	

VARIABLE 4

0.70340	0.15703	-0.00020	0.14443	-0.20729	0.05530	-0.02082	-0.15480	-0.50121	

VARIABLE 5

VARIABLE 5								
0.09030	0.12565	-0.22044	0.57512	-0.57982	0.36809	-0.18200	-0.05538	0.14079
VARIABLE 6								
0.75256	-0.15923	-0.15188	0.40267	-0.09909	-0.00668	0.05286	0.01567	0.10992
VARIABLE 7								
0.11532	-0.48419	-0.62858	0.05441	-0.08853	-0.12393	0.10852	0.24779	-0.30199
VARIABLE 8								
0.82470	-0.12205	-0.07198	-0.16753	0.01582	0.01719	-0.01592	-0.15745	0.06605
VARIABLE 9								
0.29398	0.73390	-0.07264	0.15814	0.24539	-0.00905	-0.38958	-0.09583	-0.05692
VARIABLE 10								
0.81109	-0.38012	0.00416	-0.21014	-0.01682	0.11089	0.16753	-0.08091	-0.01822
VARIABLE 11								
-0.24627	-0.44470	0.45852	0.21348	-0.15888	-0.45381	-0.22953	-0.14737	-0.19704
VARIABLE 12								
0.81348	0.32422	0.09110	-0.13963	0.03641	-0.01533	-0.02007	-0.18735	-0.06815
VARIABLE 13								
0.15932	0.12542	0.60423	0.52149	-0.01143	-0.35440	0.21932	0.14423	0.07315
VARIABLE 14								
-0.35634	-0.24755	-0.06296	0.02331	-0.03993	-0.03254	-0.09595	-0.17436	-0.00652
VARIABLE 15								
0.23254	-0.74545	0.22527	0.16232	0.21022	0.23590	-0.24656	0.13481	0.10601
VARIABLE 16								
-0.24644	0.32238	0.13236	0.44613	0.40370	0.36910	0.43685	0.06645	-0.17592
VARIABLE 17								
0.62714	0.39639	0.22916	-0.15463	-0.17337	0.03458	-0.16262	0.39744	0.10891
VARIABLE 18								

0,5

Var 18

0.04620	-0.60092	0.31647	-0.04039	0.01704	0.12556	-0.02223	0.04544	-0.04022
VARIABLE 19								
0.76791	-0.30138	0.26051	-0.16268	-0.07046	0.02432	0.19598	-0.00069	0.03433
VARIABLE 20								
-0.22056	-0.71856	0.13944	0.10085	0.29001	0.27733	-0.34515	0.02849	-0.12755

ITERATION CYCLE	VARIANCES
0	0.196395
1	0.386137
2	0.449048
3	0.463022
4	0.466335
5	0.467175
6	0.467381
7	0.467431
8	0.467381
9	0.467360
10	0.467380
11	0.467380

ROTATED FACTOR MATRIX (9 FACTORS)

> 0.5

VARIABLE 1								
0.19274	0.23454	0.02369	0.82513	0.01009	-0.08872	-0.04367	-0.17253	0.11140
VARIABLE 2								
0.34327	0.01763	0.01488	0.30010	-0.06481	-0.03372	-0.10442	-0.81302	0.03914
VARIABLE 3								
0.21944	0.35876	0.03169	-0.00736	0.03004	0.09783	0.19352	0.02572	-0.00917
VARIABLE 4								
0.57982	0.32881	0.04171	0.12761	-0.23368	0.04531	0.11735	0.03516	-0.57876
VARIABLE 5								

-0.03307	0.03969	-0.00610	0.00853	-0.66113				

VARIABLE 5

-0.03307	0.03969	-0.00610	0.00853	-0.96112	0.01610	0.03638	-0.01228	-0.04869

VARIABLE 6

0.60391	0.13855	0.18496	0.37247	-0.40276	0.02606	-0.04695	-0.27155	0.01083

VARIABLE 7

0.07978	-0.39044	-0.23882	0.74067	-0.05296	-0.05010	-0.06469	-0.07704	-0.23153

VARIABLE 8

0.77564	0.22289	-0.12358	0.12429	-0.01602	-0.17714	-0.00837	-0.21034	-0.01565

VARIABLE 9

-0.06319	0.90689	-0.02590	0.01302	-0.10261	0.05975	0.18424	-0.02097	-0.06349

VARIABLE 10

0.90154	-0.06469	-0.11999	0.12993	0.03947	-0.07703	-0.12266	-0.14253	-0.05424

VARIABLE 11

-0.19357	-0.26493	0.58499	-0.12068	0.10449	-0.37138	-0.34859	-0.06613	-0.34276

VARIABLE 12

0.53905	0.53562	-0.00912	-0.03699	0.01823	-0.05517	0.22115	-0.06533	-0.12909

VARIABLE 13

0.12248	0.09259	0.89808	-0.06160	-0.04175	0.18967	0.05676	0.02462	0.05174

VARIABLE 14

-0.74453	-0.43098	-0.08221	-0.19912	0.05272	-0.09258	-0.17125	-0.10304	-0.06695

VARIABLE 15

0.31653	-0.18040	0.09297	0.10053	-0.04544	-0.03836	-0.83487	-0.08409	0.12339

VARIABLE 16

-0.22293	0.09282	0.12310	-0.11072	-0.01344	0.90506	0.02083	-0.00041	-0.01504

VARIABLE 17

0.52057	0.47826	0.12374	0.06107	-0.12112	-0.13651	0.16864	0.47929	0.21004

VARIABLE 18

0.77082	-0.13370	0.13887	0.05238	0.02668	-0.10012	-0.50296	-0.01674	-0.05097

VARIABLE 19								
0.88419	-0.05387	0.12797	0.01216	0.06168	-0.07897	-0.09109	-0.01899	0.00799
VARIABLE 20								
-0.12148	-0.24585	-0.08275	0.00861	0.07627	0.00396	-0.89140	-0.05602	-0.07817

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.82563	0.82561	0.00002
2	0.88722	0.88720	0.00002
3	0.83537	0.83535	0.00002
4	0.86898	0.86896	0.00002
5	0.93100	0.93098	0.00001
6	0.80189	0.80187	0.00002
7	0.83350	0.83348	0.00002
8	0.75822	0.75821	0.00002
9	0.87981	0.87979	0.00002
10	0.89406	0.89404	0.00002
11	0.85863	0.85861	0.00002
12	0.83637	0.83635	0.00002
13	0.87814	0.87813	0.00002
14	0.84227	0.84225	0.00002
15	0.87691	0.87689	0.00002
16	0.90726	0.90724	0.00002
17	0.85437	0.85435	0.00002
18	0.90067	0.90065	0.00002
19	0.81999	0.81998	0.00001
20	0.89182	0.89180	0.00002

Arithmetic table

FACTOR ANALYSIS/FFART/LOKKEN 11.07.85
CU,ZN,NI,CO,PB,AG,S,MN,CR,FE,NA2O,MGO,AL2O3,SIO2,P,K2O,CAO,TI,V,ZR
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
NO. OF CASES 1667
NO. OF VARIABLES 20

MEANS

83.19078 99.32213 91.00719 42.20361 18.98560 1.36327 1464.23511 1279.56519 202.85023 77714.93750
39623.39766 65598.31250152607.43750498833.68750 592.50000 3259.68579 82783.56250 7160.39063 317.66895 91.32849

STANDARD DEVIATIONS

1264.32007 116.75255 60.10390 15.01746 11.51549 0.87027 9310.51563 426.98804 171.38666 20025.16797
13009.39078 20669.64844 16586.35547 54791.33984 363.99829 5285.46094 30485.07422 2398.46045 105.34663 59.04724

CORRELATION COEFFICIENTS

ROW 1
1.00 0.09 0.07 0.11 0.00 0.20 0.33 0.19 0.00 0.25 -0.08 -0.01
-0.02 -0.13 0.02 0.00 -0.03 -0.01 -0.04 0.11

ROW 2
0.09 1.00 0.00 0.10 0.09 0.31 0.35 0.39 -0.04 0.30 -0.05 0.00
-0.02 -0.12 0.06 -0.02 -0.15 0.10 0.06 0.09

ROW 3
0.07 0.00 1.00 0.29 0.05 0.08 -0.08 0.08 0.80 -0.08 -0.38 0.59
0.05 -0.42 -0.25 0.07 0.32 -0.25 -0.14 -0.31

ROW 4
0.11 0.10 0.29 1.00 0.30 0.30 0.08 0.30 0.27 0.30 -0.23 0.47
0.00 -0.50 -0.15 -0.03 0.24 0.19 0.22 -0.22

ROW 5
0.00 0.09 0.05 0.30 1.00 0.11 0.06 0.02 0.11 -0.06 -0.09 0.03
0.03 -0.06 0.01 0.05 0.12 -0.06 -0.05 -0.02

ROW 6
0.30 0.31 0.08 0.30 0.11 1.00 0.28 0.39 0.02 0.38 -0.09 0.17

0.10 -0.31 0.27 -0.03 0.02 0.29 0.26 -0.09

	0.10	-0.31	0.27	-0.03	0.02	0.29	0.26	-0.09				
ROW 7	0.33	0.35	-0.08	0.08	0.06	-0.28	1.00	0.10	-0.10	0.39	-0.11	-0.13
	-0.23	-0.05	0.05	-0.03	-0.13	-0.03	-0.04	0.04				
ROW 8	0.19	0.39	0.08	0.30	0.02	0.39	0.10	1.00	0.02	0.55	-0.23	0.39
	-0.18	-0.47	0.01	-0.24	0.12	0.38	0.35	-0.10				
ROW 9	0.00	-0.04	0.30	0.27	0.11	-0.02	-0.10	0.02	1.00	-0.21	-0.41	0.59
	0.06	-0.31	-0.30	0.09	0.35	-0.36	-0.27	-0.32				
ROW 10	0.25	-0.30	-0.08	0.30	-0.06	0.38	0.39	0.55	-0.21	1.00	-0.17	0.22
	-0.21	-0.51	0.17	-0.26	-0.09	0.63	0.66	-0.04				
ROW 11	-0.03	-0.05	-0.33	-0.23	-0.09	-0.09	-0.11	-0.23	-0.41	-0.17	1.00	-0.50
	0.14	0.44	0.30	-0.20	-0.52	0.12	0.01	0.29				
ROW 12	-0.01	0.00	0.59	0.47	0.03	0.17	-0.13	0.39	0.59	0.22	-0.50	1.00
	0.02	-0.42	-0.28	-0.14	0.31	-0.01	0.11	-0.40				
ROW 13	-0.02	-0.02	0.05	0.05	0.03	0.10	-0.25	-0.16	0.06	-0.21	0.14	0.02
	1.00	-0.25	0.01	0.22	0.10	-0.06	-0.02	-0.07				
ROW 14	-0.13	-0.12	-0.42	-0.50	-0.06	-0.31	-0.05	-0.47	-0.31	-0.51	0.44	-0.62
	-0.25	1.00	0.08	0.16	-0.60	-0.32	-0.44	0.35				
ROW 15	0.02	0.06	-0.25	-0.15	0.01	0.27	0.05	0.01	-0.30	0.17	0.30	-0.28
	0.01	0.03	1.00	-0.02	-0.24	0.37	0.11	0.53				
ROW 16	0.00	-0.02	0.07	-0.06	0.05	-0.03	-0.03	-0.24	0.09	-0.26	-0.20	-0.14
	0.22	0.16	-0.02	1.00	-0.15	-0.24	-0.20	0.04				

0.22	0.16	-0.02	1.00	-0.16	-0.24	-0.20	0.04			
ROW 17										
-0.03	-0.15	0.32	0.24	0.12	0.02	-0.13	0.12	0.35	-0.08	-0.52	0.31
0.10	-0.60	-0.24	-0.16	1.00	-0.03	0.06	-0.31				
ROW 18										
-0.01	0.10	-0.25	0.19	-0.06	0.29	-0.03	0.38	-0.36	0.63	0.12	-0.01
-0.06	-0.32	0.37	-0.24	-0.03	1.00	0.77	0.21				
ROW 19										
-0.04	0.06	-0.14	0.22	-0.05	0.26	-0.04	0.35	-0.27	0.66	0.01	0.11
-0.02	-0.44	0.11	-0.20	0.06	0.77	1.00	-0.15				
ROW 20										
0.11	0.09	-0.31	-0.22	-0.02	-0.09	0.04	-0.10	-0.32	-0.04	0.29	-0.40
-0.07	0.35	0.53	0.04	-0.31	0.21	-0.15	1.00				

EIGENVALUES

4.44255	3.66214	2.07656	1.43773	1.12322	1.09945	1.00765	0.95529	0.81573	0.69238
0.56821	0.49297	0.37190	0.32115	0.25800	0.18214	0.17816	0.14492	0.12956	0.04574

CUMULATIVE PERCENTAGE OF EIGENVALUES

0.22213	0.40522	0.50906	0.58095	0.63711	0.69208	0.74246	0.79023	0.83102	0.86563
0.89374	0.91839	0.93699	0.95305	0.96595	0.97505	0.98396	0.99121	0.99768	0.99997

EIGENVECTORS

VECTOR 1

0.09646	0.11043	0.26834	0.30409	0.06710	0.20089	0.05247	0.28439	0.23649	0.24528
-0.23966	0.36767	0.00930	-0.41108	-0.11956	-0.08444	0.25220	0.11151	0.18456	-0.22786

VECTOR 2

0.13691	0.20458	-0.27977	0.01947	-0.03753	0.21001	0.16632	0.21968	-0.34186	0.37445
0.16058	-0.14567	-0.03887	-0.04141	0.27297	-0.14515	-0.17763	0.39955	0.31968	0.19140

VECTOR 3

-0.49510	-0.48350	-0.09554	-0.00516	-0.11411	-0.14275	-0.40936	-0.03904	-0.10711	0.01092

0.09998	0.06552	0.09681	-0.12739	0.01025	-0.17164	0.15913	0.28547	0.33120	-0.10886

0.09998	0.06552	0.09681	-0.12739	0.01025	-0.17164	0.15913	0.28547	0.33120	-0.10889
VECTOR 4									
0.03543	0.05427	0.03305	0.15934	0.27190	0.29267	-0.21771	-0.10753	0.07281	-0.15786
0.14921	-0.03612	0.62328	-0.14524	0.35871	0.33011	0.01011	0.08680	-0.00755	0.19037
VECTOR 5									
0.27749	0.22255	0.01532	-0.26831	-0.66602	-0.07398	-0.16689	0.03187	-0.06649	0.02598
0.07472	0.00793	0.40086	-0.12264	-0.22148	0.13243	-0.06466	-0.01557	0.11862	-0.20154
VECTOR 6									
-0.01407	-0.00063	-0.36331	0.12110	0.33294	0.01059	0.21966	-0.14125	-0.32586	0.03057
-0.13418	-0.26172	0.19559	-0.03768	-0.39338	0.26073	0.13908	-0.06432	0.16564	-0.40785
VECTOR 7									
-0.19396	-0.21441	0.04777	-0.13458	-0.24484	0.09211	0.17207	-0.06013	0.01674	0.16174
-0.48668	-0.01042	-0.17393	-0.01649	0.21157	0.64200	-0.03057	0.08258	0.07185	0.12084
VECTOR 8									
0.25264	0.06837	-0.13514	-0.22216	0.03453	-0.26667	-0.05729	-0.02708	-0.11579	-0.09415
-0.29505	-0.18631	0.02805	-0.21302	0.14291	-0.16400	0.65952	0.04984	-0.08292	0.32236
VECTOR 9									
0.12304	0.23316	-0.04646	0.14148	0.24100	-0.41450	-0.50925	0.24981	-0.03782	-0.01452
-0.13560	0.11446	-0.13439	0.13443	-0.22662	0.32808	-0.20044	0.15758	0.12566	0.20456
VECTOR 10									
0.22522	-0.13133	0.20358	0.26344	-0.08312	-0.44682	0.25719	-0.54427	0.11340	0.20270
0.14227	-0.04330	0.03340	-0.13894	-0.04869	0.02512	-0.09074	0.13824	0.17281	0.18123

FACTOR MATRIX (10 FACTORS)

VARIABLE 1									
0.20331	0.26201	-0.71346	0.04254	0.29409	-0.01475	-0.19470	0.24692	0.11113	0.18740
VARIABLE 2									
0.23287	0.39150	-0.69674	0.06508	0.23586	-0.00066	-0.21522	0.06682	0.21058	-0.10928
VARIABLE 3									

0.56601	-0.53539	-0.13768	0.09959	0.01624	-0.38095	0.04795	-0.13209	-0.04198	0.16940
VARIABLE 4 0.64094	0.03725	-0.00743	0.19105	-0.30556	0.12698	-0.18529	-0.21714	0.12778	0.30241
VARIABLE 5 0.14143	-0.07181	-0.16443	0.32602	-0.70586	0.35016	-0.24578	0.03375	0.21767	-0.06917
VARIABLE 6 0.42343	0.40188	-0.20570	0.35092	-0.07841	0.01110	0.09246	-0.26064	-0.37437	-0.37180
VARIABLE 7 0.11060	0.31328	-0.58990	-0.26105	-0.17687	0.23033	0.17273	-0.05599	-0.45994	0.21400
VARIABLE 8 0.59942	0.42039	-0.05626	-0.12894	0.03377	-0.14810	-0.06036	-0.02647	0.22563	-0.45288
VARIABLE 9 0.49845	-0.05421	-0.15434	0.08730	-0.07046	-0.34168	0.01680	-0.11317	-0.03416	0.09436
VARIABLE 10 0.51700	0.71657	0.01574	-0.18929	0.02754	0.03206	0.16236	-0.09202	-0.01311	0.16867
VARIABLE 11 -0.00209	0.30730	0.14408	0.17891	0.07919	-0.14069	-0.48854	-0.29131	-0.12247	0.11838
VARIABLE 12 0.77496	-0.27877	0.09441	-0.04331	0.00846	-0.27442	-0.01046	-0.18210	0.10338	-0.03603
VARIABLE 13 0.01961	-0.17008	0.13951	0.74735	0.42484	0.20509	-0.17460	0.02742	-0.13944	0.02780
VARIABLE 14 -0.06645	-0.07925	-0.18357	-0.17415	-0.12997	-0.03951	-0.01655	-0.20820	0.12142	-0.11561
VARIABLE 15 -0.25200	0.52238	0.01477	0.43011	-0.23472	-0.41248	0.21237	0.13968	-0.20468	-0.04051
VARIABLE 16 -0.17796	-0.27777	-0.24734	0.39582	0.14035	0.27339	0.64445	-0.16030	0.29631	0.02090

VARIABLE 17

VARIABLE 17 0.53158	-0.33992	0.22932	0.01213	-0.06853	0.14583	-0.03069	0.64460	-0.18103	-0.07550
VARIABLE 18 0.23503	0.76460	0.41138	0.10407	-0.01650	-0.06744	0.08290	0.04871	0.14233	0.11502
VARIABLE 19 0.38099	0.61176	0.47727	-0.00905	0.12571	0.17368	0.07213	-0.08104	0.11349	0.14379
VARIABLE 20 -0.48527	0.30628	-0.15692	0.22826	-0.21360	-0.42765	0.12130	0.31507	0.18476	0.15080

ITERATION CYCLE	VARIANCES
0	0.193542
1	0.475727
2	0.543120
3	0.547216
4	0.547339
5	0.547341
6	0.547341
7	0.547340
8	0.547340
9	0.547340

ROTATED FACTOR MATRIX (10 FACTORS)

VARIABLE 1 0.04943	0.01634	-0.89096	0.06427	0.01625	-0.06625	-0.00760	0.04308	-0.20834	0.05765
VARIABLE 2 -0.02539	0.06785	-0.88703	-0.03819	-0.06599	-0.01156	0.01504	-0.07847	-0.04724	-0.23075
VARIABLE 3 0.39670	-0.12799	-0.02853	0.04898	0.01623	0.07922	0.04200	0.13009	-0.01565	-0.00336
VARIABLE 4 0.46895	0.40418	-0.08290	0.08407	-0.55408	0.15729	-0.05063	0.00953	-0.12498	-0.01537

VARIABLE 5									
-0.02095	-0.10626	-0.01652	-0.01453	-0.92839	-0.03035	0.03583	0.09710	0.00560	-0.08509
VARIABLE 6									
0.10824	0.23299	-0.12354	0.15544	-0.11535	-0.09549	0.01229	-0.00842	-0.24309	-0.82475
VARIABLE 7									
-0.09079	0.02578	-0.28052	-0.20874	-0.03847	0.01034	0.00436	-0.00278	-0.86360	-0.16032
VARIABLE 8									
0.13994	0.43234	-0.35082	-0.32484	-0.02816	0.09460	-0.13249	0.14195	0.27191	-0.52774
VARIABLE 9									
0.35656	-0.27630	0.02437	0.01536	-0.05937	0.10973	0.04257	0.15559	0.01681	-0.00219
VARIABLE 10									
0.03103	0.80843	-0.23118	-0.21499	0.04763	-0.00794	-0.06146	0.01898	-0.28410	-0.20168
VARIABLE 11									
-0.35135	-0.04782	0.06872	0.32284	0.03252	-0.20546	-0.39842	-0.66330	0.07110	0.07907
VARIABLE 12									
0.76939	0.21337	-0.00541	-0.10349	-0.03527	0.25189	-0.05733	0.18010	0.17283	-0.17655
VARIABLE 13									
0.02506	-0.03560	-0.02956	0.90597	-0.01258	0.03023	0.13351	0.05637	0.17202	-0.07791
VARIABLE 14									
-0.45397	-0.53960	0.11817	-0.24667	0.04786	-0.12820	0.09071	-0.53209	0.05030	0.16289
VARIABLE 15									
-0.15811	0.14342	0.06569	0.08543	0.02844	-0.84109	-0.02968	-0.10061	-0.07260	-0.27067
VARIABLE 16									
0.00491	-0.17143	0.00647	0.15083	-0.02019	-0.01769	0.94473	-0.06524	0.00167	0.02609
VARIABLE 17									
0.20703	0.00199	0.08507	0.12762	-0.10135	0.12483	-0.17257	0.89759	0.04950	0.03965
VARIABLE 18									
-0.16548	0.85111	0.01020	-0.00923	-0.01178	-0.28976	-0.10667	-0.00632	0.10490	-0.09480

-0.16540	0.89111	0.01020	-0.00923	-0.01178	-0.28976	-0.10667	-0.00632	0.10490	-0.09480
VARIABLE 19									
-0.11158	0.89011	0.06349	0.05622	0.01525	0.08424	-0.05102	0.03376	0.04988	-0.07019
VARIABLE 20									
-0.22675	-0.04133	-0.15925	-0.11625	-0.00886	-0.82628	0.03650	-0.14877	0.07362	0.19287

CHECK ON COMMUNALITIES

VARIABLE	ORIGINAL	FINAL	DIFFERENCE
1	0.85387	0.85385	0.00002
2	0.85989	0.85987	0.00002
3	0.83146	0.83145	0.00001
4	0.74750	0.74748	0.00002
5	0.89304	0.89303	0.00001
6	0.86740	0.86738	0.00002
7	0.90431	0.90429	0.00002
8	0.83925	0.83923	0.00002
9	0.85275	0.85274	0.00001
10	0.88206	0.88204	0.00002
11	0.88833	0.88831	0.00002
12	0.80970	0.80968	0.00002
13	0.88130	0.88129	0.00001
14	0.91122	0.91120	0.00002
15	0.85497	0.85496	0.00002
16	0.95038	0.95037	0.00002
17	0.93174	0.93173	0.00002
18	0.86746	0.86745	0.00002
19	0.84474	0.84472	0.00001
20	0.84092	0.84090	0.00002

