

MAP NO.: ASSESSMENT REPORT X
105 J 15 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092978
MINING DISTRICT: WATSON LAKE
TYPE OF WORK: GEOCHEMISTRY

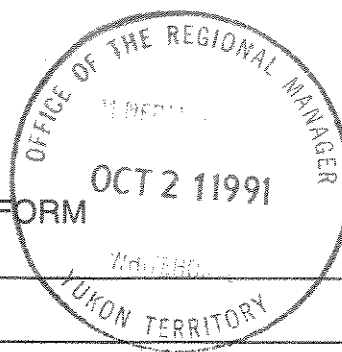
REPORT FILED UNDER: COMINCO LIMITED
DATE PERFORMED: JUNE 30-JULY 6, 1991 DATE FILED: OCTOBER 2, 1991
LOCATION: LAT.: 62°46'N AREA: MACMILLAN PASS
LONG.: 130°54'W VALUE \$: 20,000
CLAIM NAME & NO.: SHELL 1-100

WORK DONE BY: H.C. SCHULTZ

WORK DONE FOR: COMINCO LIMITED

DATE TO GOOD STANDING:

REMARKS: THE SEASHELL PROPERTY WAS STAKED TO COVER Ni Zn ANOMALIES FROM STREAM SEDIMENT SAMPLING AS RELEASED IN O.F. 2173. ROCKS UNDERLYING THE PROPERTY ARE ROAD RIVER AND EARN GROUP. A TOTAL OF 410 SOIL SAMPLES WERE COLLECTED ON THE PROPERTY. 701 WERE COLLECTED IN THE AREA. THE SAMPLES WERE ANALYSED BY SEQUENTIAL ICP FOR 9 ELEMENTS. THE SAMPLES WERE STATISTICALLY ANALYSED RESULTING IN 6% OF THE SAMPLES BEING STATISTICALLY ANOMALOUS COVERING TWO AREAS ON THE PROPERTY.



M.R. file no.
R.M.M.R. file no.
Date forwarded 18 Oct 1991

TRANSMITTAL FORM

From Mining Recorder at: WATSON LAKE

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <u>SHELL 1-100 1B33430-1B33529</u>	Claim sheet no. <u>105-J-15</u>
	Type of report <u>GC</u>	Submitted by <u>Comined Exploration</u>
	Cls. work performed on <u>SHELL 1,3,5,7-20,28-36,39-52,59-72,83-86,89,90</u>	\$ req. for ren. application <u>20,000.00</u>

Signature

REPLY ACTION

Date returned

Oct 29/91

092978

Signature

COMINCO LTD



EXPLORATION
NTS: 105J/15

WESTERN CANADA

1991 ASSESSMENT REPORT

SOIL GEOCHEMISTRY

SEASHELL PROPERTY - SHELL CLAIMS

WATSON LAKE MINING DISTRICT

YUKON TERRITORY



LATITUDE 62°46'

LONG. 130°54'