ANFC FAKTORIPISTEMAARAT

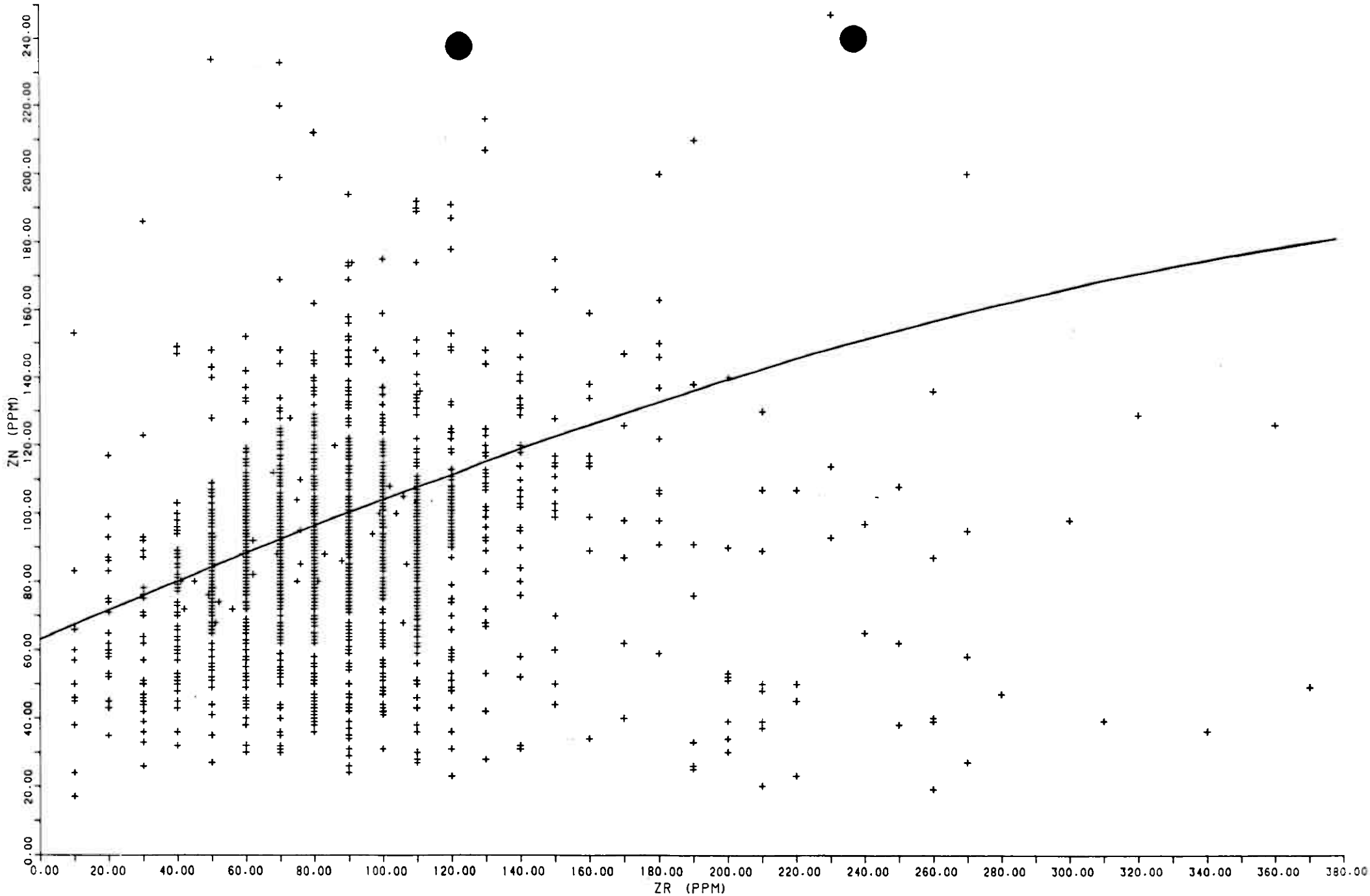
8437698 0.01464 -0.71319 -1.49333 -0.77381 0.72168

C

POLYNOMIAL REGRESSION LOKKEN 8.11.1985

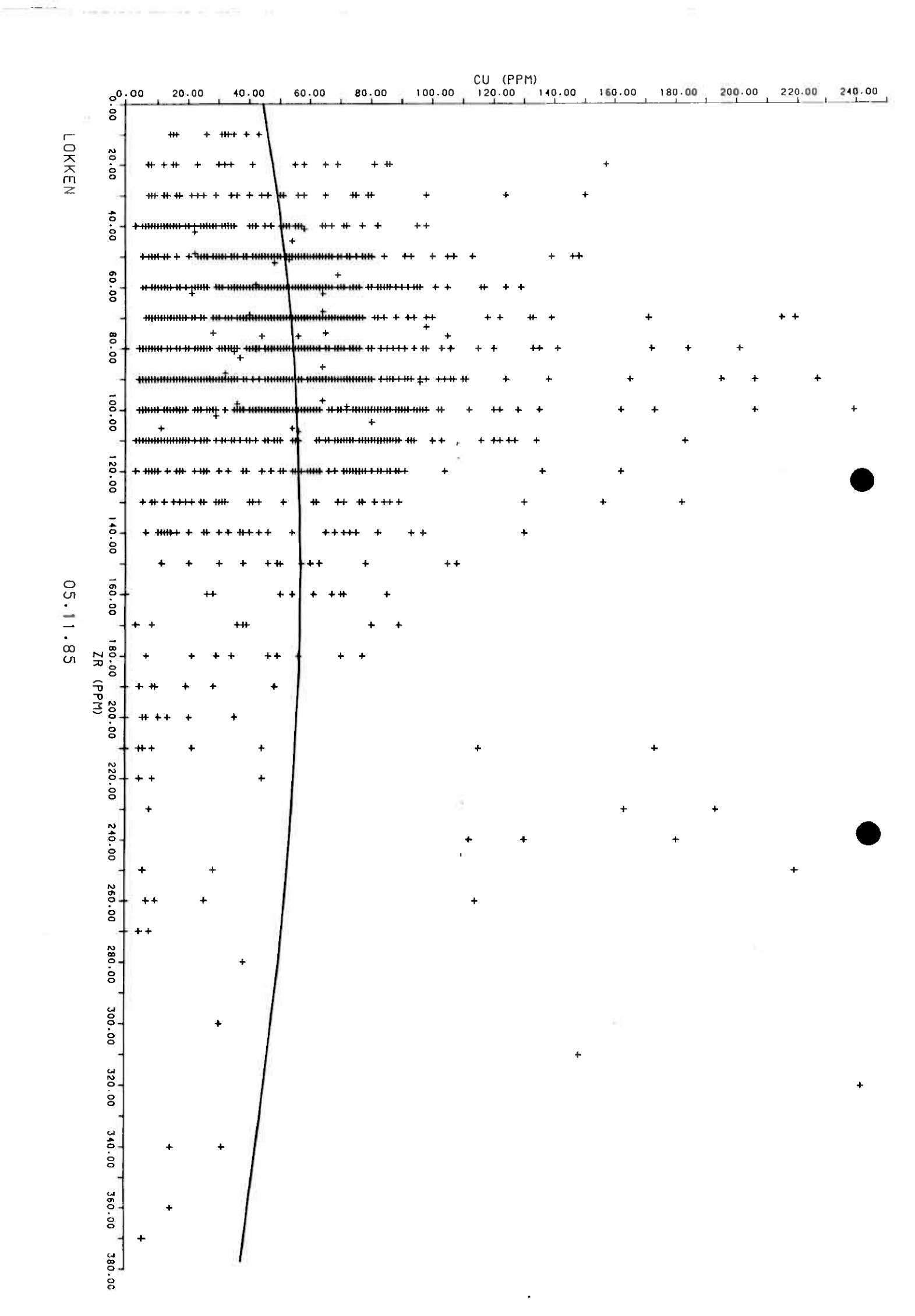
INDEPENDENT VARIABLE: ZR

DEPENDENT VARIABLE	INTERCEPT	REGRESSIONT COEFFICIENTS 1. DEGREE	2. DEGREE	3. DEGREE
ZN	63.1565	43.2085E-2	-1.91364E-4	-3.43639E-7
CU	44.3285	13.0208E-4	-7.23634E-4	52.12159E-8
SIO2	45.8876E+4	40.7930E+1	39.09570E-2	-7.61850E-4
CAO	12.2373E+4	-5.6494E+2	11.68000E-1	-6.49455E-4
FE2O3	86.2067E+3	46.1409E+1	-1.81641	13.84507E-4
MNO	14.3751E+2	46.1926E-1	-2.13784E-2	16.54265E-6
MGO	87.5650E+3	-2.7569E+2	33.10428E-2	-1.28810E-4
NA2O	25.7568E+3	19.6367E+1	-4.22881E-1	27.04430E-5



LOKKEN

05.11.85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05.11.85
CU (PPM)
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20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
200.00
220.00
240.00
ZR (PPM)
0.00
20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
200.00
220.00
240.00
260.00
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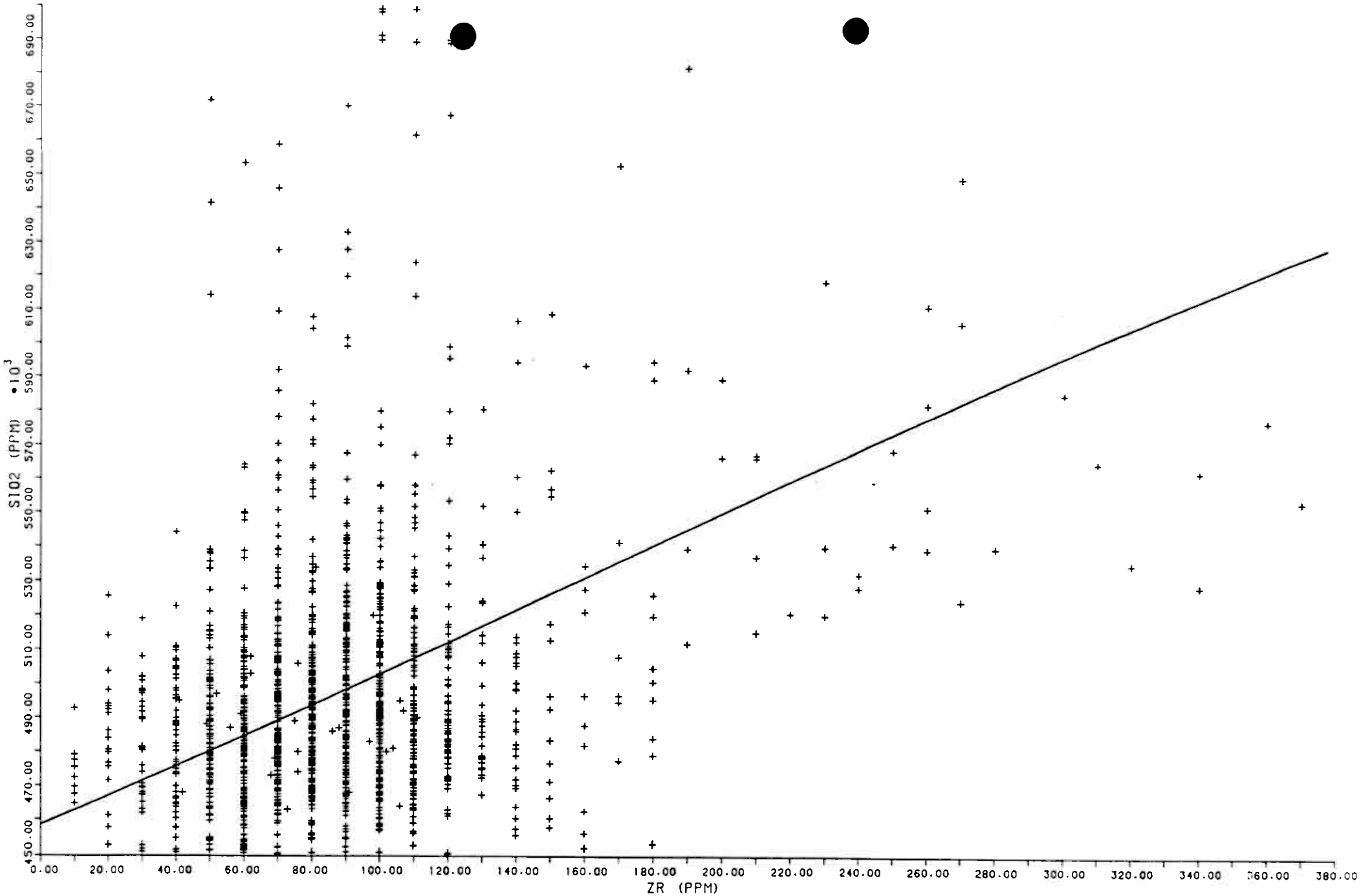
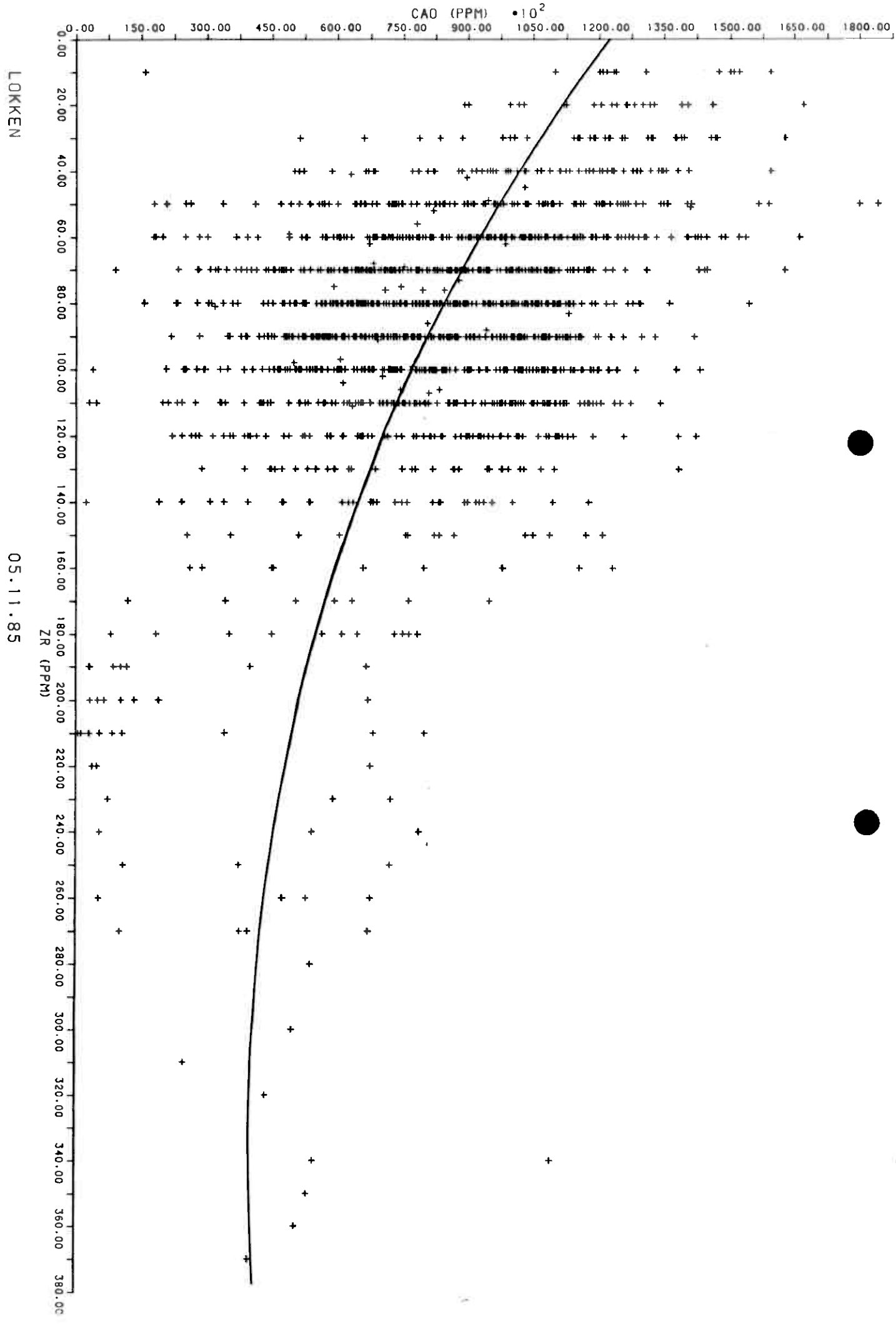
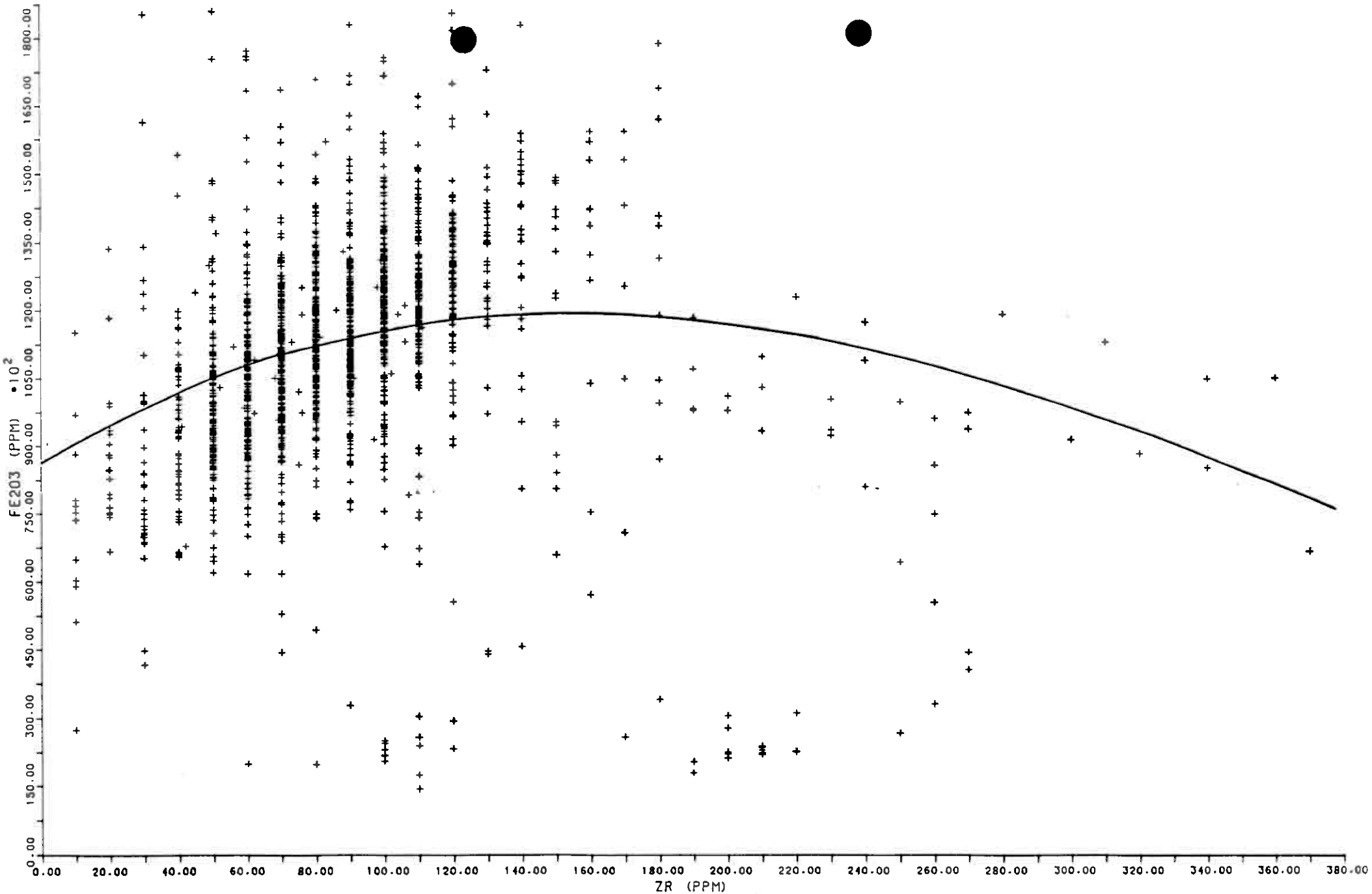
380.00



LOKKEN

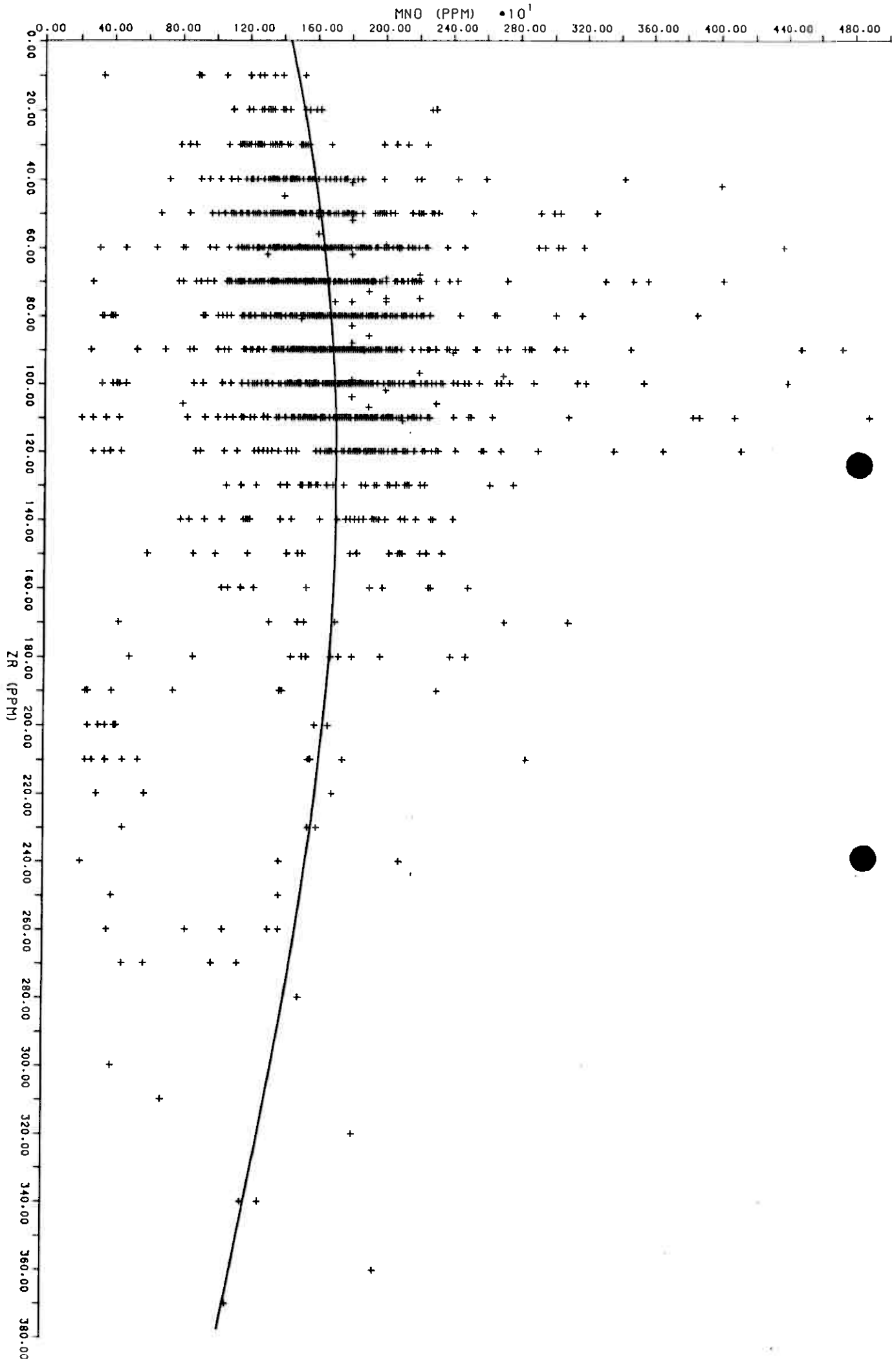
06.11.85


LOKKEN
05.11.85
CAO (PPM) •10²
0.00
150.00
300.00
450.00
600.00
750.00
900.00
1050.00
1200.00
1350.00
1500.00
1650.00
1800.00
ZR (PPM)
0.00
20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
200.00
220.00
240.00
260.00
280.00
300.00
320.00
340.00
360.00
380.00



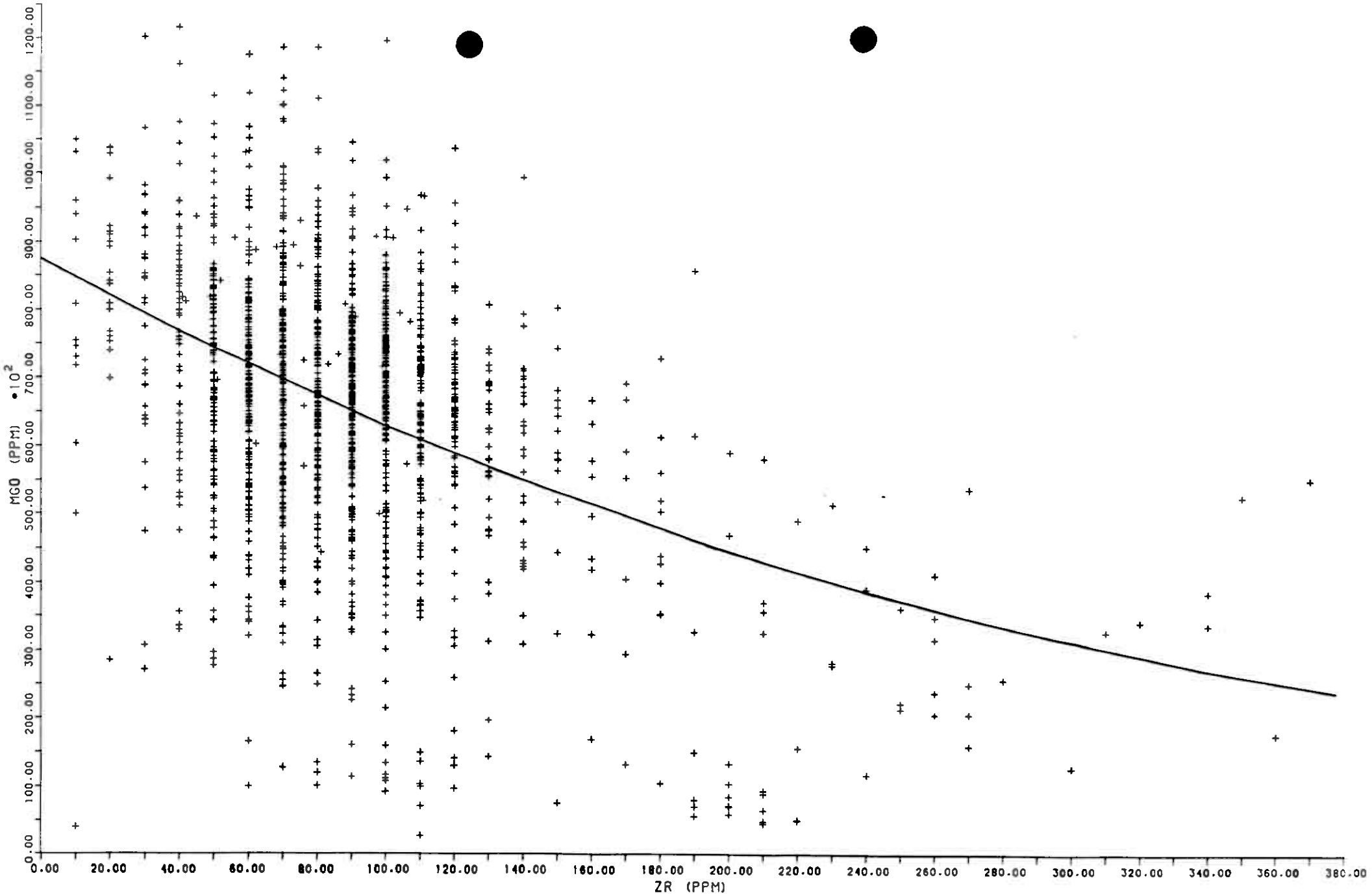
LOKKEN

05.11.85



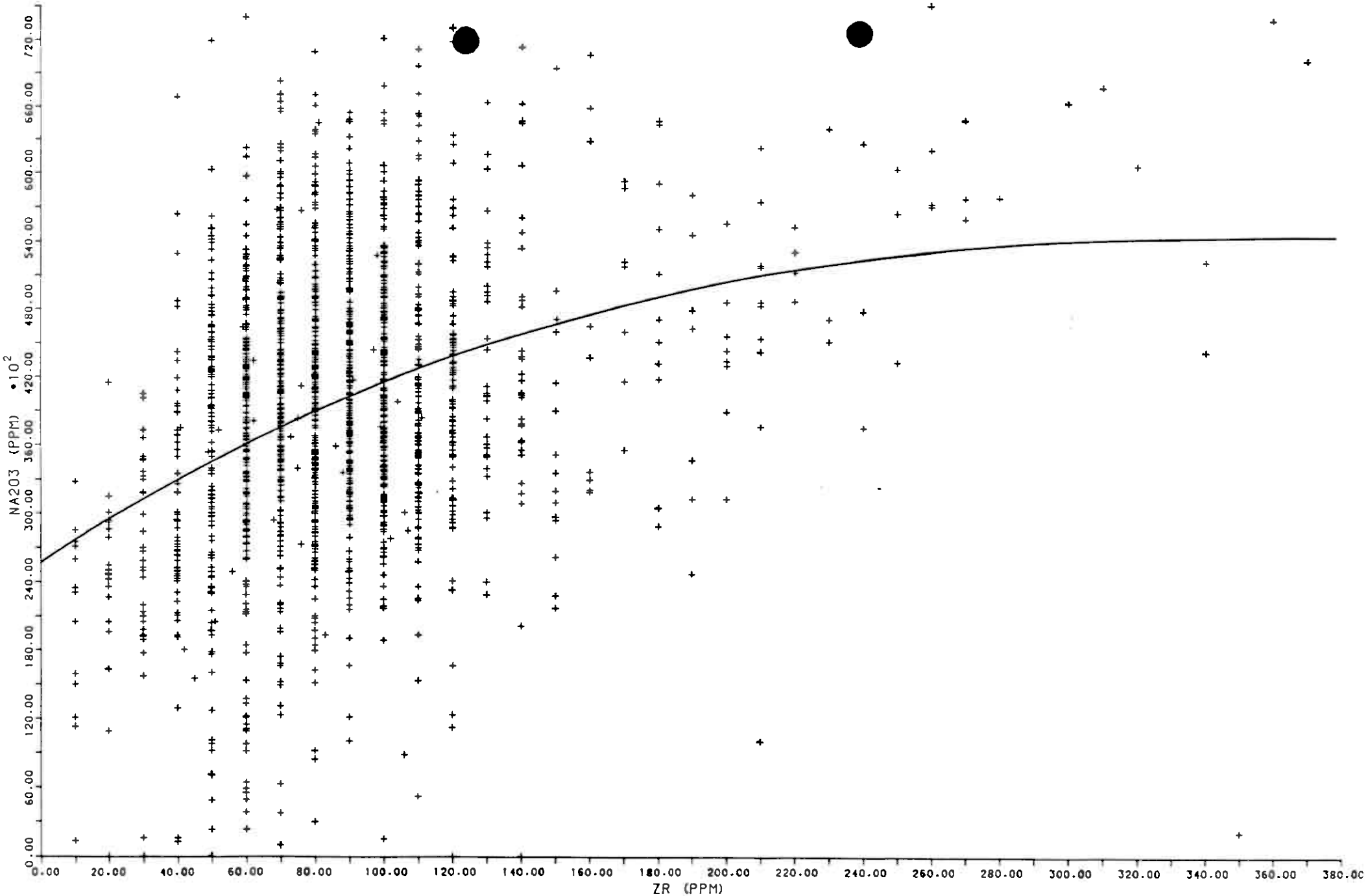
LOKKEN

05.11.85



LOKKEN

05.11.85



LOKKEN

05.11.85

D

ANALYSESTATISTIKK

LØKKEN Litho

- Middelverdi og avvik side 1 – 8
- frekvensfordelinger side 9 – 12
- frekvenskurver

OVERSETTELSE FINSK – NORSK

KESKIARVOT → MIDDELVERDI

HAJONNAT → AVVIK

LASKETUT RAJAT → BEREGNEDE GRENSER

PISTEITÄ KOOSSA → SAMLEDE POENG

FREKVENSSIJAKAUTUMAT → FREKVENSFORDELING

MIDDELVERDI og Avvik

MULTIELEMENTANALYSE KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU

13.05.85

CU (PPM) KA	CU (PPM) HAJ	ZN (PPM) KA	ZN (PPM) HAJ	NI (PPM) KA	NI (PPM) HAJ	CO (PPM) KA	CO (PPM) HAJ	PB (PPM) KA	PB (PPM) HAJ	AG (PPM) KA	AG (PPM) HAJ
55.4 1667	1004.5	93.5 1667	116.9	50.9 1667	60.2	41.0 1570	13.9	17.9 1667	11.1	1.36 275	0.87

MIDDEL VERDI Avvik

MULTIELEMENTANALYSE KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU

13.05.85 S

CU (PPM) KA	CU (PPM) HAJ	ZN (PPM) KA	ZN (PPM) HAJ	NI (PPM) KA	NI (PPM) HAJ	CO (PPM) KA	CO (PPM) HAJ	PB (PPM) KA	PB (PPM) HAJ	AG (PPM) KA	AG (PPM) HAJ
39.3 1667	4.8	83.8 1667	1.6	59.2 1667	3.3	36.9 1570	2.3	12.6 1667	5.3	1.06 275	3.07

ARITMEETTISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU 08.07.85 SI

FE (PPM) KA	FE (PPM) HAJ	NA2O (PPM) KA	NA2O (PPM) HAJ	MGO (PPM) KA	MGO (PPM) HAJ	CXS (PPM) KA	CXS (PPM) HAJ	AL2O3 (PPM) KA	AL2O3 (PPM) HAJ	SIO2 (PPM) KA	SIO2 (PPM) HAJ
77713	20025	39634	13009	65683	20670	971484	19940	152607	16566	498834	54791
1656		1656		1656		1656		1656		1656	

GEOMETRISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU 08.07.85 SI

FE (PPM) KA	FE (PPM) HAJ	NA2O (PPM) KA	NA2O (PPM) HAJ	MGO (PPM) KA	MGO (PPM) HAJ	CXS (PPM) KA	CXS (PPM) HAJ	AL2O3 (PPM) KA	AL2O3 (PPM) HAJ	SIO2 (PPM) KA	SIO2 (PPM) HAJ
74821	1	34463	4	60834	2	971274	1	151496	1	496207	1
1656		1656		1656		1656		1656		1656	

ARITMEETTISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU 08.07.85 SI

MN (PPM) KA	MN (PPM) HAJ	CR (PPM) KA	CR (PPM) HAJ	V (PPM) KA	V (PPM) HAJ	AS (PPM) KA	AS (PPM) HAJ	P (PPM) KA	P (PPM) HAJ	TI (PPM) KA	TI (PPM) HAJ
1274.6	427.0	202.9	171.4	317.7	105.3	14.9	21.9	592.5	364.0	7160.4	2398.5
1656		1656		1656		1656		1656		1656	

GEOMETRISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU 08.07.85 SI

MN (PPM) KA	MN (PPM) HAJ	CR (PPM) KA	CR (PPM) HAJ	V (PPM) KA	V (PPM) HAJ	AS (PPM) KA	AS (PPM) HAJ	P (PPM) KA	P (PPM) HAJ	TI (PPM) KA	TI (PPM) HAJ
1204.0	1.5	103.8	7.2	270.1	3.0	0.1	441.3	518.2	1.7	6675.0	1.5
1656		1656		1656		1656		1656		1656	

ARITMEETTISET KESKIARVOT JA HAJONNAT/KAHAJ/LUKUEN/OJITOKUMPU 10.07.85 SI

CS (PPM) KA	CS (PPM) HAJ	SR (PPM) KA	SR (PPM) HAJ	Y (PPM) KA	Y (PPM) HAJ	ZR (PPM) KA	ZR (PPM) HAJ	NB (PPM) KA	NB (PPM) HAJ	MO (PPM) KA	MO (PPM) HAJ
14.5	9.9	43.9	75.5	35.0	10.4	91.3	56.0	1.1	3.9	1.3	0.6
1656		1656		1656		1656		1656		1656	

ARITMEETTISET KESKIARVOT JA HAJONNAT/KAHAJ/LUKUEN/OJITOKUMPU 10.07.85 SI

CS (PPM) KA	CS (PPM) HAJ	SR (PPM) KA	SR (PPM) HAJ	Y (PPM) KA	Y (PPM) HAJ	ZR (PPM) KA	ZR (PPM) HAJ	NB (PPM) KA	NB (PPM) HAJ	MO (PPM) KA	MO (PPM) HAJ
2.1	44.3	10.3	16.3	25.2	6.1	80.9	1.8	0.0	33.7	0.0	27.7
1656		1656		1656		1656		1656		1656	

ARITMEETTISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU

08.07.85 SI

U (PPM) KA	HAJ	TH (PPM) KA	HAJ	BI (PPM) KA	HAJ	TA (PPM) KA	HAJ	CE (PPM) KA	HAJ	LA (PPM) KA	HAJ
0.2 1656	1.3	4.9 1656	5.5	0.9 1656	3.0	3.3 1656	7.2	6.5 1656	15.9	0.3 1656	3.0

GEOMETRISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU

08.07.85 SI

U (PPM) KA	HAJ	TH (PPM) KA	HAJ	BI (PPM) KA	HAJ	TA (PPM) KA	HAJ	CE (PPM) KA	HAJ	LA (PPM) KA	HAJ
0.0 1656	4.4	0.0 1656	317.2	0.0 1656	23.7	0.0 1656	180.0	0.0 1656	286.6	0.0 1656	4.0

ARITMEETTISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU

10.07.85 SI

CL (PPM) KA	HAJ	K2O (PPM) KA	HAJ	CAO (PPM) KA	HAJ	S (PPM) KA	HAJ	P2 (PPM) KA	HAJ	SR (PPM) KA	HAJ	SN (PPM) KA	HAJ	SB (PPM) KA	HA
0.0 1656	74.3	3240 1656	3295	82704 1656	30435	1404.2 1667	9310.8	17.2 1656	11.5	140.5 1656	104.2	3.9 1656	6.6	3.5 1656	4.

GEOMETRISET KESKIARVOT JA HAJONNAT/KAHAJ/LOKKEN/OUTOKUMPU

10.07.85 SI

CL (PPM) KA	HAJ	K2O (PPM) KA	HAJ	CAO (PPM) KA	HAJ	S (PPM) KA	HAJ	P2 (PPM) KA	HAJ	SR (PPM) KA	HAJ	SN (PPM) KA	HAJ	SB (PPM) KA	HA
0.0 1656	241.5	1439 1656	3	74403 1656	2	11.3 1667	877.9	1.9 1656	124.6	116.2 1656	1.8	0.0 1656	256.8	0.0 1656	242.

4

RAUTARUUKKI OY
RAAHEN RAUTATEHDAS
RA TLB

ANALYYSIYHTEENVETO X179
PÄIVITTÄINEN &P.&K.&V

279 07.05.85 16:09:28

	NA2O	MGO	AL2O3	SIO2	P	S	CL	K2O	CAO	TI
	V	CR	MN	FE	NI	CU	ZN	AS	RB	SR
	Y	ZR	NB	MO	SN	SB	CS	BA	LA	CE
	TA	PB	BI	TH	U	SUM				
NÄYTEKOODIT	4284 - 4284	NÄYTENUMEROT	39026	- 39205						
KESKIARVO (MIDDELVERDI)	3.892	6.964	15.695	49.000	0.054	0.072	0.002	0.360	8.649	0.717
	0.032	0.021	0.132	7.869	0.009	0.005	0.008	0.000	0.002	0.014
	0.004	0.008	0.000	0.000	0.000	0.000	0.001	0.004	0.000	0.000
	0.000	0.001	0.001	0.001	0.000	97.515				
HAJONTA (avvik)	1.328	1.740	1.466	4.036	0.022	0.161	0.005	0.487	3.045	0.209
	0.009	0.016	0.036	1.526	0.006	0.004	0.006	0.001	0.001	0.007
	0.001	0.003	0.000	0.000	0.000	0.001	0.001	0.004	0.000	0.001
	0.000	0.000	0.001	0.000	0.000	2.122				
LUKUMÄÄRÄ (number)	180	180	180	180	180	180	180	180	180	180
	180	180	180	180	180	180	180	180	180	180
	180	180	180	180	180	180	180	180	180	180
	180	180	180	180	180	180				
MINIMI	3.381	1.800	11.540	27.650	0.013	0.001	0.000	0.018	1.070	0.237
	0.002	0.001	0.020	1.860	0.000	0.000	0.002	0.000	0.001	0.002
	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	81.600				
MAKSIMI	8.010	11.860	23.670	74.970	0.135	1.350	0.031	2.650	24.770	1.980
	0.080	0.133	0.265	14.230	0.029	0.033	0.078	0.006	0.006	0.046
	0.008	0.025	0.001	0.001	0.001	0.002	0.004	0.025	0.000	0.004
	0.002	0.002	0.001	0.002	0.000	99.960				

9

RAUTARUUKKI OY
RAAHEN RAUTATEHDAS
RA TLB

ANALYYSIYHTEENVETO X179
PÄIVITTÄINEN &P.&K.&V

212 27.03.85 16:08:56

	NA2O	MGO	AL2O3	SIO2	P	S	CL	K2O	CAO	TI
	V	CR	MN	FE	NI	CU	ZN	AS	RB	SR
	Y	ZR	NB	MO	SN	SB	CS	BA	LA	CE
	TA	PB	BI	TH	U	SUM				

PROVE

NÄYTEKOODIT 4284 - 4284 NÄYTENUMEROT 37585 - 38020

37585 - 37898
37941 - 38020 (008-20 B4 jauhe T17)

MITTAUSARVO

KESKIARVO	3.864	6.465	15.471	49.769	0.056	0.274	0.004	0.250	8.878	0.687
	0.032	0.022	0.125	7.567	0.008	0.006	0.009	0.003	0.002	0.015
	0.004	0.008	0.000	0.000	0.000	0.000	0.001	0.005	0.000	0.001
	0.000	0.001	0.000	0.001	0.000	97.284				
HAJONTA	1.355	2.148	2.014	5.169	0.038	1.550	0.011	0.403	3.155	0.263
	0.012	0.019	0.031	2.115	0.007	0.005	0.007	0.003	0.001	0.011
	0.001	0.008	0.000	0.000	0.001	0.000	0.001	0.006	0.000	0.001
	0.001	0.001	0.000	0.001	0.000	1.995				
LUKUMÄÄRÄ	394	394	394	394	394	394	394	394	394	394
	394	394	394	394	394	394	394	394	394	394
	394	394	394	394	394	394	394	394	394	394
	394	394	394	394	394	394				
MINIMI	0.000	0.263	1.300	26.840	0.002	0.000	0.000	0.010	0.288	0.051
	0.001	0.000	0.016	1.000	0.000	0.000	0.000	0.000	0.000	0.001
	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	87.120				
MAKSIMI	7.750	20.260	23.380	91.400	0.345	18.520	0.093	2.660	16.700	2.510
	0.108	0.174	0.276	22.390	0.080	0.040	0.113	0.032	0.008	0.078
	0.018	0.100	0.002	0.004	0.016	0.001	0.005	0.065	0.003	0.011
	0.015	0.016	0.005	0.003	0.001	99.810				

RAUTARUUKKI OY
RAAHEN RAUTATEHDAS
RA TLB

ANALYYSIYHTEENVETO X179
PÄIVITTÄINEN &P.&K.&V

202 15.11.84 14:38:25

	NA2O	MGO	AL2O3	SIO2	P	S	CL	K2O	CAO	TI
	V	CR	MN	FE	NI	CU	ZN	AS	RB	SR
	Y	ZR	NB	MO	SN	SB	CS	BA	LA	CE
	TA	PB	BI	TH	U	SUM				
NÄYTEKOODIT	4284 - 4284	NÄYTENUMEROT		37532	= 39025					

37532 - 37584 NT
38751 - 39025 LO

MIDDELVERDI
KESKIARVO

3.907	6.633	15.119	51.466	0.056	0.219	0.003	0.462	7.692	0.657
0.027	0.022	0.127	7.275	0.008	0.021	0.011	0.001	0.002	0.015
0.004	0.010	0.000	0.000	0.000	0.000	0.001	0.008	0.000	0.001
0.001	0.001	0.000	0.000	0.000	97.383				

RVIK
HAJONTA

1.350	2.647	1.641	8.449	0.041	1.012	0.007	0.646	3.398	0.277
0.012	0.017	0.064	2.784	0.006	0.256	0.025	0.002	0.001	0.014
0.001	0.008	0.001	0.001	0.000	0.000	0.001	0.013	0.001	0.003
0.001	0.001	0.000	0.001	0.000	1.730				

LUKUMÄÄRÄ

287	287	287	287	287	287	287	287	287	287
287	287	287	287	287	287	287	287	287	287
287	287	287	287	287	287	287	287	287	287
287	287	287	287	287	287				

MINIMI

0.000	0.306	9.520	22.350	0.006	0.000	0.000	0.004	0.045	0.117
0.000	0.000	0.016	1.210	0.000	0.000	0.000	0.000	0.001	0.001
0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	89.090				

MAKSIMI

8.490	14.120	20.200	78.780	0.327	11.910	0.056	4.470	15.650	2.180
0.079	0.119	0.606	25.930	0.047	4.330	0.334	0.008	0.008	0.136
0.013	0.068	0.006	0.004	0.002	0.001	0.012	0.137	0.007	0.023
0.004	0.019	0.001	0.002	0.001	99.880				

RAUTARUUKKI OY
RAAHEN RAUTATEHDAS
RA TLB

ANALYYSIYHTEENVETO
ULKOPUOLISTEN NÄYTTEET
KASTELLI/TLB

134 25.06.85 13:13:54

	NA2O	MGO	AL2O3	SIO2	P	S	CL	K2O	CAO	TI
	V	CR	MN	FE	NI	CU	ZN	AS	RB	SR
	Y	ZR	NB	MO	SN	SB	CS	BA	LA	CE
	TA	PB	BI	TH	U	SUM				

NÄYTEKOODIT 4284 - 4284 NÄYTENUMEROT 39206 - 40000

MIDDELVERDI
KESKIARVO

4.049	6.508	15.109	49.269	0.065	0.091	0.002	0.307	8.109	0.751
0.033	0.019	0.129	8.030	0.007	0.006	0.009	0.001	0.001	0.014
0.003	0.009	0.000	0.000	0.001	0.000	0.001	0.004	0.000	0.001
0.000	0.001	0.000	0.000	0.000	98.914				

AVVIK
HAJONTA

1.245	1.836	1.470	4.333	0.036	0.224	0.006	0.537	2.798	0.213
0.009	0.016	0.040	1.628	0.006	0.011	0.006	0.001	0.001	0.009
0.002	0.004	0.000	0.001	0.001	0.000	0.001	0.005	0.000	0.001
0.000	0.001	0.000	0.000	0.000	2.026				

LUKUMÄÄRÄ

795	795	795	795	795	795	795	795	795	795
795	795	795	795	795	795	795	795	795	795
795	795	795	795	795	795	795	795	795	795
795	795	795	795	795	795				

MINIMI

0.000	0.921	4.110	37.920	0.012	0.001	0.000	0.010	0.849	0.114
0.003	0.000	0.021	1.530	0.000	0.000	0.001	0.000	0.000	0.001
0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	97.730				

MAKSIMI

8.860	17.780	22.810	73.810	0.555	0.160	0.067	5.090	20.630	2.000
0.098	0.153	0.378	17.570	0.060	0.277	0.101	0.009	0.008	0.089
0.008	0.056	0.004	0.016	0.002	0.002	0.004	0.076	0.005	0.023
0.002	0.007	0.001	0.004	0.001	99.950				

∞

LOKKEN OUTOKUMPU OY 30.0[illegible]65

BEREGNEDE GRENSER:

			16%	50%	84.1%	97.7%
CU	1666 KPL, LASKETUT RAJAT :		14	50	80	173
	96.500-103.000 26.500- 46.500	1: 20000				
	PISTEITÄ KOOSSA 1604					
	Samlede poenger					
ZN	1666 KPL, LASKETUT RAJAT :		60	89	114	210
	96.500-103.000 26.500- 46.500	1: 20000				
	PISTEITÄ KOOSSA 1604					
NI	1666 KPL, LASKETUT RAJAT :		59	80	138	232
	96.500-103.000 26.500- 46.500	1: 20000				
	PISTEITÄ KOOSSA 1604					
CO	1669 KPL, LASKETUT RAJAT :		30	40	51	73
	96.500-103.000 26.500- 46.500	1: 20000				
	PISTEITÄ KOOSSA 1519					
PB	1666 KPL, LASKETUT RAJAT :		9	16	27	39
	96.500-103.000 26.500- 46.500	1: 20000				
	PISTEITÄ KOOSSA 1604					
AG	275 KPL, LASKETUT RAJAT :		0.8	1.2	1.7	3.4
	96.500-103.000 26.500- 46.500	1: 20000				
	PISTEITÄ KOOSSA 249					

Frekvensfordeling.