WORK PERFORMED BETWEEN

JUNE 30 - JULY 6, 1991

OCTOBER, 1991

H.C. SCHULTZE

092978

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ATTACHMENTS

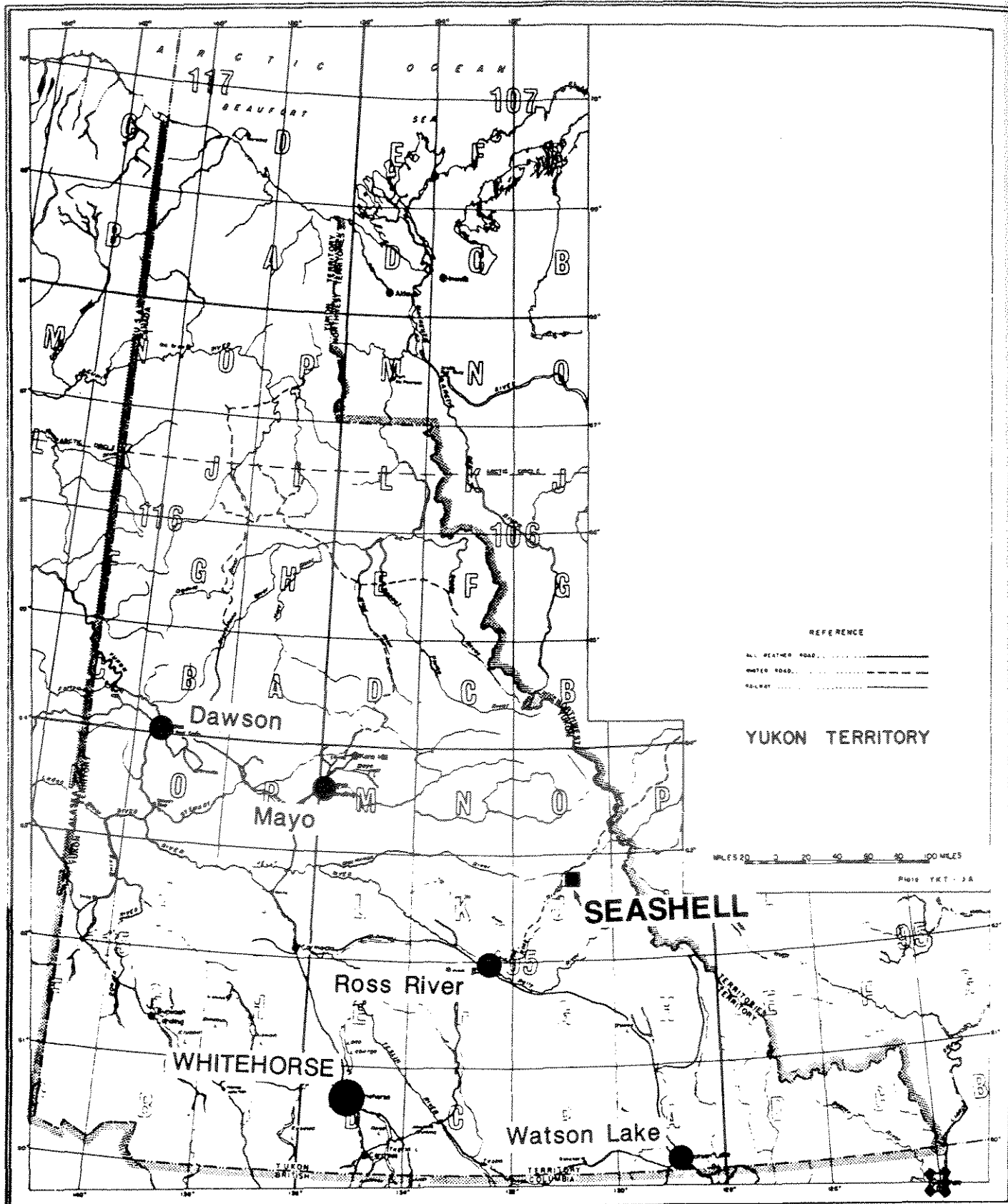
APPENDIX A -	Statement of Expenditures
APPENDIX B -	Affidavit
APPENDIX C -	Statement of Qualifications
APPENDIX D -	Analyses
APPENDIX E -	Statistical Data

FIGURES

FIGURE 1

PLATES

PLATE 91-1 -	Claim Map
PLATE 91-2 -	Soil Sample Location Map



Drawn by:		Traced by:	
Revised by:	Date:	Revised by:	Date:

LOCATION MAP

Scale:	Date:	Plate:
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COMINCO LTD

EXPLORATION
NTS: 105J/15

WESTERN CANADA
October 10, 1991

ASSESSMENT REPORT

SUMMARY

The Seashell property, comprising 100 claim units, was staked in August of 1990 in response to high Zn-Ni-Cd values encountered in stream silts collected by the G.S.C. and released in O.F. 2173.

A contour soil geochemistry program was undertaken in 1991 to evaluate the base metal potential underlying the property and the areas adjoining it. 419 samples were collected on the property while an additional 282 were collected in the proximity. Samples were collected from poorly developed "B" soils in swampy, well vegetated terrain. They were then processed and analyzed for Cu, Pb, Zn, Ag, Ni, Fe, As, Mo, V, Ba and Au at Cominco's Vancouver Exploration Research Laboratory.

Analyses are presented in Appendix "D" while statistical histograms and tables are attached. Sample locations are plotted on Plate 91-2.

Results indicate two anomalous Zn-Ni populations with associated trace elements are present on the property; the largest anomaly, numerically and areally, occurs on the eastern corner of the claims while a smaller anomaly lies on the WNW edge of the claim block. These anomalies bear the same elemental signatures and may be genetically related.

It is recommended that a small controlled soil geochem grid be established on the eastern, larger anomaly, and that once the anomaly is defined that it be trenched with a bulldozer or backhoe.

LOCATION

The Seashell Property is located 60 km SW of MacMillan Pass, 115 km NE of Ross River at latitude 62°46'N and longitude 130°54'W on NTS map sheet 105J/15. The property comprises 100 claims encompassing a square area, 10 units x 10 units in dimension. Access is possible by helicopter from air or by foot on the ground by following a 5 km long overgrown cat trail which connects the north end of the property to the North Canal Road.

The property is situated on a plateau which rises gently from marsh covered lowlands at 1118 m in the north to a high of 1477 m atop a knob near the properties southern border. From the southern margin of the property, the topography drops off sharply into the Ross River Valley to an elevation of 880 m. Roughly 70% of the property is covered by swampy vegetation and alders.

TENURE

The claims, totalling 100 units are owned 100% by Cominco Ltd. Due dates are as shown below after application of 1991 work expenditures.

<u>Claims</u>	<u>Staked</u>	<u>Due Date</u>
Shell 1-100	August 13, 1990	February 12, 1993

HISTORY

The Shell claims were staked in August 1990 to cover nickel-zinc stream silt anomalies produced in RGS data and released in 1990 O.F. 2173. The anomalous silts yielded up to 5060 ppm Zn, 741 ppm Ni, and 21.6 ppm Cd. The silts drain stratigraphy mapped by Gordey, 1987, as Ordovician-Silurian Road River Fm.

The 1991 program represents the first exploration work by Cominco on this ground.

In 1972, Hudson's Bay Exploration diamond drill tested anomalous zinc soil geochemistry on their Rog 1-12 claims situated adjacent the north end of the Seashell property and encountered zinc enriched black shales. The claims have since been abandoned.

WORK IN 1991 (June 30-July 6)

Objective

To evaluate the base metal potential of the property and adjacent areas by conducting a contour soil geochemistry survey.

Soil Geochemistry

701 soil samples were collected at 50 m spacings over 37 line kilometres on 12 contour lines. Of these samples 419 were collected on the Seashell Property. The lines and sample locations are shown on Plate 91-2. Lines were located in areas where relief is sufficient to accommodate this type of survey such that control on sample site locations could be maintained without use of compasses. Samplers attempted to collect the "B" soil horizon wherever possible and utilized shovels, hip chains and "Thommen" altimeters while on traverse.

The lines were designed to traverse stratigraphy mapped by Gordey, 1987 as Ordovician-Silurian Road River Fm and Devonian Earn Gp. It was hoped that a Howards Pass type target would become evident from the data.

All samples were collected in large kraft paper envelopes, air dried, and shipped to Cominco's Exploration Research Laboratory in Vancouver, B.C. for analysis. At the lab all samples were sieved to -80 mesh fraction and digested in a hot 20% nitric acid solution. Samples were then analysed by sequential ICP for 9 elements. Ba was determined by means of XRF on a loose pellet aggregate while Au was determined by aqua regia decomposition with solvent extraction and AA finish on a 10 g sample.