FREKVENSSIJAKAUTLMAT/FREKP/LOKKEN/CUTOKUMPU 29.05.85 SIVU 1

CU (PPM)

HLUKM	0.200	0.272	0.370	0.503	0.683	0.929	1.263	1.717	2.334	3.173	4.314	5.865	7.974	10.84	14.74	20.04	27.24	37.03	50.35
	56.45	93.06	126.5	172.0	233.8	317.9	432.2	587.6	798.8	1086	1477	2007	2729	3710	5044	6858	9323	12675	17232
	23427	31949	43300																
1567	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.4	2.9	5.2	4.7	4.9	6.3	8.3	16.3
	21.1	17.9	4.2	1.9	1.0	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.1																
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.9	3.3	6.2	11.4	16.1	21.1	27.4	36.2	52.5
	78.2	91.2	95.7	97.7	98.7	99.2	99.5	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	99.9	99.9	100.0																
	16.00		14.60800	50.00		48.04352	84.10		81.92526	97.70		174.06546							

FREKVENSSIJAKAUTLMAT/FREKP/LOKKEN/CUTOKUMPU 29.05.85 SIVU 2

ZN (PPM)

HLUKM	0.200	0.250	0.325	0.415	0.529	0.674	0.860	1.096	1.398	1.783	2.274	2.899	3.697	4.714	6.011	7.666	9.775	12.46	15.89
	20.27	25.85	32.96	42.03	53.59	68.34	87.14	111.1	141.7	180.7	230.4	293.8	374.7	477.8	609.2	776.9	990.6	1263	1611
	2054	2619	3340																
1667	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	0.4	0.4	1.7	2.9	5.7	10.0	24.5	36.1	11.5	2.8	1.0	0.7	0.4	0.2	0.4	0.1	0.1	0.2	0.1
	0.1	0.0	0.1																
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	0.5	0.9	2.6	5.5	12.2	22.2	46.7	82.7	94.2	96.9	97.9	98.6	99.0	99.2	99.5	99.6	99.6	99.8	99.9
	99.9	99.9	100.0																
	16.00		58.79916	50.00		89.12007	84.10		114.41364	97.70		219.00729							

10

FREKVENSSIJAKAUTUMAT/FREKP/LOKKEN/CUTOKUMPU 29.05.85 SIVU 3

NI (PPM)

HLUKM	0.200	0.246	0.302	0.372	0.457	0.562	0.691	0.849	1.044	1.283	1.577	1.939	2.384	2.931	3.604	4.430	5.446	6.696	8.232
	10.12	12.44	15.30	18.30	23.12	28.42	34.94	42.96	52.81	64.93	79.82	98.13	120.6	148.3	182.3	224.2	275.6	338.8	416.5
	512.1	629.6	774.0																
16e7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.2
	0.6	0.3	0.7	1.0	2.6	2.3	4.0	5.1	7.3	9.6	14.2	16.2	11.5	10.1	6.5	3.7	1.4	0.9	0.2
	0.2	0.1	0.1																
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	1.0	1.1	1.3
	2.0	2.3	2.0	4.0	6.7	8.9	12.9	18.0	25.3	34.9	49.1	65.3	76.8	87.0	93.5	97.2	98.6	99.5	99.7
	99.9	99.9	100.0																
	16.00	29.62094	50.00		80.71187	84.10		139.86087	97.70		241.51875								

FREKVENSSIJAKAUTUMAT/FREKP/LOKKEN/CUTOKUMPU 29.05.85 SIVU 4

CO (PPM)

HLUKM	0.200	0.237	0.280	0.332	0.393	0.465	0.551	0.652	0.772	0.914	1.081	1.280	1.516	1.794	2.124	2.515	2.977	3.525	4.173
	4.940	5.848	6.923	8.196	9.703	11.49	13.60	16.10	19.06	22.56	26.71	31.62	37.44	44.32	52.47	62.12	73.54	87.06	103.1
	122.0	144.4	171.0																
1570	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4
	0.0	0.1	0.2	0.3	0.3	0.4	0.6	1.3	1.5	1.3	4.2	8.3	17.5	29.7	19.5	5.7	6.0	2.1	0.1
	0.0	0.0	0.0																
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	1.0
	1.0	1.1	1.3	1.5	1.8	2.3	2.9	4.1	5.6	6.9	11.1	19.4	36.9	66.6	86.1	91.8	97.8	99.9	99.9
	99.9	99.9	99.9																
	16.00	29.48059	50.00		40.33069	84.10		51.56133	97.70		73.38959								

FREKVENSSIJAKAUTUMAT/FREKP/LOKKEN/CUTOKUMPU

29.05.85 SIVU 5

PB (PPM)

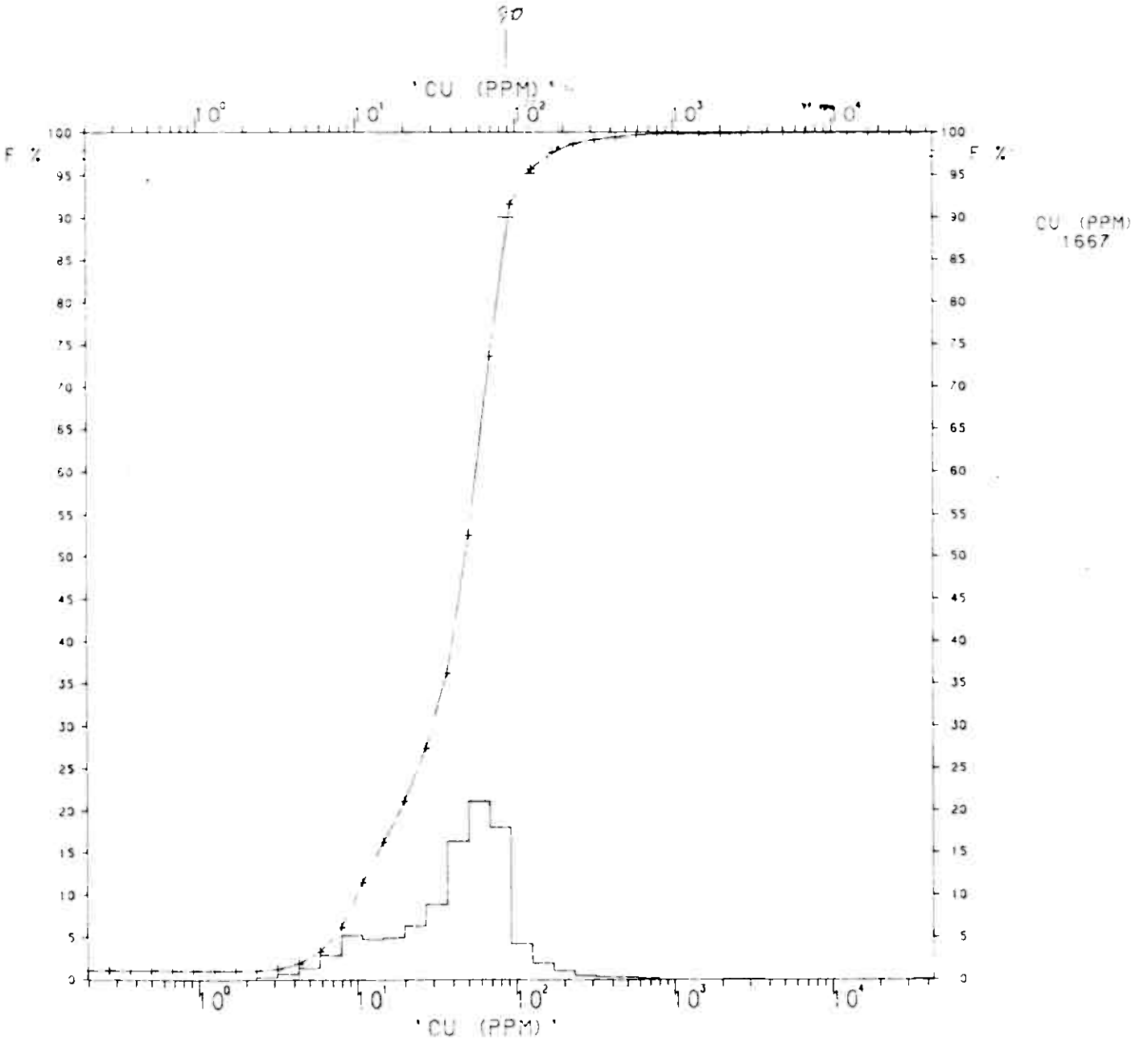
RLUKKO	.02000	.02520	.03160	.03980	.05010	.06300	.07920	.0996	0.125	0.158	0.198	0.249	0.314	0.394	0.496	0.624	0.785	0.987	1.242
	1.562	1.965	2.471	3.108	3.910	4.918	6.185	7.780	9.786	12.31	15.48	19.47	24.49	30.81	38.75	48.74	61.30	77.11	96.99
	122.0	153.4	193.0																
1667	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
	0.0	0.0	0.4	1.4	0.0	1.3	3.7	2.0	5.7	15.7	14.2	14.3	16.4	12.5	7.7	1.5	0.6	0.1	0.1
	0.3	0.1	0.1																
	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
	2.3	2.3	2.6	4.1	4.1	5.4	9.1	11.2	16.9	32.6	46.7	61.1	77.5	90.0	97.7	99.2	99.8	99.8	99.9
	99.9	99.9	100.0																
	16.00		9.45394	50.00		16.31277	84.10		27.64992	97.70		38.98480							

FREKVENSSIJAKAUTUMAT/FREKP/LOKKEN/CUTOKUMPU

29.05.85 SIVU 6

AG (PPM)

RLUKKO	.02000	.02330	.02720	.03160	.03700	.04320	.05040	.05880	.06860	.08000	.0934	0.109	0.127	0.148	0.173	0.202	0.235	0.275	0.320
	0.374	0.436	0.509	0.593	0.692	0.807	0.942	1.099	1.282	1.495	1.744	2.035	2.374	2.769	3.231	3.769	4.397	5.129	5.984
	6.981	8.143	9.500																
275	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.1	0.0	0.0	1.1
	0.0	2.2	2.5	0.0	2.2	7.3	6.2	5.8	21.1	18.2	14.9	4.4	2.9	2.9	1.8	1.8	0.7	0.7	0.0
	0.0	0.0	0.4																
	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8	1.8	1.8	2.9	2.9	2.9	4.0
	4.0	6.2	8.7	8.7	10.9	18.2	24.4	30.2	51.3	69.5	84.4	88.7	91.6	94.5	96.4	98.2	98.9	99.6	99.6
	99.6	99.6	100.0																
	16.00		0.77085	50.00		1.26987	84.10		1.73960	97.70		3.61816							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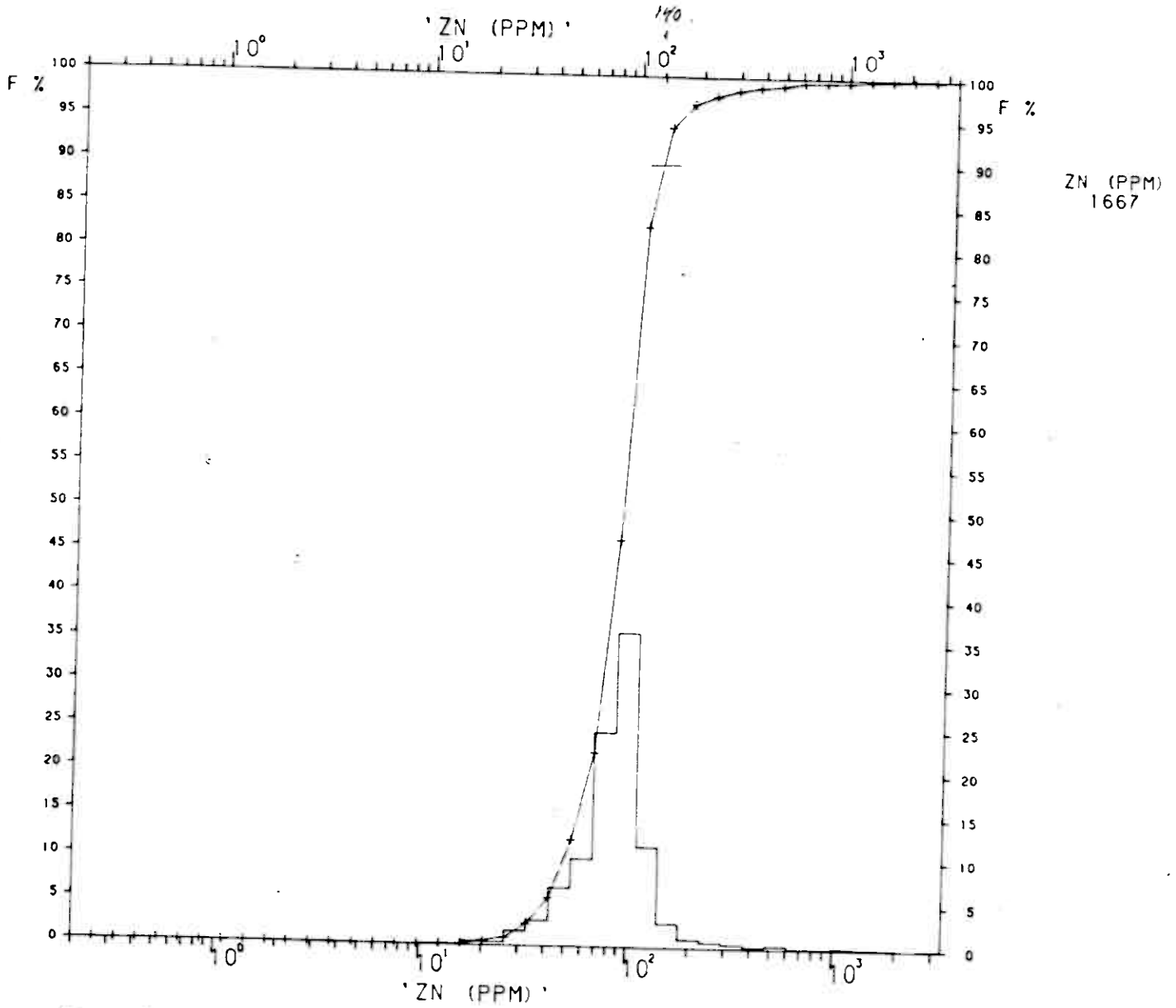
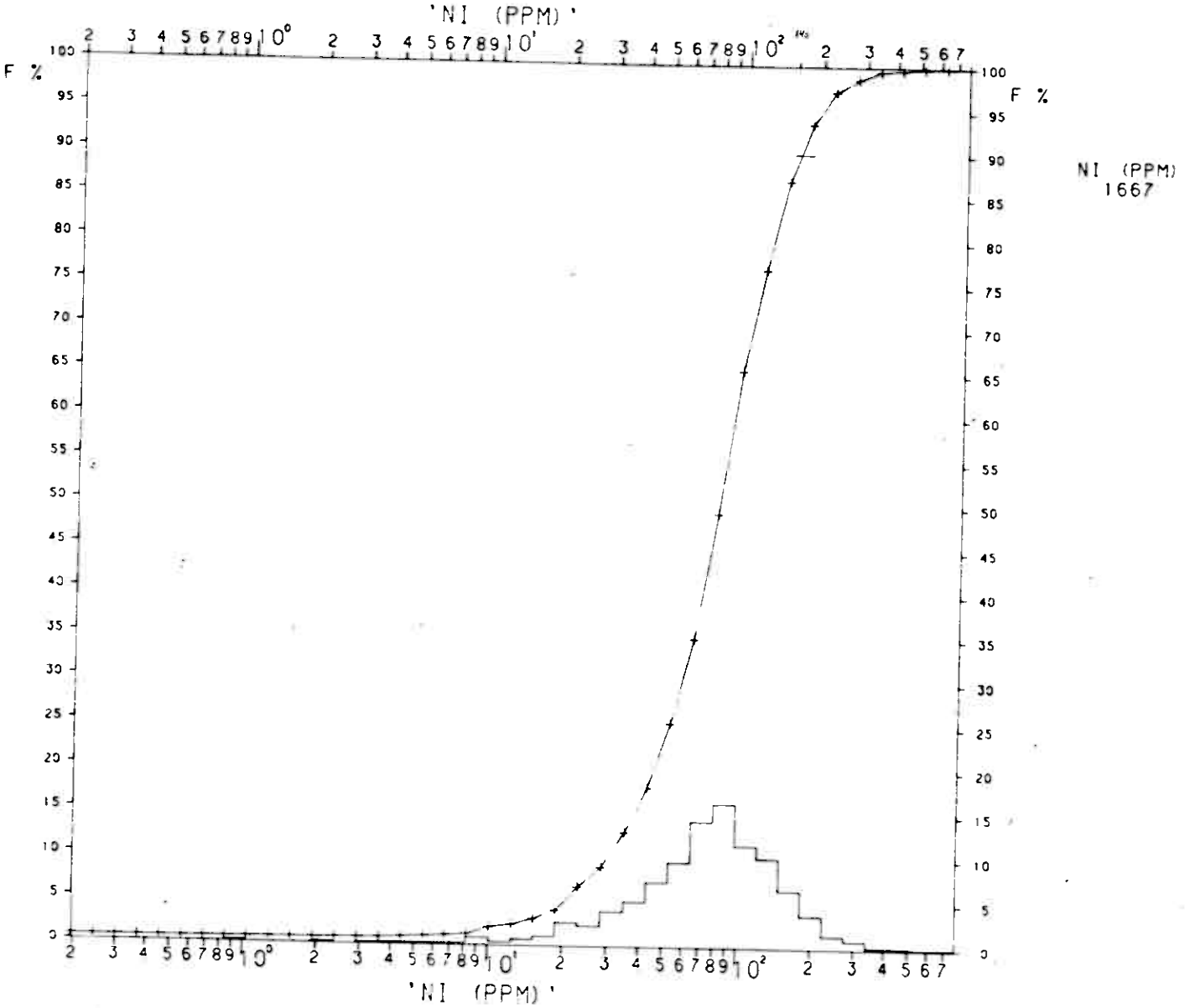
F %
CU (PPM)
1667
FREKP/LOKKEN/OUTOKUMPU