The lab failed to analyze 319 of the 701 samples for Ba; 202 of these samples represent part of the 419 samples collected on the property. These 419 samples are being applied for assessment credit.

RESULTS

The entire data set comprising results from 701 samples were treated statistically using Cominco software programs. Histogram plots of Pb, Zn, Ag, Ni, Mo, As, Cu, Fe, V and Ba along with a coefficient correlation matrix are attached in this report while results are tabulated in Appendix "D". From the histogram plots anomalous thresholds were established at 25 ppm Pb, 400 ppm Zn, 2.5 ppm Ag, 60 ppm Ni, 30 ppm As, 12 ppm Mo, 200 ppm V, 100 ppm Cu, 3% Fe and 4000 ppm Ba. No anomalous Au values were obtained with none of the analyses reaching detection limits.

Using these thresholds with a 10% margin of precision some 44 Zn and 49 Ni samples are anomalous representing approximately 6% of the total population.

The coefficient correlation matrix depicts the direct and indirect relationship between any two elements. The plot shows a very strong positive relationship between Zn and Ni with weaker positive correlations existing between Zn and the other elements with the exception of Pb and Ag. Indeed, Ag and Pb have little to no correlation with Zn at all. Pb correlates poorly with all the elements while Ag has an affinity with Cu.

Anomalous Zn and Ni values plotted on the map show a concentration of elevated values in the eastern corner of the property with the majority of values occurring intermittently over a 2 km length between samples 152815 and 152612. Another small grouping existing at the NW side of the property between samples 153050 and 153050. Spatially these anomalies are 2.5 km apart with the intervening space consisting of swamp and unsampled medium; therefore it is not possible to connect these anomalies. The anomalies may however, be related to the same source as they bear very similar geochemical signatures and may lie on strike with one another. The bedrock geology as mapped elsewhere in the proximity strikes in the same WNW direction.

CONCLUSIONS

Two anomalous areas are indicated on the claim group from the soil geochemical data collected in 1991. The largest anomaly occurs at the eastern corner of the property and has values up to 2007 ppm Zn and 186 ppm Ni while the other occurs on the NW edge of the claim block.

These anomalies have similar geochemical signatures and may be genetically related. Pb values are very low. Au was not detected in samples collected.

RECOMMENDATIONS

It is recommended that a small soil grid be established over the eastern anomaly to define the anomaly and the anomaly then be exposed by trenching to ascertain its source. Should the source prove significant additional claims should be staked to the ESE along strike and a more comprehensive geochemical/trenching program be undertaken.

REFERENCES

GORDEY, S.P. and IRWIN, S.E.B., 1987. Geology, Sheldon Lake and Tay River map areas, Yukon Territory. Map 19-1987.

G.S.C. OPEN FILE 2173 (1055), 1990. Regional Stream Sediment and Water Geochemical Data, East-Central Yukon.

McINTOSH, R.T., 1972. Assessment Report 091199. Diamond Drilling Rog Claims, Sheldon Lake Area.

Reported by:

H.C. Schultze

H.C. Schultze
Geologist I

Approved for
Release by:

W.J. Wolfe

W.J. Wolfe
Manager, Exploration-
Western Canada

HCS/pm
DISTRIBUTION

Mining Recorder (2)
Western Canada

APPENDIX 'A'

STATEMENT OF EXPENDITURES

SALARIES:

Geochemical Sampling Crew

G.K. Graham (Perm. Field Technician)	6 days @	\$249.15	\$1494.90
A. Davies (Temp. Field Technician)	4 days @	156.44	625.76
G. Bonin (Temp. Field Technician)	3 days @	156.44	469.32
J. Boyce (Temp. Field Technician)	3 days @	136.32	408.96
			<hr/> 2998.94

Report Writing

H.C. Schultze (Perm. Geologist)	2 days @	\$275.00	550.00
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GEOCHEMISTRY: 419 Samples Total

217 Samples: Cu,Pb,Zn,Ag,Ni,Fe,As,Mo,V,Ba & Au @ \$18.50/sample	4,014.50
202 Samples: Cu,Pb,Zn,Ag,Ni,Fe,As,Mo,V & Au at \$14.00/sample	2,828.00

TRANSPORTATION

Helicopter - 16.8 hours at \$600/hr.	10,080.00
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ACCOMMODATION

Nidd Camp room and board; 16 man days @ \$50	800.00
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TOTAL EXPENDITURES:	<hr/> \$21,271.44
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APPENDIX 'B'

AFFIDAVIT

I, H.C. Schultze, of the City of Vancouver, in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by Cominco Ltd and as such, have personal knowledge of the facts to which I hereinafter depose.
2. That annexed hereto and marked Exhibit "A" to this my Affidavit is a true copy of expenditures incurred on a soil geochemical survey conducted on the SHELL Mineral Claims during June and July of 1991.
3. That said expenditures were incurred June 30, 1991 through July 6, 1991 for the purpose of mineral exploration on the noted claims.



H.C. Schultze
Geologist I

October, 1991

APPENDIX 'C'

STATEMENT OF QUALIFICATIONS

I. H.C. Schultze, of the City of Vancouver, British Columbia, do hereby certify:

1. THAT I am a graduate of the University of Calgary 1988 with a B.Sc. degree, Geology Major.
2. THAT I am employed by Cominco Ltd as an exploration geologist.
3. THAT I have been actively involved in mineral exploration for the past seven years.



H.C. Schultze
Geologist I

October, 1991

APPENDIX 'D'