FREKP/LOKKEN/OUTOKUMPU



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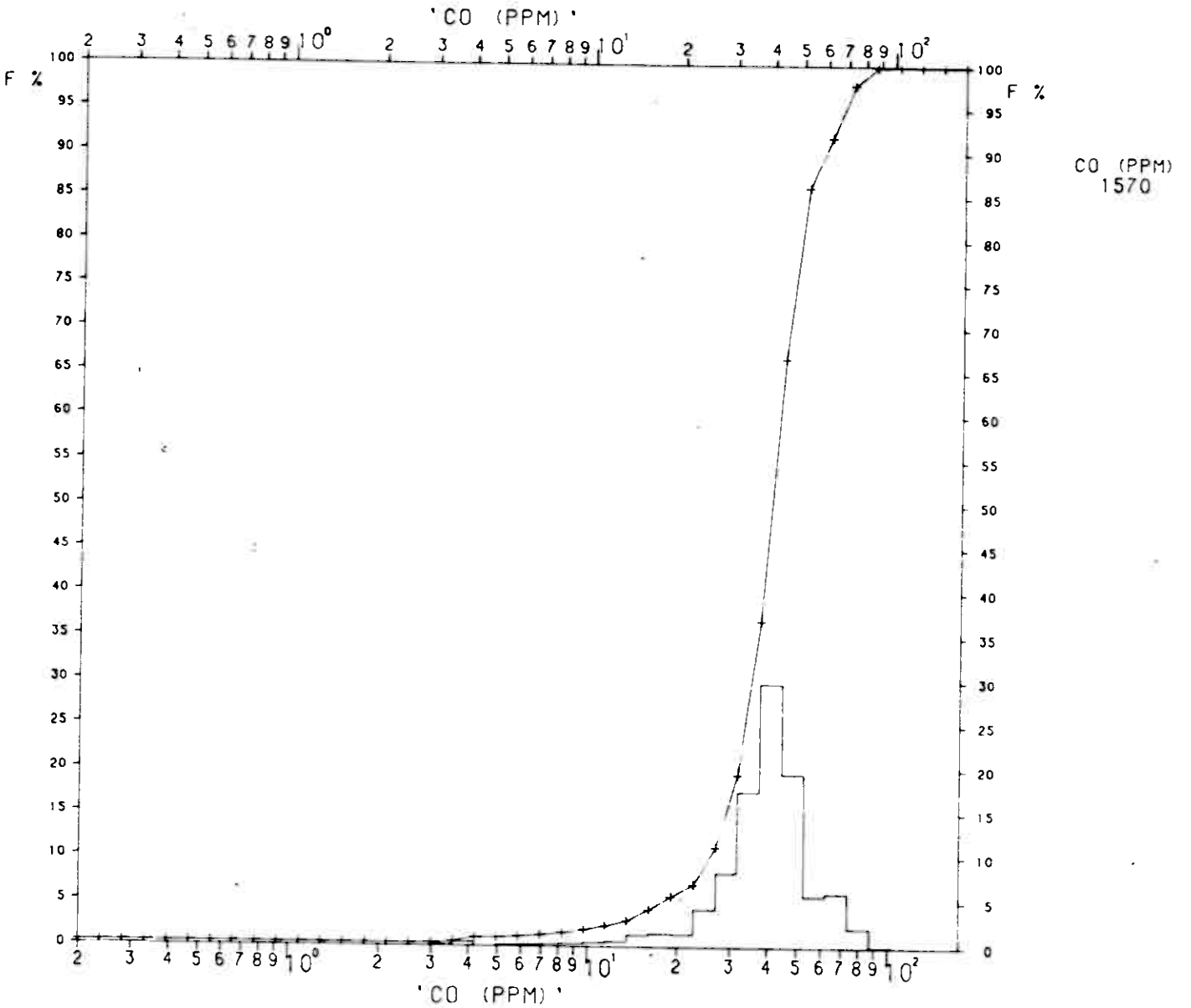
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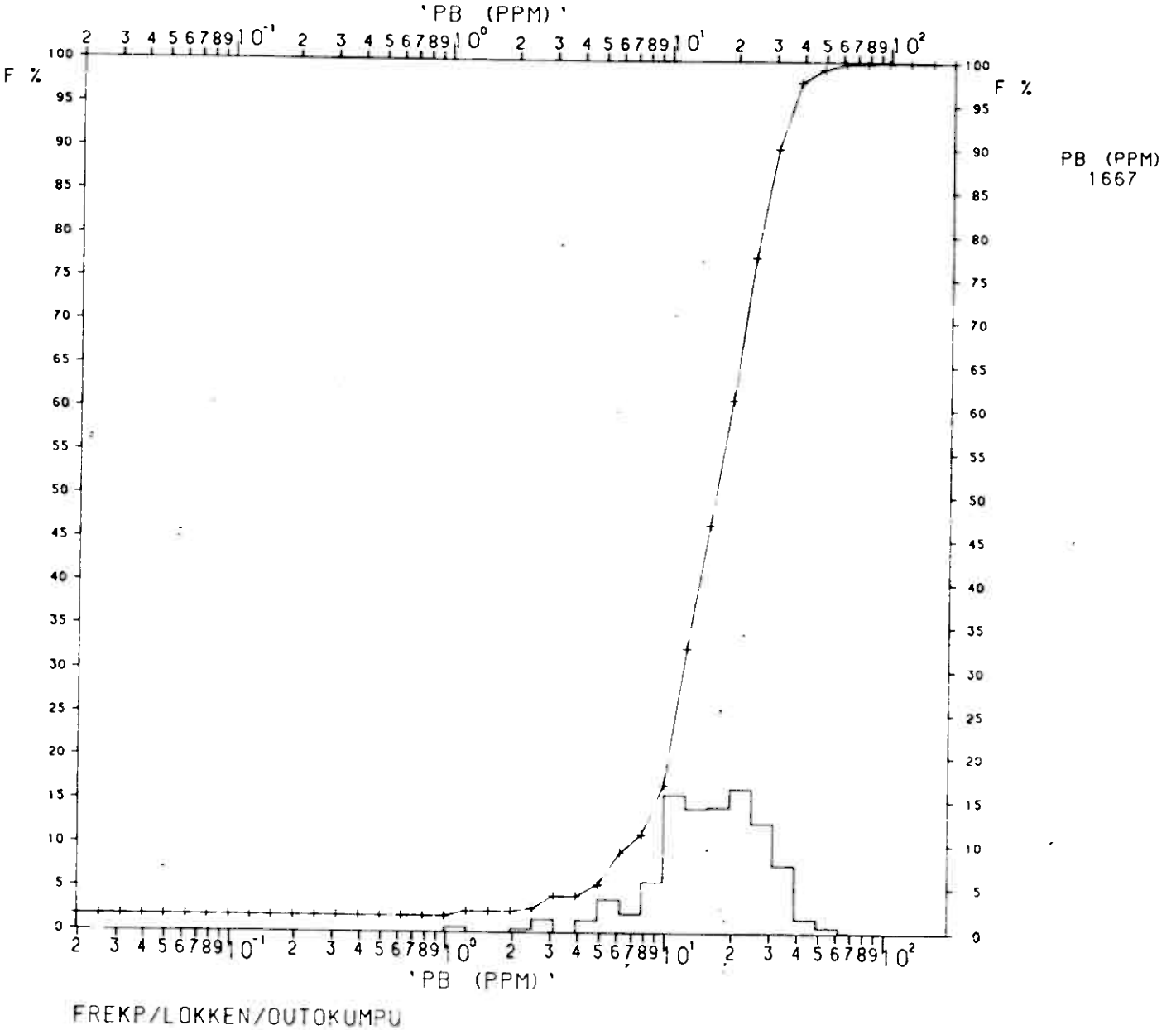
F %
CO (PPM)
1570
FREKP/LOKKEN/OUTOKUMPU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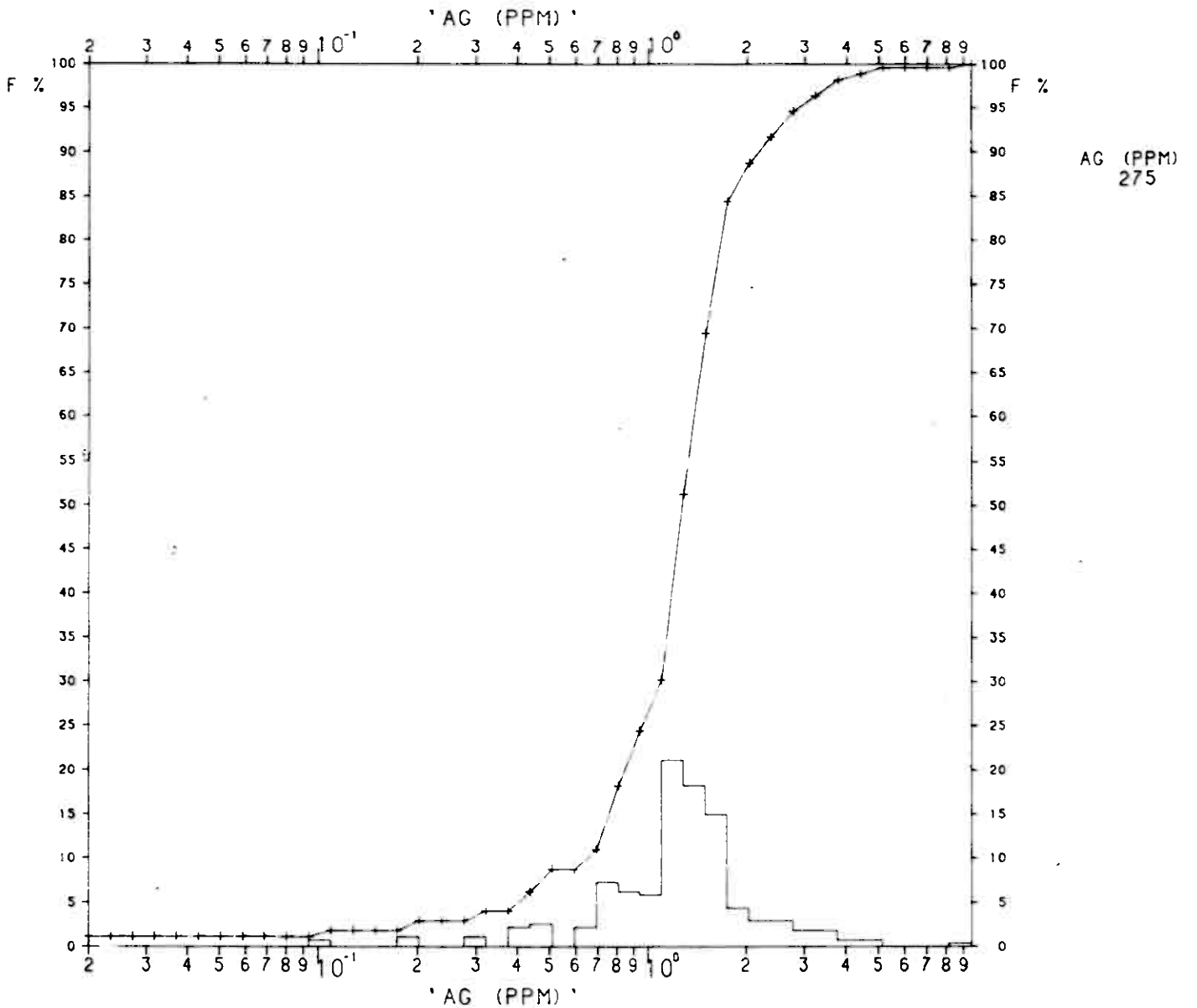
F %
PB (PPM)
1667
FREKP/LOKKEN/OUTOKUMPU


'AG (PPM)'
F %
AG (PPM)
275
FREKP/LOKKEN/OUTOKUMPU

E

Outokumpu Oy
PL 27, 02201 Espoo 20, Finland
Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM - Coordinates
305 - 1	84 - 37585	b		X	X				3050 9736
305 - 2	37586	b		X	X				3043 9813
305 - 3	37587	b		X	X				3051 9832
305 - 4	37588	b		X	X				3049 9826
305 - 5	37589	b		X	X				3048 9835
305 - 6	37590	b		X	X				3048 9847
305 - 7	37591	b		X	X				3050 9856
305 - 8	37592	b		X	X				3049 9871
305 - 9	37593	b		X	X				3046 9874
305 - 10	37594	b		X	X				3050 9892
305 - 11	37595	b		X	X				3050 9898
305 - 12	37596	b		X	X				3050 9903
305 - 13	37597	b		X	X				3047 9930
305 - 14	37598	b		X	X				3050 9951
305 - 15	37599	b		X	X				3049 9957
305 - 16	37600	b		X	X				3050 9964
305 - 17	37601	b		X	X				3050 0044
305 - 18	37602	b		X	X				3044 0054
305 - 19	37603	b		X	X				3047 0110
305 - 20	37604	b		X	X				3048 0124
305 - 21	37605	b		X	X				3048 0131
305 - 22	37606	b		X	X				3051 0137
305 - 23	37607	b		X	X				3049 0142
305 - 24	37608	b		X	X				3050 0149
305 - 25	37609	b		X	X				3050 0153

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
305 - 26	84 - 37610	b		X	X				3051 0158
305 - 27	37611	b		X	X				3056 0168
305 - 28	37612	b		X	X				3049 0172
305 - 29	37613	b		X	X				3054 0190
305 - 30	37614	b		X	X				3051 0203
305 - 31	37615	b		X	X				3051 0208
305 - 32	37616	b		X	X				3054 0238
305 - 33	37617	b		X	X				3053 0262
305 - 34	37618	b		X	X				3049 0271
310 - 1	37619	b		X	X				3124 9814
310 - 2	37620	b		X	X				3116 9817
310 - 3A	37621	b		X	X				3116 9822
310 - 3B	37622	b		X	X				3110 9832
310 - 4	37623	b		X	X				3116 9838
310 - 5	37624	b		X	X				3118 9845
310 - 6	37625	b		X	X				3122 9851
310 - 7	37626	b		X	X				3120 9856
310 - 8	37627	b		X	X				3120 9864
310 - 9	37628	b		X	X				3117 9867
310 - 10	37629	b		X	X				3117 9872
310 - 11	37630	b		X	X				3103 9962
310 - 12	37631	b		X	X				3102 9973
310 - 13	37632	b		X	X				3101 9986
310 - 14	37633	b		X	X				3100 9986
310 - 15	37634	b		X	X				3097 9994

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
310 - 16	84 - 37635	b		X	X				3099 0001
310 - 17	37636	b		X	X				3098 0008
310 - 20	37637	b		X	X				3102 0082
310 - 23	37638	b		X	X				3106 0126
310 - 24	37639	b		X	X				3107 0132
310 - 25	37640	b		X	X				3095 0148
310 - 27	37641	b		X	X				3101 0187
310 - 28	37642	b		X	X				3107 0200
310 - 29	37643	b		X	X				3101 0204
310 - 31	37644	b		X	X				3098 0245
310 - 32	37645	b		X	X				3099 0279
320 - 31	37646	b		X	X				3201 0141
320 - 32	37647	b		X	X				3198 0154
320 - 33	37648	b		X	X				3195 0176
320 - 34	37649	b		X	X				3199 0200
320 - 35	37650	b		X	X				3201 0218
320 - 36	37651	b		X	X				3199 0225
320 - 37	37652	b		X	X				3199 0296
425 - 1	37653	b		X	X				4247 9781
425 - 2	37654	b		X	X				4249 9787
425 - 3	37655	b		X	X				4254 9791
425 - 4	37656	b		X	X				4249 9800
425 - 5	37657	b		X	X				4248 9807
425 - 6	37658	b		X	X				4248 9826
425 - 7	37659	b		X	X				4249 9833

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
425 - 8	84 - 37660	b		X	X				4245 9839
425 - 9	37661	b		X	X				4247 9845
425 - 10	37662	b		X	X				4249 9857
425 - 11	37663	b		X	X				4261 9870
425 - 12	37664	b		X	X				4259 9880
425 - 13	37665	b		X	X				4260 9892
425 - 14	37666	b		X	X				4248 9901
425 - 15	37667	b		X	X				4249 9927
425 - 16	37668	b		X	X				4243 9941
425 - 17	37669	b		X	X				4242 9976
425 - 18	37670	b		X	X				4240 9981
425 - 19	37671	b		X	X				4249 9994
425 - 20	37672	b		X	X				4253 0021
425 - 21	37673	b		X	X				4251 0030
425 - 22	37674	b		X	X				4250 0042
435 - 1	37675	b		X	X				4350 9783
435 - 2	37676	b		X	X				4348 9789
435 - 3	37677	b		X	X				4352 9798
435 - 4	37678	b		X	X				4350 9804
435 - 5	37679	b		X	X				4349 9818
435 - 6	37680	b		X	X				4353 9874
435 - 7	37681	b		X	X				4351 9883
435 - 8	37682	b		X	X				4342 9904
435 - 9	37683	b		X	X				4345 9908
435 - 10	37684	b		X	X				4350 9913

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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PL 27, 02201 Espoo 20, Finland
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Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
435 - 11	84 - 37685	b		X	X				4351 9930
435 - 12	37686	b		X	X				4354 9934
435 - 13	37687	b		X	X				4352 9938
435 - 14	37688	b		X	X				4352 9954
435 - 15	37689	b		X	X				4353 9959
435 - 16	37690	b		X	X				4352 9963
435 - 17	37691	b		X	X				4352 9969
435 - 18	37692	b		X	X				4351 9973
435 - 19	37693	b		X	X				4360 0008
435 - 20	37694	b		X	X				4352 0025
435 - 21	37695	b		X	X				4356 0032
435 - 22	37696	b		X	X				4344 0048
435 - 23	37697	b		X	X				4342 0058
435 - 24	37698	b		X	X				4345 0069
435 - 25	37699	b		X	X				4354 0087
440 - 1	37700	b		X	X				4402 9780
440 - 2	37701	b		X	X				4397 9788
440 - 3	37702	b		X	X				4397 9796
440 - 4	37703	b		X	X				4405 9806
440 - 5	37704	b		X	X				4405 9826
440 - 6	37705	b		X	X				4400 9835
440 - 7	37706	b		X	X				4397 9843
440 - 8	37707	b		X	X				4395 9852
440 - 9	37708	b		X	X				4396 9858
440 - 10	37709	b		X	X				4401 9865

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken Gruber A/S & Co
7332 Løkken Verk
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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
440 -11	84 -37710	b		X	X				4400 9869
440 -12	37711	b		X	X				4398 9875
440 -13	37712	b		X	X				4397 9881
440 -14	37713	b		X	X				4398 9887
440 -15	37714	b		X	X				4402 9893
440 -16	37715	b		X	X				4398 9903
440 -17	37716	b		X	X				4399 9913
440 -18	37717	b		X	X				4399 9923
440 -19	37718	b		X	X				4403 9932
440 -20	37719	b		X	X				4398 9940
440 -21	37720	b		X	X				4400 9950
440 -22	37721	b		X	X				4395 9960
440 -23	37722	b		X	X				4389 9982
440 -24	37723	b		X	X				4399 9986
440 -25	37724	b		X	X				4402 9990
440 -26	37725	b		X	X				4403 9994
440 -27	37726	b		X	X				4402 9998
440 -28	37727	b		X	X				4402 0001
440 -29	37728	b		X	X				4398 0010
440 -30	37729	b		X	X				4404 0018
440 -31	37730	b		X	X				4402 0025
440 -32	37731	b		X	X				4402 0033
440 -33	37732	b		X	X				4401 0037
440 -34	37733	b		X	X				4406 0054
440 -35	37734	b		X	X				4401 0060

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

Outokumpu Oy
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Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
440 -36	84 - 37735	b		X	X				4398 0075
440 -37	37736	b		X	X				4402 0088
445- 1	37737	b		X	X				4447 9764
445 - 2	37738	b		X	X				4451 9781
445 - 3	37739	b		X	X				4453 9792
445 - 4	37740	b		X	X				4449 9800
445 - 5	37741	b		X	X				4446 9808
445 - 6	37742	b		X	X				4448 9815
445 - 7	37743	b		X	X				4447 9828
445 - 9	37744	b		X	X				4451 9873
445 -10	37745	b		X	X				4451 9907
445 -11	37746	b		X	X				4451 9916
445 -12	37747	b		X	X				4454 9957
445 -13	37748	b		X	X				4453 9985
445 -14	37749	b		X	X				4449 9996
445 -15	37750	b		X	X				4449 0005
445 -16	37751	b		X	X				4443 0016
445 -17	37752	b		X	X				4446 0028
445 -18	37753	b		X	X				4449 0038
445 -19	37754	b		X	X				4449 0048
445 -20	37755	b		X	X				4453 0062
445 -21	37756	b		X	X				4451 0077
445 -22	37757	b		X	X				4449 0088
450 - 3	37758	b		X	X				4521 9760
450 - 4	37759	b		X	X				4500 9770
450 - 5	37760	b							

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
450 - 5	84 - 37760	b		X	X				4500 9777
450 - 6	37761	b		X	X				4500 9785
450 - 7	37762	b		X	X				4499 9807
450 - 8	37763	b		X	X				4507 9822
450 - 9	37764	b		X	X				4500 9826
450 - 10	37765	b		X	X				4501 9839
450 - 11	37766	b		X	X				4497 9851
450 - 12	37767	b		X	X				4499 9865
450 - 13	37768	b		X	X				4497 9874
450 - 14	37769	b		X	X				4506 9902
450 - 15	37770	b		X	X				4505 9910
450 - 16	37771	b		X	X				4507 9923
450 - 17	37772	b		X	X				4503 9936
450 - 18	37773	b		X	X				4500 0015
450 - 19	37774	b		X	X				4507 0023
450 - 20	37775	b		X	X				4497 0032
455 - 1	37776	b		X	X				4548 9708
455 - 2	37777	b		X	X				4547 9735
455 - 3	37778	b		X	X				4550 9741
455 - 4	37779	b		X	X				4557 9750
455 - 5	37780	b		X	X				4550 9757
455 - 6	37781	b		X	X				4551 9765
455 - 7	37782	b		X	X				4551 9769
455 - 8	37783	b		X	X				4553 9783
455 - 9	37784	b		X	X				4550 9805

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
455 -10	84 - 37785	b		X	X				4543 9830
455 - 11	37786	b		X	X				4558 9838
455 - 12	37787	b		X	X				4549 9851
455 - 13	37788	b		X	X				4548 9862
455 - 14	37789	b		X	X				4553 9870
455 - 15	37790	b		X	X				4548 9874
455 - 16	37791	b		X	X				4551 9902
455 - 17	37792	b		X	X				4551 9908
455 - 18	37793	b		X	X				4552 9916
455 - 19	37794	b		X	X				4549 9933
455 - 20	37795	b		X	X				4549 9941
460 - 1	37796	b		X	X				4597 9681
460 - 2	37797	b		X	X				4596 9706
460 - 3	37798	b		X	X				4603 9714
460 - 4	37799	b		X	X				4599 9731
460 - 5	37800	b		X	X				4599 9742
460 - 6	37801	b		X	X				4598 9753
460 - 7	37802	b		X	X				4599 9762
460 - 8	37803	b		X	X				4597 9766
460 - 9	37804	b		X	X				4600 9713
460 - 10	37805	b		X	X				4598 9788
460 - 11	37806	b		X	X				4597 9802
460 - 12	37807	b		X	X				4598 9836
460 - 13	37808	b		X	X				4606 9853
460 - 14	37809	b		X	X				4604 9867

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
460 - 15	84 - 37810	b		X	X				4600 9876
460 - 16	37811	b		X	X				4600 9887
460 - 17	37812	b		X	X				4598 9893
270 - 1	37813	b		X	X				2701 0174
270 - 2	37814	b		X	X				2701 0166
270 - 3	37815	b		X	X				2699 0155
270 - 4	37816	b		X	X				2702 0147
270 - 5	37817	b		X	X				2701 0140
270 - 6	37818	b		X	X				2701 0126
270 - 7	37819	b		X	X				2701 0112
270 - 8	37820	b		X	X				2701 0096
270 - 9	37821	b		X	X				2701 0065
270 - 10	37822	b		X	X				2701 0056
270 - 11	37823	b		X	X				2701 0031
270 - 12	37824	b		X	X				2695 0018
270 - 13	37825	b		X	X				2696 0011
270 - 14	37826	b		X	X				2701 9997
270 - 15	37827	b		X	X				2701 9987
270 - 16	37828	b		X	X				2687 9965
270 - 17	37829	b		X	X				2702 9950
270 - 18	37830	b		X	X				2701 9943
270 - 19	37831	b		X	X				2701 9931
270 - 20	37832	b		X	X				2696 9922
270 - 21	37833	b		X	X				2704 9911
270 - 22	37834	b		X	X				2699 9904

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
270 - 23	84 - 37835	b		X	X				2699 9891
270 - 24	37836	b		X	X				2699 9884
275 - 1	37837	b		X	X				2747 9880
275 - 2	37838	b		X	X				2753 9893
275 - 3	37839	b		X	X				2741 9896
275 - 4	37840	b		X	X				2753 9910
275 - 5	37841	b		X	X				2748 9923
275 - 6	37842	b		X	X				2751 9927
275 - 7	37843	b		X	X				2750 9934
275 - 8	37844	b		X	X				2750 9948
275 - 9	37845	b		X	X				2752 9955
275 - 10	37846	b		X	X				2751 9976
275 - 11	37847	b		X	X				2751 9990
275 - 12	37848	b		X	X				2746 0000
275 - 13	37849	b		X	X				2750 0007
275 - 14	37850	b		X	X				2748 0019
275 - 15	37851	b		X	X				2757 0032
275 - 16	37852	b		X	X				2752 0037
275 - 17	37853	b		X	X				2747 0047
275 - 18	37854	b		X	X				2750 0051
275 - 19	37855	b		X	X				2753 0058
275 - 20	37856	b		X	X				2752 0076
275 - 21	37857	b		X	X				2745 0082
275 - 22	37858	b		X	X				2752 0090
275 - 23	37859	b		X	X				2752 0101

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
275 - 24	84 -37860	b		X	X				2745 0108
275 - 25	37861	b		X	X				2749 0113
275 - 26	37862	b		X	X				2750 0125
275 - 27	37863	b		X	X				2748 0141
275 - 28	37864	b		X	X				2747 0156
275 - 29	37865	b		X	X				2752 0159
275 - 30	37866	b		X	X				2754 0176
280 - 1	37867	b		X	X				2799 0198
280 - 2	37868	b		X	X				2803 0188
280 - 3	37869	b		X	X				2798 0169
280 - 4	37870	b		X	X				2799 0160
280 - 5	37871	b		X	X				2799 0144
280 - 6	37872	b		X	X				2803 0142
280 - 7	37873	b		X	X				2801 0128
280 - 8	37874	b		X	X				2800 0119
280 - 9	37875	b		X	X				2803 0111
280 - 10	37876	b		X	X				2800 0167
280 - 11	37877	b		X	X				2803 0090
280 - 12	37878	b		X	X				2795 0076
280 - 13	37879	b		X	X				2795 0067
280 - 14	37880	b		X	X				2798 0051
280 - 15	37881	b		X	X				2796 0043
280 - 16	37882	b		X	X				2798 0033
280 - 17	37883	b		X	X				2800 0025
280 - 18	37884	b		X	X				2802 0017

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
280 - 19	84 - 37885	b		X	X				2803 9994
280 - 20	37886	b		X	X				2801 9981
280 - 21	37887	b		X	X				2799 9964
280 - 22	37888	b		X	X				2803 9946
280 - 23	37889	b		X	X				2801 9937
280 - 24	37890	b		X	X				2801 9931
280 - 25	37891	b		X	X				2800 9926
280 - 26	37892	b		X	X				2801 9922
280 - 27	37893	b		X	X				2799 9910
280 - 28	37894	b		X	X				2801 9898
280 - 29	37895	b		X	X				2800 9891
280 - 30	37896	b		X	X				2802 9878
280 - 31	37897	b		X	X				2806 9862
280 - 32	37898	b		X	X		37880 - 37894 Nord-Trøndelag		2803 9852
305 - 35	37941	b		X	X				3022 0029
305 - 36	37942	b		X	X				3020 0017
305 - 37	37943	b		X	X				3026 0015
305 - 38	37944	b		X	X				3032 9999
305 - 39	37945	b		X	X				3031 9970
305 - 40	37946	b		X	X				3069 0075
305 - 41	37947	b		X	X				3071 3081 0085
305 - 42	37948	b		X	X				3066 3076 0097
315 - 42	37949	b		X	X				3164 3139 0198
315 - 43	37950	b		X	X				3171 3146 0184
315 - 44	37951	b		X	X				3173 3148 0178

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
315 - 45	84 - 37952	b		X	X				3171 ~~3146~~ 0165
315 - 46	37953	b		X	X				3168 ~~3144~~ 0149
315 - 47	37954	b		X	X				3168 ~~3143~~ 0143
315 - 48	37955	b		X	X				3169 ~~3144~~ 0027
315 - 49	37956	b		X	X				3168 ~~3143~~ 0116
380 - 47	37957	b		X	X				3788 0056
380 - 48	37958	b		X	X				3785 0052
380 - 49	37959	b		X	X				3790 0024
380 - 50	37960	b		X	X				3791 0018
380 - 51	37961	b		X	X				3792 0008
375 - 55	37962	b		X	X				3739 9985
375 - 56	37963	b		X	X				3743 9993
375 - 57	37964	b		X	X				3741 0004
375 - 58	37965	b		X	X				3746 0023
375 - 59	37966	b		X	X				3738 0029
417,5 - 1	37967	b		X	X				4177 0105
417,5 - 2	37968	b		X	X				4175 0096
417,5 - 3	37969	b		X	X				4171 0081
417,5 - 4	37970	b		X	X				4181 0071
417,5 - 5	37971	b		X	X				4179 0062
417,5 - 6	37972	b		X	X				4182 0051
417,5 - 7	37973	b		X	X				4175 0045
417,5 - 8	37974	b		X	X				4175 0034
417,5 - 9	37975	b		X	X				4175 0020
417,5 - 10	37976	b		X	X				4175 0009

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
417.5 - 11	84- 37977	b		X	X				4178 0000
390 - 49	37978	b		X	X				3924 0257
390 - 50	37979	b		X	X				3917 0252
390 - 51	37980	b		X	X				3916 0245
390 - 52	37981	b		X	X				3917 0236
390 - 53	37982	b		X	X				3902 0226
390 - 54	37983	b		X	X				3898 0209
435 - 26	37984	b		X	X				4333 9829
435 - 27	37985	b		X	X				4329 9841
435 - 28	37986	b		X	X				4330 9864
435 - 29	37987	b		X	X				4344 9891
400 - 26	37988	b		X	X				3998 0165
400 - 27	37989	b		X	X				3999 0157
400 - 28	37990	b		X	X				3992 0154
400 - 29	37991	b		X	X				3993 0145
400 - 30	37992	b		X	X				3995 0133
400 - 31	37993	b		X	X				3995 0065
400 - 32	37994	b		X	X				3997 0074
315 - 34	37995	b		X	X				3155 0107
315 - 35	37996	b		X	X				3151 0111
315 - 36	37997	b		X	X				3153 0120
315 - 38	37998	b		X	X				3144 0230
445 - 8	37999	b		X	X				4446 9845
310 - 19	38000	b		X	X				3105 0068 9948
310 - 21	38001	b		X	X				3099 0089 9889

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM. coordinates
310 - 22	84 - 38002	b		X	X				3102 0108
310 - 26	38003	b		X	X				3089 0157
310 - 30	38004	b		X	X				3100 0233
410 - 32	38005	b		x	x				4100 0148
450 - 1	38006	a?		x	x				4500 9738
450 - 2	38007	b		x	x				4500 9745
TM-29.4	38008	b/o		x	x				
TM-31.30	38009	b		x	x				
TM-33.50	38010	b		x	x				
TM-35.40	38011	b		x	x				
TM-37.40	38012	b		x	x				
TM-39.60	38013	b/o		x	x				
TM-41.50	38014	b		x	x				
TM-43.50	38015	b		x	x				
TM-45.50	38016	b/o		x	x				
TM-47.60	38017	b/o		x	x				
TM-48.60	38018	b/o		x	x				
TM-53.60	38019	b/o		x	x				
TM-57.80	38020	b/o		x	x				
ULT I	38021	ub		X					
ULT II	38022	ub		X					
478.004A	38023	a/b		X		X			478.004
478.004B	38024	a/b		x		x			478.004
501.998A	38025	a/b		X		x			501.998
501.998B	38026	a/b		x		x			501.998
501.998C	38027	a/b		x		x			501.998
565.980	38028	a/b		x		x			565.980
493.991	38029	a/b		X		x			493.991
559.976	38030	a/b		x		x			559.976
507.987	38031	b		x		x			507.987

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

Outokumpu Oy
PL 27, 02201 Espoo 20, Finland
Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
330 - 1	84-38751	b		X	X				3312 9814
330 - 2	38752	b		X	X				3304 9822
330 - 3	38753	b		X	X				3303 9832
330 - 4	38754	b		X	X				3303 9840
330 - 5	38755	b		X	X				3302 9845
330 - 6	38756	b		X	X				3300 9850
330 - 7	38757	b		X	X				3301 9857
330 - 8	38758	b		X	X				3303 9864
330 - 9	38759	b		X	X				3300 9872
330 - 10	38760	b		X	X				3300 9878
330 - 11	38761	b		X	X				3302 9884
330 - 12	38762	b		X	X				3298 9890
330 - 13	38763	b		X	X				3302 9897
330 - 14	38764	b		X	X				3297 9901
330 - 15	38765	b		X	X				3300 9908
330 - 16	38766	b		X	X				3296 9915
330 - 17	38767	b		X	X				3299 9925
330 - 18	38768	b		X	X				3301 9929
330 - 19	38769	b		X	X				3305 9933
330 - 20	38770	b		X	X				3308 9938
330 - 21	38771	b		X	X				3303 9943
330 - 22	38772	b		X	X				3300 9949
330 - 23	38773	b		X	X				3300 9953
330 - 24	38774	b		X	X				3300 9958
330 - 25	38775	b		X	X				3295 9965

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
330-26	84-38776	b		X	X				3298 9972
330-27	38777	b		X	X				3299 9975
330-28	38778	b		X	X				3303 9979
330-29	38779	b		X	X				3305 9984
330-30	38780	b		X	X				3298 9989
330-31	38781	b		X	X				3303 0006
330-32	38782	b		X	X				3307 0013
330-33	38783	b		X	X				3301 0018
330-34	38784	b		X	X				3300 0037
330-35	38785	b		X	X				3298 0044
330-36	38786	a		X	X				3299 0052
330-37	38787	a		X	X				3298 0055
330-38	38788	a		X	X				3298 0065
330-39	38789	a		X	X				3305 0074
330-40	38790	b		X	X				3305 0086
330-41	38791	b		X	X				3305 0089
330-42	38792	b		X	X				3307 0095
330-43	38793	b		X	X				3303 0098
330-44	38794	b		X	X				3300 0104
330-45	38795	a		X	X				3300 0113
330-46	38796	b		X	X				3300 0120
330-47	38797	a		X	X				3300 0128
330-48	38798	a		X	X				3302 0142
330-49	38799	b		X	X				3297 0146
330-50	38800	b		X	X				3303 0156

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
330-51	84-38801	b		X	X				3296 0162
330-52	38802	a		X	X				3300 0172
330-53	38803	b		X	X				3300 0186
330-54	38804	b		X	X				3305 0196
330-55	38805	b		X	X				3304 0201
330-56	38806	b		X	X				3300 0210
330-57	38807	b		X	X				3315 0230
330-58	38808	b		X	X				3316 0239
330-59	38809	b		X	X				3312 0247
330-60	38810	b		X	X				3307 0251
330-61	38811	b		X	X				3304 0254
330-62	38812	b		X	X				3302 0258
330-63	38813	b		X	X				3299 0263
330-64	38814	b		X	X				3300 0268
330-65	38815	b		X	X				3301 0273
330-66	38816	b		X	X				No sample
335-1	38817	b		X	X				3350 9830
335-2	38818	b		X	X				3353 9836
335-3	38819	b		X	X				3353 9841
335-4	38820	b		X	X				3350 9846
335-5	38821	b		X	X				3347 9849
335-6	38822	b		X	X				3352 9854
335-7	38823	b		X	X				3350 9859
335-8	38824	b		X	X				3352 9863
335-9	38825	b		X	X				3348 9869

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
335-10	84-38826	b		X	X				3350 9875
335-11	38827	b		X	X				3350 9879
335-12	38828	b		X	X				3350 9888
335-13	38829	b		X	X				3354 9892
335-14	38830	b		X	X				3350 9899
335-15	38831	b		X	X				3346 9906
335-16	38832	b		X	X				3349 9908
335-17	38833	b		X	X				3352 9920
335-18	38834	b		X	X				3350 9924
335-19	38835	b		X	X				3348 9928
335-20	38836	b		X	X				3350 9931
335-21	38837	b		X	X				3352 9943
335-22	38838	b		X	X				3352 9949
335-23	38839	b		X	X				3352 9954
335-24	38840	b		X	X				3347 9959
335-25	38841	b		X	X				3348 9963
335-26	38842	b		X	X				3346 9968
335-27	38843	b		X	X				3351 9974
335-28	38844	b		X	X				3350 9980
335-29	38845	b		X	X				3352 9988
335-30	38846	b		X	X				3351 9992
335-31	38847	b		X	X				3350 9998
335-32	38848	b		X	X				3353 0020
335-33	38849	b		X	X				3349 0026
335-34	38850	b		X	X				3354 0030

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
335-35	84-38851	b		X	X				3343 0042
335-36	38852	b		X	X				3350 0053
335-37	38853	b		X	X				3347 0060
335-38	38854	a		X	X				3351 0066
335-39	38855	a		X	X				3350 0074
335-40	38856	b		X	X				3352 0079
335-41	38857	b		X	X				3352 0085
335-42	38858	b		X	X				3348 0089
335-43	38859	b		X	X				3355 0096
335-44	38860	b		X	X				3357 0106
335-45	38861	b		X	X				3351 0112
335-46	38862	b		X	X				3344 0118
335-47	38863	b		X	X				3349 0124
335-48	38864	b		X	X				3350 0129
335-49	38865	b		X	X				3347 0137
335-50	38866	b		X	X				3353 0140
335-51	38867	b		X	X				3350 0146
335-52	38868	a		X	X				3351 0152
335-53	38869	b		X	X				3352 0159
335-54	38870	a		X	X				3353 0162
335-55	38871	b		X	X				3346 0187
335-56	38872	b		X	X				3354 0186
335-57	38873	b		X	X				3351 0195
335-58	38874	b		X	X				3350 0199
335-59	38875	b		X	X				3342 0202

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM
335-60	84-38876	b		X	X				3333 0207
335-61	38877	b		X	X				3351 0215
335-62	38878	b		X	X				3348 0219
335-63	38879	b		X	X				3349 0223
335-64	38880	b		X	X				3358 0233
335-65	38881	b		X	X				3353 0239
335-66	38882	b		X	X				3352 0244
335-67	38883	b		X	X				3349 0248
335-68	38884	b		X	X				3350 0258
335-69	38885	b		X	X				3350 0266
335-70	38886	b		X	X				3350 0273
340-1	38887	b		X	X				3379 9818
340-2	38888	b		X	X				3383 9825
340-3	38889	b		X	X				3383 9830
340-4	38890	b		X	X				3385 9842
340-5	38891	b		X	X				3393 9846
340-6	38892	b		X	X				3380 9855
340-7	38893	b		X	X				3383 9859
340-8	38894	b		X	X				3385 9869
340-9	38895	b		X	X				3388 9871
340-10	38896	b		X	X				3394 9881
340-11	38897	b		X	X				3393 9888
340-12	38898	b		X	X				3399 9900
340-13	38899	b		X	X				3412 9906
340-14	38900	b		X	X				3397 9913

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
340-15	84-38901	b		X	X				3394 9929
340-16	38902	b		X	X				3407 9935
340-17	38903	b		X	X				3400 9944
340-18	38904	b		X	X				3402 9979
340-19	38905	b		X	X				3400 9984
340-20	38906	b		X	X				3400 9989
340-21	38907	b		X	X				3400 9993
340-22	38908	b		X	X				3395 0002
340-23	38909	a		X	X				3400 0006
340-24	38910	a		X	X				3400 0014
340-25	38911	a		X	X				3400 0018
340-26	38912	a		X	X				3400 0025
340-27	38913	b		X	X				3389 0044
340-28	38914	b		X	X				3394 0050
340-29	38915	b		X	X				3397 0061
340-30	38916	a		X	X				3391 0076
340-31	38917	b		X	X				3392 0084
340-32	38918	b		X	X				3390 0091
340-33	38919	b		X	X				3393 0104
340-34	38920	a		X	X				3395 0115
340-35	38921	b		X	X				3401 0138
340-36	38922	b		X	X				3389 0146
340-37	38923	b		X	X				3391 0164
340-38	38924	b		X	X				3396 0171
340-39	38925	b		X	X				3389 0176

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
340-40	84-38926	b		X	X				3398 0186
340-41	38927	b		X	X				3399 0191
340-42	38928	b		X	X				3400 0193
340-43	38929	b		X	X				3400 0197
340-44	38930	b		X	X				3402 0205
340-45	38931	a		X	X				3402 0208
340-46	38932	b		X	X				3402 0212
340-47	38933	b		X	X				3402 0216
340-48	38934	b		X	X				3401 0223
340-49	38935	b		X	X				3401 0229
340-50	38936	b		X	X				3401 0235
340-51	38937	b		X	X				3402 0243
340-52	38938	b		X	X				3403 0255
340-53	38939	b		X	X				3400 0263
340-54	38940	b		X	X				3403 0267
345-1	38941	b		X	X				3447 9835
345-2	38942	b		X	X				3446 9840
345-3	38943	b		X	X				3442 9845
345-4	38944	b		X	X				3450 9854
345-5	38945	b		X	X				3451 9860
345-6	38946	b		X	X				3448 9873
345-7	38947	b		X	X				3449 9878
345-8	38948	b		X	X				3447 9881
345-9	38949	b		X	X				3455 9886
345-10	38950	b		X	X				3450 9904

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
345 - 11	84-38951	b		X	X				3454 9909
345 - 12	38952	b		X	X				3447 9912
345 - 13	38953	a		X	X				3455 9932
345 - 14	38954	a		X	X				3454 9937
345 - 15	38955	a		X	X				3451 9939
345 - 16	38956	b		X	X				3471 9976
345 - 17	38957	b		X	X				3464 9981
345 - 18	38958	b		X	X				3467 0002
345 - 19	38959	b		X	X				3469 0010
345 - 20	38960	b		X	X				3459 0025
345 - 21	38961	b		X	X				3475 0033
345 - 22	38962	b		X	X				3468 0045
345 - 23	38963	b		X	X				3453 0053
345 - 24	38964	b		X	X				3452 0077
345 - 25	38965	b/o		X	X				3447 0085
345 - 26	38966	b		X	X				3450 0089
345 - 27	38967	b		X	X				3449 0095
345 - 28	38968	b		X	X				3443 0102
345 - 29	38969	b		X	X				3456 0110
345 - 30	38970	b		X	X				3452 0115
345 - 31	38971	a		X	X				3454 0121
345 - 32	38972	a		X	X				3452 0127
345 - 33	38973	b?		X	X				3451 0135
345 - 34	38974	a		X	X				3451 0143
345 - 35	38975	a?		X	X				3451 0148

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
345-36	84-38976	a		X	X				3448 0151
345-37	38977	a		X	X				3454 0160
345-38	38978	b		X	X				3455 0176
345-39	38979	b		X	X				3457 0182
345-40	38980	b		X	X				3447 0194
345-41	38981	b		X	X				3448 0198
345-42	38982	b		X	X				3448 0204
345-43	38983	b		X	X				3453 0214
345-44	38984	b		X	X				3452 0216
345-45	38985	b		X	X				3454 0224
345-46	38986	b		X	X				3451 0228
345-47	38987	b		X	X				3450 0233
345-48	38988	b		X	X				3449 0254
345-49	38989	b		X	X				3451 0268
345-50	38990	b		X	X				3447 0275
350-1	38991	b		X	X				3490 9886
350-2	38992	b		X	X				3496 9892
350-3	38993	b		X	X				3500 9902
350-4	38994	b		X	X				3499 9909
350-5	38995	b		X	X				3492 9911
350-6	38996	b		X	X				3506 9919
350-7	38997	b		X	X				3507 9925
350-8	38998	b		X	X				3500 9933
350-9	38999	a		X	X				3493 9951
350-10	39000	a		X	X				3501 9960
	39001 - 39025 er								

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

Outokumpu Oy
PL 27, 02201 Espoo 20, Finland
Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
TY/M6-76	84-39001	b		X	X				Pulverized
R10-77	39002	b		X	X				"
LØ/M9-76	39003	b/o		X	X				"
LØ10-76	39004	b		X	X				"
LØ2-77	39005	a		X	X				"
LØ3-77	39006	b		X	X				"
LØ4-77	39007	b		X	X				"
HØ104-79	39008	b/o		X	X				"
HØ44-79	39009	b		X	X				"
HØ52-79	39010	b		X	X				"
HØ75-79	39011	b/o		X	X				"
HØ93-79	39012	b		X	X				"
HØ96-79	39013	b		X	X				"
VF7-77	39014	a		X	X				"
VF12-77	39015	b		X	X				"
VF13-77	39016	b		X	X				"
VF17-77	39017	b		X	X				"
VF19-77	39018	b		X	X				"
VF21-77	39019	b		X	X				"
VF22-77	39020	b		X	X				"
VF23-77	39021	b		X	X				"
VF24-77	39022	b/o		X	X				"
VF27-77	39023	b/o		X	X				"
VF28-77	39024	b/o		X	X				"
VF33-77	39025	b		X	X				"

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
350-11	84-39026	b		X	X				3501 9973
350-12	39027	b		X	X				3500 9978
350-13	39028	b		X	X				3495 9987
350-14	39029	b		X	X				3502 9992
350-15	39030	b		X	X				3500 0000
350-16	39031	b		X	X				3502 0004
350-17	39032	b		X	X				3502 0011
350-18	39033	b		X	X				3497 0015
350-19	39034	b		X	X				3500 0021
350-20	39035	b		X	X				3500 0025
350-21	39036	b		X	X				3500 0032
350-22	39037	b		X	X				3500 0039
350-23	39038	b		X	X				3500 0049
350-24	39039	b		X	X				3500 0057
350-25	39040	b		X	X				3491 0066
350-26	39041	b		X	X				3494 0071
350-27	39042	b		X	X				3497 0078
350-28	39043	b		X	X				3497 0082
350-29	39044	b		X	X				3507 0091
350-30	39045	b		X	X				3505 0100
350-31	39046	b		X	X				3497 0106
350-32	39047	b		X	X				3496 0114
350-33	39048	b		X	X				3497 0124
350-34	39049	b		X	X				3500 0127
350-35	39050	b		X	X				3498 0142

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
350-36	84-39051	b		X	X				3499 0146
350-37	39052	b		X	X				3502 0149
350-38	39053	b		X	X				3496 0164
350-39	39054	b		X	X				3501 0178
350-40	39055	b		X	X				3501 0181
350-41	39056	b		X	X				3509 0187
350-42	39057	b		X	X				3503 0212
350-43	39058	b		X	X				3502 0218
350-44	39059	b		X	X				3498 0223
350-45	39060	b		X	X				3498 0230
350-46	39061	b		X	X				3499 0235
350-47	39062	b		X	X				3498 0239
350-48	39063	b		X	X				3502 0255
350-49	39064	b		X	X				3502 0258
350-50	39065	b		X	X				3501 0268
350-51	39066	b		X	X				3500 0276
345-51	39067	b		X	X				3460 9995
345-52	39068	b		X	X				3466 0014
345-53	39069	b		X	X				3458 0018
345-54	39070	b		X	X				3455 0065
345-55	39071	b		X	X				3455 0069
345-56	39072	b		X	X				3455 0075
345-57	39073	b		X	X				3454 0083
325-01	39074	b		X					3252 9794
325-02	39075	b		X	X				3249 9839

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
325-03	84-39076	b		x	x				3248 9843
325-04	39077	b		x	x				3248 9850
325-05	39078	b		x	x				3247 9856
325-06	39079	b		x	x				3248 9863
325-07	39080	b		x	x				3251 9870
325-08	39081	b		x	x				3249 9887
325-09	39082	b		x	x				3252 9885
325-10	39083	b		x	x				3243 9907
325-11	39084	b		x	x				3248 9910
325-12	39085	b		x	x				3247 9918
325-13	39086	b		x	x				3249 9923
325-14	39087	b		x	x				3248 9927
325-15	39088	b		x	x				3249 9932
325-16	39089	b		x	x				3251 9938
325-17	39090	b		x	x				3249 9943
325-18	39091	b		x	x				3252 9947
325-19	39092	b		x	x				3252 9952
325-20	39093	b		x	x				3256 9959
325-21	39094	b		x	x				3265 9968
325-22	39095	b		x	x				3255 9972
325-23	39096	b		x	x				3253 9978
325-24	39097	b		x	x				3250 9982
325-25	39098	b		x	x				3245 9990
325-26	39099	b		x	x				3250 9996
325-27	39100	b		x	x				3251 0002

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
325 - 28	84-39101	b		x	x				3251 0017
325 - 29	39102	b		x	x				3250 0024
325 - 30	39103	b		x	x				3248 0030
325 - 31	39104	b		x	x				3246 0036
325 - 32	39105	b		x	x				3247 0042
325 - 33	39106	b		x	x				3247 0049
325 - 34	39107	b		x	x				3250 0054
325 - 35	39108	b		x	x				3252 0065
325 - 36	39109	b		x	x				3255 0069
325 - 37	39110	b		x	x				3258 0074
325 - 38	39111	b		x	x				3252 0106
325 - 39	39112	b		x	x				3249 0119
325 - 40	39113	b		x	x				3250 0126
325 - 41	39114	b		x	x				3253 0159
320 - 01	39115	b		x	x				3211 9802
320 - 02	39116	b		x	x				3204 9816
320 - 03	39117	b		x	x				3191 9822
320 - 04	39118	b		x	x				3198 9832
320 - 05	39119	b		x	x				3210 9862
320 - 06	39120	b		x	x				3218 9866
320 - 07	39121	b		x	x				3214 9872
320 - 08	39122	b		x	x				3212 9878
320 - 09	39123	b		x	x				3211 9884
320 - 10	39124	b		x	x				3202 9890
320 - 11	39125	b		x	x				3200 9897

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
320-12	84-39126	b		x	x				3204 9899
320-13	39127	b		x	x				3205 9907
320-14	39128	b		x	x				3206 9912
320-15	39129	b		x	x				3211 9918
320-16	39130	b		x	x				3211 9926
320-17	39131	b		x	x				3213 9932
320-18	39132	b		x	x				3207 9937
320-19	39133	b		x	x				3198 9944
320-20	39134	b		x	x				3206 9952
320-21	39135	b		x	x				3197 9984
320-22	39136	b		x	x				3193 9995
320-23	39137	b		x	x				3198 0001
320-24	39138	b		x	x				3199 0006
320-25	39139	b		x	x				3200 0009
320-26	39140	b		x	x				3206 0015
320-27	39141	b		x	x				3204 0031
320-28	39142	b		x	x				3198 0039
320-29	39143	b		x	x				3200 0045
320-30	39144	b		x	x				3201 0051
355-01	39145	b		x	x				3553 9895
355-02	39146	b		x	x				3554 9902
355-03	39147	b		x	x				3561 9912
355-04	39148	b		x	x				3547 0015
355-05	39149	b		x	x				3545 0022
355-06	39150	b		x	x				3547 0028

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
355-07	84-39151	b		X	X				3545 0038
355-08	39152	b		X	X				3544 0044
355-09	39153	b		X	X				3530 0050
355-10	39154	b		X	X				3563 0088
355-11	39155	b		X	X				3558 0090
355-12	39156	b		X	X				3556 0097
355-13	39157	b		X	X				3553 0109
355-14	39158	b		X	X				3553 0115
355-15	39159	b		X	X				3552 0120
355-16	39160	b		X	X				3551 0132
355-17	39161	b		X	X				3550 0138
355-18	39162	b		X	X				3557 0187
355-19	39163	b		X	X				3555 0193
355-20	39164	b		X	X				3561 0198
355-21	39165	b		X	X				3564 0203
355-22	39166	b		X	X				3555 0229
355-23	39167	b		X	X				3543 0235
355-24	39168	b		X	X				3547 0241
355-25	39169	b		X	X				3567 0265
355-26	39170	b		X	X				3554 0268
355-27	39171	b		X	X				3557 0272
355-28	39172	b		X	X				3554 0278
360-01	39173	b		X	X				3600 9885
360-02	39174	b		X	X				3601 9888
360-03	39175	b		X	X				3602 9891

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
360-04	84-39176	b		X	X				3600 9896
360-05	39177	b		X	X				3601 9902
360-06	39178	b		X	X				3601 9908
360-07	39179	b		X	X				3601 9914
360-08	39180	b		X	X				3606 9919
360-09	39181	b		X	X				3602 9927
360-10	39182	b		X	X				3602 9933
360-11	39183	b		X	X				3604 9939
360-12	39184	b		X	X				3601 9956
360-13	39185	b		X	X				3603 9960
360-14	39186	b		X	X				3601 9965
360-15	39187	b		X	X				3602 9970
360-16	39188	b		X	X				3601 9978
360-17	39189	b		X	X				3603 9981
360-18	39190	b		X	X				3603 9984
360-19	39191	b		X	X				3598 9995
360-20	39192	b		X	X				3598 9999
360-21	39193	b		X	X				3600 0004
360-22	39194	b		X	X				3601 0009
360-23	39195	b		X	X				3602 0013
360-24	39196	b		X	X				3604 0018
360-25	39197	b		X	X				3603 0023
360-26	39198	b		X	X				3604 0029
360-27	39199	b		X	X				3606 0038
360-28	39200	b		X	X				3607 0045

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
360 - 29	84-39 201	b		X	X				3608 0052
- 30	202	b		X	X				3596 0057
- 31	203	b		X	X				3598 0068
- 32	204	b		X	X				3598 0072
- 33	205	b		X	X				3597 0082
- 34	206	b		X	X				3596 0092
- 35	207	b		X	X				3598 0101
- 36	208	b		X	X				3601 0111
- 37	209	b		X	X				3601 0118
- 38	210	b		X	X				3600 0125
- 39	211	b		X	X				3601 0132
- 40	212	b		X	X				3605 0140
- 41	213	b		X	X				3605 0146
- 42	214	b		X	X				3603 0156 ~~0147~~
- 43	215	b		X	X				3617 0163 ~~0154~~
- 44	216	b		X	X				3620 0172 ~~0163~~
- 45	217	b		X	X				3621 0182 ~~0173~~
- 46	218	b		X	X				3644 0197
- 47	219	b		X	X				3631 0209
- 48	220	b		X	X				3632 0220
- 49	221	b		X	X				3632 0227
- 50	222	b		X	X				3632 0234
- 51	223	b		X	X				3630 0247
- 52	224	b		X	X				3630 0256
360 - 53	39 225	b		X	X				3625 0264

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

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XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
360 -54	84-39226	b		X	X				3625 0277
365 - 01	227	b		X	X				3650 9855
- 02	228	b		X	X				3648 9868
- 03	229	b		X	X				3652 9875
- 04	230	b		X	X				3649 9885
- 05	231	b		X	X				3650 9890
- 06	232	b		X	X				3651 9906
- 07	233	b		X	X				3649 9917
- 08	234	b		X	X				3647 9921
- 09	235	b		X	X				3650 9862
- 10	236	b		X	X				3650 9930
- 11	237	b		X	X				3650 9937
- 12	238	b		X	X				3650 9942
- 13	239	b		X	X				3651 9949
- 14	240	b		X	X				3652 9954
- 15	241	b		X	X				3649 9970
- 16	242	b		X	X				3650 9975
- 17	243	b		X	X				3649 9980
- 18	244	b		X	X				3650 9983
- 19	245	b		X	X				3649 9990
- 20	246	b		X	X				3649 9995
- 21	247	b		X	X				3649 0001
- 22	248	b		X	X				3651 0005
- 23	249	b		X	X				3650 0010
365 - 24	39250	b		X	X				3651 0013

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
365-25	84-39 251	b		x	x				3651 0020
-26	252	b		x	x				3650 0034
-27	253	b		x	x				3650 0039
-28	254	b		x	x				3650 0043
-29	255	b		x	x				3652 0054
-30	256	b		x	x				3651 0059
-31	257	b		x	x				3650 0063
-32	258	b		x	x				3650 0068
-33	259	b		x	x				3651 0074
-34	260	b		x	x				3651 0081
-35	261	b		x	x				3655 0101
-36	262	b		x	x				3658 0111
-37	263	b		x	x				3659 0116
-38	264	b		x	x				3658 0124
-39	265	b		x	x				3662 0129
-40	266	b		x	x				3655 0133
-41	267	b		x	x				3650 0138
-42	268	b		x	x				3649 0143
-43	269	b		x	x				3651 0146
-44	270	b		x	x				3650 0158
-45	271	b		x	x				3653 0164
-46	272	b		x	x				3651 0168
-47	273	b		x	x				3650 0172
-48	274	b		x	x				3651 0182
365-49	39 275	b		x	x				3651 0189

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

Outokumpu Oy
PL 27, 02201 Espoo 20, Finland
Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
365 - 50	84-39276	b		x	x				3651 0193
- 51	277	b		x	x				3651 0198
- 52	278	b		x	x				3651 0204
- 53	279	b		x	x				3651 0208
- 54	280	b		x	x				3649 0213
- 55	281	b		x	x				3650 0217
- 56	282	b		x	x				3655 0221
- 57	283	b		x	x				3651 0227
- 58	284	b		x	x				3650 0236
- 59	285	b		x	x				3649 0241
- 60	286	b		x	x				3649 9959
- 61	287	b		x	x				3650 0025
365 - 62	288	b		x	x				3652 0047
370 - 1	289	b		x	x				3703 9851
370 - 2	290	b		x	x				3703 9861
370 - 3	291	b		x	x				3699 9866
370 - 4	292	b		x	x				3700 9873
370 - 5	293	b		x	x				3698 9880
370 - 6	294	b		x	x				3699 9889
370 - 7	295	b		x	x				3704 9896
370 - 8	296	b		x	x				3700 9907
370 - 9	297	b		x	x				3704 9928
370 - 10	298	b		x	x				3695 9932
370 - 11	299	b		x	x				3689 9942
370 - 12	39 300	b		x	x				3699 9949

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
370-13	84-39301	b		X	X				3699 9956
370-14	39302	b		X	X				3699 9965
370-15	39303	b		X	X				3700 9971
370-16	39304	b		X	X				3701 9978
370-17	39305	b		X	X				3701 9983
370-18	39306	b		X	X				3700 9994
370-19	39307	b		X	X				3700 0001
370-20	39308	b		X	X				3700 0010
370-21	39309	b		X	X				3702 0017
370-22	39310	b		X	X				3701 0023
370-23	39311	b		X	X				3697 0033
370-24	39312	b		X	X				3701 0042
370-25	39313	b		X	X				3706 0054
370-26	39314	b		X	X				3701 0063
370-27	39315	b		X	X				3699 0069
370-28	39316	b		X	X				3704 0075
370-29	39317	b		X	X				3706 0079
370-30	39318	b		X	X				3700 0107
370-31	39319	b		X	X				3696 0111
370-32	39320	b		X	X				3699 0119
370-34	39321	b		X	X				3698 0132
370-35	39322	b		X	X				3698 0137
370-36	39323	b		X	X				3699 0143
370-37	39324	b		X	X				3696 0148
370-38	39325	b		X	X				3707 0151

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
370- 39	84-39326	b		X	X				3710 - 0156
370- 40	39327	b		X	X				3710 0162
370- 41	39328	b		X	X				3709 0167
370- 42	39329	b		X	X				3701 0171
370- 43	39330	b		X	X				3700 0177
370- 44	39331	b		X	X				3696 0185
370- 45	39332	b		X	X				3691 0189
370- 46	39333	b		X	X				3690 0201
370- 47	39334	b		X	X				3687 0207
370- 46	39335	b		X	X				3707 0202
370- 49	39336	b		X	X				3701 0220
370- 50	39337	b		X	X				3700 0223
370- 51	39338	b		X	X				3699 0226
370- 52	39339	b		X	X				3703 0231
370- 53	39340	b		X	X				3701 0237
370- 54	39341	b		X	X				3701 0246
370- 55	39342	b		X	X				3700 0251
370- 56	39343	b		X	X				3706 0261
370- 57	39344	b		X	X				3704 0266
370 - 58	39345	b		X	X				3700 0278
375 - 1	39346	b		X	X				3750 9839
375 - 2	39347	b		X	X				3745 9844
375 - 3	39348	b		X	X				3753 9849
375 - 4	39349	b		X	X				3727 9855
375 - 5	39350	b		Y	X				3757 9860

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
375 - 6	84-39351	b		X	X				3759 9867
375 - 7	39352	b		X	X				3756 9874
375 - 8	39353	b		X	X				3745 9887
375 - 10	39354	b		X	X				3758 9961
375 - 11	39355	b		X	X				3756 9911
375 - 12	39356	b		X	X				3750 9915
375 - 13	39357	b		X	X				3759 9920
375 - 14	39358	b		X	X				3753 9927
375 - 15	39359	b		X	X				3747 9934
375 - 16	39360	b		X	X				3750 9939
375 - 17	39361	b		X	X				3748 9944
375 - 18	39362	b		X	X				3749 9950
375 - 19	39363	b		X	X				3751 9955
375 - 20	39364	b		X	X				3749 9960
375 - 21	39365	b		X	X				3751 9966
375 - 22	39366	b		X	X				3750 9971
375 - 23	39367	b		X	X				3750 9975
375 - 24	39368	b		X	X				3750 9979
375 - 25	39369	b		X	X				3750 9982
375 - 26	39370	b		X	X				3750 9987
375 - 27	39371	b		X	X				3750 9992
375 - 28	39372	b		X	X				3749 9996
375 - 29	39373	b		X	X				3750 0001
375 - 30	39374	b		X	X				3750 0005
375 - 31	39375	b		X	X				3742 0036

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
375 - 32	84-39376	b		X	X				3738 0045
375 - 33	39377	b		X	X				3746 0055
375 - 34	39378	b		X	X				3749 0062
375 - 35	39379	b		X	X				3749 0067
375 - 36	39380	b		X	X				3752 0079
375 - 37	39381	b		X	X				3747 0088
375 - 38	39382	b		X	X				3750 0102
375 - 39	39383	b		X	X				3750 0109
375 - 40	39384	b		X	X				3750 0114
375 - 41	39385	b		X	X				3756 0125
375 - 42	39386	b		X	X				3752 0133
375 - 43	39387	b		X	X				3750 0138
375 - 44	39388	b		X	X				3752 0147
375 - 45	39389	b		X	X				3756 0174
375 - 46	39390	b		X	X				3750 0179
375 - 47	39391	b		X	X				3750 0183
375 - 48	39392	b		X	X				3746 0188
375 - 49	39393	b		X	X				3741 0193
375 - 50	39394	b		X	X				3753 0216
375 - 51	39395	b		X	X				3749 0222
375 - 52	39396	b		X	X				3740 0247
375 - 53	39397	b		X	X				3752 0254
375 - 54	39398	b		X	X				3748 0260
380 - 1	39399	b		X	X				3800 9831
380 - 2	39400	b		X	X				3798 9840

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
380-3	84-39401	b		X	X				3796 9850
380-4	39402	b		X	X				3796 9855
380-5	39403	b		X	X				3797 9863
380-6	39404	b		X	X				3795 9878
380-7	39405	b		X	X				3794 9880
380-8	39406	b		X	X				3789 9888
380-9	39407	b		X	X				3796 9903
380-10	39408	b		X	X				3800 9908
380-11	39409	b		X	X				3802 9914
380-12	39410	b		X	X				3804 9917
380-13	39411	b		X	X				3803 9922
380-14	39412	b		X	X				3805 9927
380-15	39413	b		X	X				3805 9933
380-16	39414	b		X	X				3804 9940
380-17	39415	b		X	X				3801 9944
380-18	39416	b		X	X				3802 9949
380-19	39417	b		X	X				3802 9951
380-20	39418	b		X	X				3805 9967
380-21	39419	b		X	X				3798 9967
380-22	39420	b		X	X				3799 9976
380-23	39421	b		X	X				3805 9981
380-24	39422	b		X	X				3805 9985
380-25	39423	b		X	X				3807 9986
380-26	39424	b		X	X				3806 9992
380-27	39425	b		X	X				3801 9995

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
380-28	84-39426	b		X	X				3800 9999
380-29	39427	b		X	X				3800 0003
380-30	39428	b		X	X				3804 0008
380-31	39429	b		X	X				3807 0016
380-32	39430	b		X	X				3801 0058
380-34	39431	b		X	X				3800 0101
380-35	39432	b		X	X				3798 0125
380-36	39433	b		X	X				3811 0155
380-37	39434	b		X	X				3806 0183
380-38	39435	b		X	X				3814 0188
380-39	39436	b		X	X				3800 0195
380-40	39437	b		X	X				3800 0232
380-41	39438	b		X	X				3802 0235
380-42	39439	b		X	X				3803 0241
380-43	39440	b		X	X				3803 0251
380-44	39441	b		X	X				3805 0256
380-45	39442	b		X	X				3801 0261
380-46	39443	b		X	X				3801 0273
385-1	39444	b		X	X				3850 9836
385-2	39445	b		X	X				3850 9841
385-3	39446	b		X	X				3850 9845
385-4	39447	b		X	X				3847 9854
385-5	39448	b		X	X				3847 9865
385-6	39449	b		X	X				3850 9870
385-7	39450	b		X	X				3851 ~~9873~~ 9879

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
385- 8	84-39451	b		X	X				3849 9886
385- 9	39452	b		X	X				3849 9890 ~~9864~~
385- 10	39453	b		X	X				3850 9894 ~~9857~~
385- 11	39454	b		X	X				3851 9902
385- 12	39455	b		X	X				3850 9909
385- 13	39456	b		X	X				3850 9914
385- 14	39457	b		X	X				3849 9924
385- 15	39458	b		X	X				3848 9931
385- 16	39459	b		X	X				3856 9939
385- 17	39460	b		X	X				3846 9948
385- 18	39461	b		X	X				3850 9953
385- 19	39462	b		X	X				3850 9959
385- 20	39463	b		X	X				3850 9966
385- 21	39464	b		X	X				3849 9972
385- 22	39465	b		X	X				3848 9978
385- 23	39466	b		X	X				3849 9982
385- 24	39467	b		X	X				3849 9986
385- 25	39468	b		X	X				3849 9987
385- 26	39469	b		X	X				3849 9989
385- 27	39470	b		X	X				3850 0004
385- 28	39471	b		X	X				3847 0012
385- 29	39472	b		X	X				3848 0017
385- 30	39473	b		X	X				3849 0023 ~~9918~~
385- 31	39474	b		X	X				3849 0031 ~~9916~~
385- 32	39475	b		X	X				3848 0074 ~~9968~~

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
385-33	84-39476	b		X	X				3854 0090 ~~3914 0086~~
385-34	39477	b		X	X				3850 0099
385-35	39478	b		X	X				3851 0110
385-36	39479	b		X	X				3851 0118
385-37	39480	b		X	X				3851 0123
385-38	39481	b		X	X				3850 0128
385-39	39482	b		X	X				3850 0132
385-40	39483	b		X	X				3850 0137
385-41	39484	b		X	X				3850 0142
385-42	39485	b		X	X				3852 0148
385-43	39486	b		X	X				3846 0151
385-44	39487	b		X	X				3845 0161
385-45	39488	b		X	X				3850 0165
385-46	39489	b		X	X				3850 0171
385-47	39490	b		X	X				3749 0177
385-48	39491	b		X	X				3850 0182
385-49	39492	b		X	X				3851 0188
385-50	39493	b		X	X				3850 0196
385-51	39494	b		X	X				3849 0202
385-52	39495	b		X	X				3853 0207
385-53	39496	b		X	X				3854 0214
385-54	39497	b		X	X				3849 0236
385-55	39498	b		X	X				3849 0247
385-56	39499	b		X	X				3850 0258
385-57	39500	b		X	X				3850 0268

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
390- 1	84-39501	b		X	X				3894 9859
390- 2	39502	b		X	X				3894 9864
390- 3	39503	b		X	X				3896 9869
390- 4	39504	b		X	X				3894 9875
390- 5	39505	b		X	X				3898 9881
390- 6	39506	b		X	X				3900 9888
390- 7	39507	b		X	X				3899 9895
390- 8	39508	b		X	X				3898 9900
390- 9	39509	b		X	X				3898 9907
390- 10	39510	b		X	X				3899 9915
390- 11	39511	b		X	X				3899 9919
390- 12	39512	b		X	X				3896 9925
390- 13	39513	b		X	X				3895 9931
390- 14	39514	b		X	X				3901 9938
390- 15	39515	b		X	X				3905 9945
390- 16	39516	b		X	X				3905 9951
390- 17	39517	b		X	X				3904 9961
390- 18	39518	b		X	X				3904 9965
390- 19	39519	b		X	X				3904 9971
390- 20	39520	b		X	X				3903 9976
390- 21	39521	b		X	X				3900 9979
390- 22	39522	b		X	X				3895 9984
390- 23	39523	b		X	X				3888 0007
390- 25	39524	b		X	X				3900 0010
390- 26	39525	b		X	X				3901 0017

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

Outokumpu Oy
PL 27, 02201 Espoo 20, Finland
Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
390 - 27	84- 39526	b		X	X				3900 0053
390- 29	39527	b		X	X				3899 0063
390 - 30	39528	b		X	X				3902 0071
390 - 31	39529	b		X	X				3905 0076
390 - 32	39530	b		X	X				3900 0086
390 - 33	39531	b		X	X				3899 0091
390 - 34	39532	b		X	X				3904 0122
390 - 35	39533	b		X	X				3899 0127
390 - 36	39534	b		X	X				3899 0132
390 - 37	39535	b ?		X	X				3901 0148
390 - 38	39536	b		X	X				3899 0156
390 - 39	39537	b		X	X				3900 0169
390 - 40	39538	b		X	X				3899 0179
390 - 41	39539	b		X	X				3899 0184
390 - 42	39540	b		X	X				3899 0193
390 - 43	39541	b		X	X				3898 0201
390 - 44	39542	b		X	X				3899 0232
390 - 45	39543	b		X	X				3899 0242
390 - 46	39544	b		X	X				3899 0253
390 - 47	39545	b		X	X				3898 0265
390 - 48	39546	b		X	X				3901 0280
395 - 1	39547	a		X	X				3948 9856
395 - 2	39548	b		X	X				3948 9863
395 - 3	39549	b		X	X				3948 9873
395 - 4	39550	b		X	X				3950 9878

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
395-5	84-39551	b		X	X				3948 9883
395-6	84-39552	b		X	X				3950 9888
395-7	84-39553	b		X	X				3951 9892
395-8	84-39554	b		X	X				3953 9895
395-9	84-39555	b		X	X				3952 9900
395-10	84-39556	b		X	X				3945 9912
395-11	84-39557	b		X	X				3938 9929
395-12	84-39558	b		X	X				3934 9938
395-13	84-39559	b		X	X				3934 9943
395-14	84-39560	b		X	X				3931 9947
395-15	84-39561	b		X	X				3933 9953
395-16	84-39562	b		X	X				3932 9958
395-17	84-39563	b		X	X				3935 9985
395-18	84-39564	b		X	X				3934 9994
395-19	84-39565	b		X	X				3935 9990
395-20	84-39566	b		X	X				3949 0000
395-21	84-39567	b		X	X				3950 0028
395-22	84-39568	b		X	X				3950 0033
395-23	84-39569	b		X	X				3948 0042
395-24	84-39570	b		X	X				3943 0068
395-25	84-39571	b		X	X				3943 0071 NO sample
395-26	84-39572	b		X	X				3944 0074
395-27	84-39573	b		X	X				3946 0081
395-28	84-39574	b		X	X				3949 0089
395-29	84-39575	b		X	X				3949 0105

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
395-30	84-39576	b		X	X				3945 0111
395-31	84-39577	b		X	X				3948 0119
395-32	84-39578	b		X	X				3949 0124
395-33	84-39579	b		X	X				3950 0134
395-34	84-39580	b		X	X				3955 0143
395-35	84-39581	b		X	X				3953 0150
395-36	84-39582	b		X	X				3937 0187
395-37	84-39583	b		X	X				3938 0195
395-38	84-39584	b		X	X				3944 0204
395-39	84-39585	b		X	X				3945 0221
395-40	84-39586	b		X	X				3953 0235
395-41	84-39587	b		X	X				3951 0229
400-1	84-39588	a		X	X				4000 9871
400-2	84-39589	b		X	X				3998 9877
400-3	84-39590	b		X	X				4006 9886
400-4	84-39591	b		X	X				4000 9898
400-5	84-39592	b		X	X				4001 9907
400-6	84-39593	b		X	X				3990 9911
400-7	84-39594	b		X	X				3994 9944
400-8	84-39595	b		X	X				3997 9957
400-9	84-39596	b		X	X				4001 9977
400-10	84-39597	b		X	X				4003 9992
400-11	84-39598	b		X	X				4005 0037
400-12	84-39599	b		X	X				3999 0083
400-13	84-39600	b		X	X				3999 0093

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
400-14	84-39601	b		X	X				3999 0098
400-15	84-39602	b		X	X				3998 0107
400-16	84-39603	b		X	X				3996 0112
400-17	84-39604	b		X	X				3996 0120
400-18	84-39605	b		X	X				3999 0126
400-19	84-39606	b		X	X				3999 0132
400-20	84-39607	b		X	X				4000 0171 ~~0177~~
400-21	84-39608	b		X	X				4000 0182 ~~0187~~
400-22	84-39609	b		X	X				4004 0203
400-23	84-39610	b		X	X				4005 0209 Not sample
400-24	84-39611	b		X	X				4002 0221 No sample
400-25	84-39612	b		X	X				4001 0229
405-1	84-39613	b		X	X				4050 9872
405-2	84-39614	b		X	X				4049 9878
405-3	84-39615	b		X	X				4050 9883
405-4	84-39616	b		X	X				4056 9888
405-5	84-39617	b		X	X				4056 9894
405-6	84-39618	b		X	X				4050 9905
405-7	84-39619	b		X	X				4051 9912
405-8	84-39620	b		X	X				4049 9915
405-9	84-39621	b		X	X				4051 9920
405-10	84-39622	b		X	X				4048 9935
405-11	84-39623	b		X	X				4046 9950
405-12	84-39624	b		X	X				4054 9955
405-13	84-39625	b		X	X				4049 9957

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
405-14	84-39626	b		X	X				4057 9978
405-15	84-39627	b		X	X				4048 9982
405-16	84-39628	b		X	X				4047 9990
405-17	84-39629	b		X	X				4049 9995
405-18	84-39630	b		X	X				4049 0003
405-19	84-39631	b		X	X				4049 0008
405-20	84-39632	b		X	X				4055 0020
405-21	84-39633	b		X	X				4050 0025
405-22	84-39634	b		X	X				4050 0033
405-23	84-39635	b		X	X				4051 0037
405-24	84-39636	b		X	X				4050 0047
405-25	84-39637	b		X	X				4050 0053
405-26	84-39638	b		X	X				4050 0058
405-27	84-39639	b		X	X				4055 0063
405-28	84-39640	b		X	X				4055 0068
405-29	84-39641	b		X	X				4051 0072
405-30	84-39642	b		X	X				4050 0080
405-31	84-39643	b		X	X				4050 0087
405-32	84-39644	b		X	X				4050 0093
405-33	84-39645	b		X	X				4057 0098
405-34	84-39646	b		X	X				4048 0103
405-35	84-39647	b		X	X				4050 0108
405-36	84-39648	b		X	X				4050 0112
405-37	84-39649	b		X	X				4050 0118
405-38	84-39650	b		X	X				4050 0126

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
405-39	84-39651	b		X	X				4050 0131
405-40	84-39652	b		X	X				4053 0136
405-41	84-39653	b		X	X				4053 0139
405-42	84-39654	b		X	X				4050 0144
405-43	84-39655	b		X	X				4045 0159
405-44	84-39656	b		X	X				4041 0162
405-45	84-39657	b		X	X				4043 0166
405-46	84-39658	b		X	X				4049 0168
405-47	84-39659	b		X	X				4051 0195
405-48	84-39660	b		X	X				4049 0202
405-49	84-39661	b		X	X				4050 0206
405-50	84-39662	b		X	X				4050 0210
405-51	84-39663	b		X	X				4050 0214
405-52	84-39664	b		X	X				4050 0219
405-53	84-39665	b		X	X				4050 0226
410-1	84-39666	b		X	X				4105 9859
410-2	84-39667	b		X	X				4101 9865
410-3	84-39668	b		X	X				4101 9872
410-4	84-39669	b		X	X				4101 9880
410-5	84-39670	b		X	X				4100 9887
410-6	84-39671	b		X	X				4101 9892
410-7	84-39672	b?		X	X				4100 9900
410-8	84-39673	b		X	X				4099 9911
410-9	84-39674	b		X	X				4100 9984
410-10	84-39675	b		X	X				4100 9996

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
410-11	84-39676	b		X	X				4100 0002
410-12	39677	b		X	X				4100 0008
410-13	39678	b		X	X				4100 0013
410-14	39679	b		X	X				4100 0017
410-15	39680	b		X	X				4100 0022
410-16	39681	b		X	X				4100 0028
410-17	39682	b		X	X				4100 0033
410-18	39683	b		X	X				4100 0039
410-19	39684	b		X	X				4100 0044
410-20	39685	b		X	X				4100 0054
410-21	39686	b		X	X				4100 0058
410-22	39687	b		X	X				4100 0066
410-23	39688	b		X	X				4100 0074
410-24	39689	b		X	X				4092 4099 0087
410-25	39690	b		X	X				4103 0096
410-26	39691	b		X	X				4099 0104
410-27	39692	b		X	X				4103 0112
410-28	39693	b		X	X				4100 0121
410-29	39694	b		X	X				4100 0129
410-30	39695	b		X	X				4099 0135
410-31	39696	b		X	X				4097 0143
410-33	39697	b		X	X				4100 0148
410-34	39698	b		X	X				4101 0154
410-35	39699	b		X	X				4100 0161
410-36	39700	b		X	X				4101 0167

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
410-37	84-39701	b		X	X				4100 0178
410-38	39702	b		X	X				4100 0186
410-39	39703	b		X	X				4100 0192
410 40	39704	b		X	X				4099 0197
410-41	39705	b		X	X				4099 0206
415-1	39706	b		X	X				4150 9822
415-2	39707	b		X	X				4149 9827
415-3	39708	b		X	X				4149 9837
415-4	39709	b		X	X				4150 9844
415-5	39710	b		X	X				4155 9851
415-6	39711	b		X	X				4150 9855
415-7	39712	b		X	X				4148 9862
415-8	39713	b		X	X				4149 9867
415-9	39714	b		X	X				4149 9874
415-10	39715	b		X	X				4146 9881
415-11	39716	b		X	X				4147 9886
415-12	39717	b		X	X				4147 9898
415-13	39718	b		X	X				4150 9910
415-14	39719	b		X	X				4151 9916
415-15	39720	b		X	X				4150 9919
415-16	39721	b		X	X				4149 9960
415-17	39722	b		X	X				4150 9963
415-18	39723	b		X	X				4152 9974
415-19	39724	b		X	X				4150 9982
415-20	39725	b		X	X				4150 9989

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM
415-21	21-39726	b		X	X				4150 9995
415-22	39727	b		X	X				4150 0004
415-23	39728	b		X	X				4150 0017
415-24	39729	b		X	X				4151 0025
415-25	39730	b		X	X				4150 0032
415-26	39731	b		X	X				4150 0038
415-27	39732	b		X	X				4147 0041
415-28	39733	b		X	X				4148 0051
415-29	39734	b		X	X				4148 0054
415-30	39735	b		X	X				4150 0059
415-31	39736	b		X	X				4151 0066
415-32	39737	b		X	X				4150 0073
415-33	39738	b		X	X				4150 0079
415-34	39739	b		X	X				4149 0085
415-35	39740	b		X	X				4150 0092
415-36	39741	b		X	X				4150 0096
415-37	39742	b		X	X				4150 0102
415-38	39743	b		X	X				4152 0107
347.5-1	39744	b		X	X				3472 9939
347.5-2	39745	b		X	X				3468 9949
347.5-3	39746	b		X	X				3476 9957
347.5-4	39747	b		X	X				3474 9962
347.5-5	39748	b		X	X				3472 9965
347.5-6	39749	b		X	X				3481 9973
347.5-7	39750	b		X	X				3486 9976

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
347.5 - 8	84 - 39751	b		X	X				3479 8986
347.5 - 9	39752	b		X	X				3473 9980
347.5 - 10	39753	b		X	X				3474 9996
347.5 - 11	39754	b		X	X				3475 0002
347.5 - 12	39755	b		X	X				3472 0011
347.5 - 13	39756	b		X	X				3473 0016
347.5 - 14	39757	b		X	X				3476 0022
347.5 - 15	39758	b		X	X				3479 0026
347.5 - 16	39759	b		X	X				3484 0037
347.5 - 17	39760	b		X	X				3474 0046
347.5 - 18	39761	b		X	X				3475 0055
347.5 - 19	39762	b		X	X				3478 0061
347.5 - 20	39763	b		X	X				3477 0065
347.5 - 21	39764	b		X	X				3477 0069
347.5 - 22	39765	b		X	X				3475 0076
347.5 - 23	39766	b		X	X				3474 0081
347.5 - 24	39767	b		X	X				3475 0088
347.5 - 25	39768	b		X	X				3476 0092
347.5 - 26	39769	b		X	X				3476 0097
347.5 - 27	39770	b		X	X				3476 0104
3525 - 1	39771	b		X	X				3525 9920
3525 - 2	39772	b		X	X				3522 9927
3525 - 3	39773	b		X	X				3524 9933
3525 - 4	39774	b		X	X				3524 9942
3525 - 5	39775	b		X	X				3520 9951

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

Outokumpu Oy
PL 27, 02201 Espoo 20, Finland
Attn: R. Hurskainen

Løkken Gruber A/S & Co
7332 Løkken Verk
Attn.: T. Grenne

Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
3525-6	84-39776	b		X	X				3522 9957
3525-7	39777	b		X	X				3533 9961
3525-8	39778	b		X	X				3532 9986
3525-9	39779	b		X	X				3535 9992
3525-10	39780	b		X	X				3539 0002
3525-11	39781	b		X	X				3525 0006
3525-12	39782	b		X	X				3524 0011
3525-13	39783	b		X	X				3522 0016
3525-14	39784	b		X	X				3520 0021
3525-15	39785	b		X	X				3528 0028
3525-16	39786	b		X	X				3525 0034
3525-17	39787	b		X	X				3525 0039
3525-18	39788	b		X	X				3525 0045
3525-19	39789	b		X	X				3524 0052
3525-20	39790	b		X	X				3526 0056
3525-21	39791	b		X	X				3526 0061
3525-22	39792	b		X	X				3527 0067
3525-23	39793	b		X	X				3522 0075
3525-24	39794	b		X	X				3521 0079
3525-25	39795	b		X	X				3522 0088
3517.5-1	39796	b		X	X				3579 9925
3517.5-2	39797	b		X	X				3580 9930
3517.5-3	39798	b		X	X				3584 9937
3517.5-4	39799	b		X	X				3583 9943
3517.5-5	39800	b		X	X				3584 9956

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
357.5-6	84 - 39801	b		X	X				3580 9965
357.5-7	39802	b		X	X				3584 9976
357.5-8	39803	b		X	X				3580 9976
357.5-9	39804	b		X	X				3561 0037
357.5-10	39805	b		X	X				3561 0047
357.5-11	39806	b		X	X				3570 0086
362.5-1	39807	b		X	X				3623 9902
362.5-2	39808	a?		X	X				3622 9909
362.5-3	39809	b		X	X				3624 9915
362.5-4	39810	b		X	X				3625 9924
362.5-5	39811	b		X	X				3625 9931
362.5-6	39812	b		X	X				3625 9940
362.5-7	39813	b		X	X				3625 9943
362.5-8	39814	b		X	X				3629 9851
362.5-9	39815	b		X	X				3628 9957
362.5-10	39816	b		X	X				3627 9963
362.5-11	39817	b		X	X				3628 9966
362.5-12	39818	b		X	X				3629 9972
362.5-13	39819	b		X	X				3627 9979
362.5-14	39820	b		X	X				3626 9981
362.5-15	39821	b		X	X				3628 9985
362.5-16	39822	b		X	X				3626 9990
362.5-17	39823	b		X	X				3625 9995
362.5-18	39824	b		X	X				3625 9999
362.5-19	39825	b		X	X				3627 0004

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
362.5 - 20	84 - 39826	b		X	X				3627 0010
362.5 - 21	39827	b		X	X				3625 0016
362.5 - 22	39828	b		X	X				3625 0021
362.5 - 23	39829	b		X	X				3625 0026
362.5 - 24	39830	b		X	X				3628 0032
362.5 - 25	39831	b		X	X				3635 0043
362.5 - 26	39832	b		X	X				3636 0054
377.5 - 1	39833	b		X	X				3771 9851
377.5 - 2	39834	b		X	X				3777 9857
377.5 - 3	39835	b		X	X				3773 9867
377.5 - 4	39836	b		X	X				3775 9874
377.5 - 5	39837	b		X	X				3775 9881
377.5 - 6	39838	b		X	X				3775 9885
377.5 - 7	39839	b		X	X				3776 9888
377.5 - 8	39840	b		X	X				3780 9896
377.5 - 9	39841	b		X	X				3785 9899
377.5 - 10	39842	b		X	X				3772 9907
377.5 - 11	39843	b		X	X				3775 9911
377.5 - 12	39844	b		X	X				3776 9915
377.5 - 13	39845	b		X	X				3776 9919 ~~9918~~
377.5 - 14	39846	o		X	X				3778 9925
377.5 - 15	39847	b		X	X				3778 9930
377.5 - 16	39848	b		X	X				3773 9936
377.5 - 17	39849	b		X	X				~~3733~~ 3773 9943
377.5 - 18	39850	b		X	X				~~3734~~ 3774 9950

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM
377.5 - 19	84 - 39851	b		X	X				3780 9954
377.5 - 20	39852	b		X	X				3775 9962
377.5 - 21	39853	b		X	X				3776 9967
377.5 - 22	39854	b		X	X				3775 9971
377.5 - 23	39855	b		X	X				3774 9978
377.5 - 24	39856	b		X	X				3775 9984
377.5 - 25	39857	b		X	X				3779 9990
377.5 - 26	39858	b		X	X				3776 9995
382.5 - 1	39859	b		X	X				3824 9857
382.5 - 2	39860	b		X	X				3824 9865
382.5 - 3	39861	b		X	X				3827 9874
382.5 - 4	39862	b		X	X				3824 9879
382.5 - 5	39863	b		X	X				3826 9894
382.5 - 6	39864	b		X	X				3822 9906
382.5 - 7	39865	b		X	X				3824 9915
382.5 - 8	39866	b		X	X				3824 9922
382.5 - 9	39867	b		X	X				3821 9933
382.5 - 10	39868	b		X	X				3824 9939
382.5 - 11	39869	b		X	X				3825 9946
382.5 - 12	39870	b		X	X				3826 9955
382.5 - 13	39871	b		X	X				3821 9972
382.5 - 14	39872	b		X	X				3822 9980
382.5 - 15	39873	b		X	X				3823 9989
315 - 1	39874	b		X	X				3147 9775
315 - 2	39875	b		X	X				3151 9779
									?

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
315 - 3	84 - 39876	b		X	X				3157 9785
315 - 4	39877	b		X	X				3150 9797
315 - 5	39878	b		X	X				3155 9808
315 - 6	39879	b		X	X				3153 9818
315 - 7	39880	b		X	X				3149 9831
315 - 8	39881	b		X	X				3146 9838
315 - 9	39882	b		X	X				3156 9850
315 - 10	39883	b		X	X				3152 9862
315 - 11	39884	b		X	X				3153 9868
315 - 12	39885	b		X	X				3151 9874
315 - 13	39886	b		X	X				3149 9878
315 - 14	39887	b		X	X				3155 9882
315 - 15	39888	b		X	X				3147 9888
315 - 16	39889	b		X	X				3150 9894
315 - 17	39890	b		X	X				3152 9898
315 - 18	39891	b		X	X				3153 9904
315 - 19	39892	b		X	X				3157 9917
315 - 20	39893	b		X	X				3158 9926
315 - 21	39894	b		X	X				3151 9929
315 - 22	39895	b		X	X				3152 9933
315 - 23	39896	b		X	X				3151 9941
315 - 24	39897	b		X	X				3148 9944
315 - 25	39898	b		X	X				3151 9949
315 - 26	39899	b		X	X				3152 9957
315 - 27	39900	b		X	X				3146 9959

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
315 - 28	84 - 39901	b		X	X				3152 9970
315 - 29	39902	b		X	X				3167 0045
315 - 30	39903	b		X	X				3151 0043
315 - 31	39904	b		X	X				3152 0050
315 - 32	39905	b		X	X				3154 0078
315 - 33	39906	b		X	X				3149 0087
315 - 37	39907	b		X	X				3156 0159
315 - 39	39908	b		X	X				3155 0236
315 - 40	39909	b		X	X				3147 0267
315 - 41	39910	b		X	X				3146 0287
430 - 1	39911	b		X	X				4300 9775
430 - 2	39912	b		X	X				4301 9781
430 - 3	39913	b		X	X				4305 9793
430 - 4	39914	b		X	X				4305 9808
430 - 5	39915	b		X	X				4305 9814
430 - 6	39916	b		X	X				4303 9817
430 - 7	39917	b		X	X				4300 9825
430 - 8	39918	b		X	X				4304 9837
430 - 9	39919	b		X	X				4302 9844
430 - 10	39920	b		X	X				4301 9849
430 - 11	39921	b		X	X				4302 9860
430 - 12	39922	b		X	X				4301 9880
430 - 13	39923	b		X	X				4300 9888
430 - 14	39924	b		X	X				4301 9897
430 - 15	39925	b		X	X				4297 9907

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM
430 - 16	84 - 39926	b		X	X				4298 9921
430 - 17	39927	b		X	X				4299 9934
430 - 18	39928	b		X	X				4295 9941
430 - 19	39929	b		X	X				4303 9945
430 - 20	39930	b		X	X				4302 9950
430 - 21	39931	b		X	X				4301 9956
430 - 22	39932	b		X	X				4299 9968
430 - 23	39933	b		X	X				4299 0011
430 - 24	39934	b		X	X				4301 0017
430 - 25	39935	b		X	X				4297 0028
430 - 26	39936	b		X	X				4299 0037
430 - 27	39937	b		X	X				4297 0048
430 - 28	39938	b		X	X				4297 0060
430 - 29	39939	b		X	X				4297 0067
430 - 30	39940	b		X	X				4303 0071
430 - 31	39941	b		X	X				4305 0077
430 - 32	39942	b		X	X				4301 0084
430 - 33	39943	b		X	X				4296 0091
430 - 34	39944	b		X	X				4295 0099
430 - 35	39945	b		X	X				4291 0109
387,5 - 1	39946	b		X	X				3876 9853
387,5 - 2	39947	b		X	X				3880 9860
387,5 - 3	39948	b		X	X				3876 9864
387,5 - 4	39949	b		X	X				3877 9871
387,5 - 5	39950	b		X	X				3875 9878

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

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XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	UTM
387.5 - 6	84 - 39951	b		X	X				3875 9883
387.5 - 7	39952	b		X	X				3877 9894
387.5 - 8	39953	b		X	X				3880 9905
387.5 - 9	39954	b		X	X				3873 9911
387.5 - 10	39955	b		X	X				3874 9917
387.5 - 11	39956	b		X	X				3869 9930
387.5 - 12	39957	b		X	X				3866 9939
387.5 - 13	39958	b		X	X				3875 9950
387.5 - 14	39959	b		X	X				3875 9958
387.5 - 15	39960	b		X	X				3872 9962
387.5 - 16	39961	b		X	X				3869 9969
387.5 - 17	39962	b		X	X				3875 9973
387.5 - 18	39963	b		X	X				3875 9978
387.5 - 19	39964	b		X	X				3876 9983
387.5 - 20	39965	b		X	X				3877 9999
387.5 - 21	39966	b		X	X				3880 0010
420 - 1	39967	b		X	X				4198 9795
420 - 2	39968	b		X	X				4201 9803
420 - 3	39969	b		X	X				4200 9808
420 - 4	39970	b		X	X				4196 9816
420 - 5	39971	b		X	X				4202 9826
420 - 6	39972	b		X	X				4205 9834
420 - 7	39973	b		X	X				4198 9837
420 - 8	39974	b		X	X				4200 9847
420 - 9	39975	b		X	X				4199 9861

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XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

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Løkken area [X] Nord-Trøndelag area [ ]

SAMPLE NUMBER		CODE	CHEMISTRY				PETROPHYSICS		REMARKS
Orkla	OKME		AAS+S Dissolution Acid	AAS+S Dissolution Total	XRF	Au+Pd	Susc-Dens-Cond	I.P.	
420 - 10	84- 39976	b		X	X				4197 9870
420 - 11	39977	b		X	X				4205 9887
420 - 12	39978	b		X	X				4198 9900
420 - 13	39979	b		X	X				4199 9919
420 - 14	39980	b		X	X				4198 9930
420 - 15	39981	b		X	X				4199 9935
420 - 16	39982	b		X	X				4198 9943
420 - 17	39983	b		X	X				4195 9952
420 - 18	39984	b		X	X				4199 9967
420 - 19	39985	b		X	X				4198 9974
420 - 20	39986	b		X	X				4199 9984
420 - 21	39987	b		X	X				4198 9993
420 - 22	39988	b		X	X				4197 9997
420 - 23	39989	b		X	X				4200 0016
420 - 24	39990	b		X	X				4199 0036
420 - 25	39991	b		X	X				4197 0042
420 - 26	39992	b		X	X				4201 0050
420 - 27	39993	b		X	X				4200 0054
420 - 28	39994	b		X	X				4200 0062
420 - 29	39995	b		X	X				4198 0071
420 - 30	39996	b		X	X				4197 0083
420 - 31	39997	a		X	X				4201 0089
420 - 32	39998	b		X	X				4200 0098
420 - 33	39999	b		X	X				4202 0107
420 - 34	40000	b		X	X				4201 0119

Code: a=acid, b=basic, ub=ultrabasic, o=ore, a/o=mineralized acid rock, etc.

AAS: Ag-Co-Cu-Li-Ni-Pb-Zn

XRF: Si-Ti-Al-Cr-Fe-Mn-Mg-Ca-Sr-Ba-Na-K-P-Zr-Y-Rb-Cu-Zn-Cl-As

F

Gabbro og assosierte platonske bergarter

37601
602
613
1
616
637
1
641
643
644
648
1
651
664
1
670
682
1
689
710
1
718
720
721
745
746
768
1
770
790
792
793
869
1
871
946
1
951
953
1
966
995
1
998

38000
1
003
766
1
769
771
1
775
777
1
785
839
1
842
844
1
851
965
1
968
970
1
974
39036
1
041
071
1
073
089
1
094
099
1
107
137
1
144
309
1
317
366
1
369

39372
1
379
764
1
770
902
904
1
907
932
979
981

Helouda-porfyritter

37589
657
671
735
775
785
796
802
973
974
38006
837
843
39246
370
549
707
729
922
972
996

Trondhjemittganger

37675
797
801
979
989
38983
39222
224
491
537
567
610
633
642
691
997

Kvartskeratofyrer

37607
776
812
38786
1
789
795
797
802
854
855
868
909
1
912
916
920
931
932

Andre

39708, 719, 720, 808 } lav Al_2O_3

37696, 697 } Brannåsen skjerp

37737, 738 } Lav Zr (K_2O, Al_2O_3)
38858, 870 } Holondaporf. ??

38008, 1, 020 } Borhull Astrup

39001, 1, 025 } Sammenligning NGU/Rautarukki