SOIL GEOCHEMISTRY DATA

SAMPLE NO.	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
152579	71	9	310	1	78	2.71	50	33	150	3708	10	10
152580	71	4	710	0.4	187	4.58	95	28	40	2179	10	10
152581	84	4	970	0.4	218	9.09	104	82	593	1629	10	10
152582	208	8	1433	2	289	3.68	20	36	514	3199	10	10
152583	89	4	223	0.5	43	1.53	7	17	94	2159	10	10
152584	49	8	537	0.7	63	1.99	4	18	128	2896	10	10
152585	159	9	322	0.4	51	2.3	5	25	199	3109	10	10
152586	41	22	52	0.4	8	1.01	6	11	71	2365	10	10
152587	19	5	24	0.4	8	0.3	2	5	30	1735	10	10
152588	59	18	181	0.4	25	1.64	5	17	132	2912	10	10
152589	58	7	228	0.9	37	1.34	2	11	71	2909	10	10
152590	72	10	261	0.7	36	1.81	4	15	122	3151	10	10
152591	100	12	309	1.2	45	1.62	4	15	100	3468	10	10
152592	68	9	395	2.3	52	2.04	6	17	150	3459	10	10
152593	42	9	133	0.4	19	1.22	4	13	88	2828	10	10
152594	55	12	196	0.4	34	1.76	2	17	97	3579	10	10
152595	67	7	1635	1.5	194	1.31	2	4	43	1910	10	10
152596	80	7	198	0.7	36	1.39	3	15	79	3015	10	10
152597	10	10	31	0.4	3	0.46	2	2	51	1572	10	10
152598	70	11	311	2.1	48	1.58	5	15	189	2865	10	10
152599	130	9	383	1.6	63	1.67	5	6	153	2814	10	10
152600	56	9	179	1.3	32	1.36	4	10	133	2824	10	10
152601	309	16	242	6.1	44	2.87	40	60	409	2790	10	10
152602	39	11	338	1.1	50	1.79	4	21	165	3004	10	10
152603	44	5	1400	0.5	104	2.17	3	28	157	2535	10	10
152604	60	8	560	0.7	64	1.9	7	18	120	3277	10	10
152605	93	6	1387	1.9	186	1.7	4	13	110	2996	10	10
152606	47	4	1077	1.1	92	0.8	2	7	56	1872	10	10
152607	91	10	309	1.1	42	1.16	4	12	151	3841	10	10
152608	112	7	578	0.7	59	0.92	7	17	249	3863	10	10
152609	47	10	403	0.8	48	1.82	3	18	65	3338	10	10
152610	38	11	2007	1.1	112	2.3	5	16	153	3085	10	10
152611	58	11	1216	0.8	110	1.83	3	18	258	3086	10	10
152612	58	9	267	0.8	28	1.7	4	10	155	2796	10	10
152613	37	18	124	0.6	19	2.4	6	13	146	2337	10	10
152614	34	16	89	1.8	11	1.77	4	13	103	1779	10	6.5
152615	27	12	112	1.5	11	1.08	3	6	75	2027	10	10
152616	17	17	60	1.3	7	0.63	2	4	62	1898	10	10
152617	17	16	77	0.6	8	1.2	2	8	75	1788	10	10
152618	20	12	76	0.4	6	1.06	2	15	71	1752	10	10
152619	26	12	94	0.4	15	2.24	2	17	112	1947	10	10
152620	47	11	246	0.4	38	1.9	6	25	168	3407	10	10
152621	35	10	277	0.4	37	1.85	2	22	98	2910	10	10
152622	22	11	91	0.4	12	1.42	2	11	96	2009	10	10
152623	17	9	39	0.7	4	0.55	2	6	66	1679	10	10
152624	11	4	16	0.9	2	0.18	2	3	33	1450	10	10
152625	38	14	103	0.4	13	2.03	3	22	161	2118	10	10
152626	40	18	198	0.6	31	2.73	3	43	121	2408	10	10
152627	14	9	47	0.4	5	0.4	3	2	76	1462	10	10
152628	57	13	731	3.2	65	2.08	4	28	404	3662	10	10
152629	25	12	95	1.6	8	0.85	2	6	104	1731	10	10
152630	51	5	680	0.4	42	0.78	2	8	221	2359	10	10
152631	90	13	1317	4.4	184	2.57	70	26	230	3736	10	10
152632	17	12	37	0.7	5	0.49	2	2	47	1612	10	10
152633	12	8	48	0.4	6	1.04	2	5	61	1808	10	10
152634	37	11	166	0.4	17	0.8	3	5	110	2633	10	10
152635	83	12	489	0.4	44	1.24	3	14	262	2815	10	10
152636	105	11	368	0.5	39	2.34	21	17	108	2620	10	10
152637	24	11	72	0.4	10	1.55	2	4	82	1929	10	10
152638	13	4	22	0.4	5	1.05	2	2	14	1416	10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
152639	19	5	16	0.9	5	1	2	2	14	1358	10	10
152640	32	13	82	0.4	11	1.95	3	10	116	1878	10	10
152641	48	44	178	1.1	17	2.74	5	9	25	3299	10	10
152642	82	11	236	0.6	28	0.88	7	10	171	3031	10	10
152643	75	10	261	0.7	28	1.6	5	11	130	2378	10	10
152644	12	6	11	0.4	1	0.63	2	4	20	1351	10	10
152645	35	14	76	2.1	12	2.33	9	20	142	2441	10	10
152646	40	10	65	3.1	9	1.71	7	22	181	1902	10	10
152647	25	10	53	0.9	8	1.59	3	14	151	1859	10	10
152648	8	13	18	1.3	2	0.8	2	7	38	1583	10	10
152649	48	13	57	3.5	8	0.97	8	11	117	1868	10	10
152650	10	9	16	1.8	1	0.57	2	6	28	1829	10	10
152810	17	4	116	0.4	21	0.46	2	3	26	1943	10	10
152811	48	4	148	1.5	28	0.41	2	6	37	2128	10	10
152812	26	11	85	0.4	25	2.2	2	19	48	2116	10	10
152813	64	12	254	1.6	54	2.02	3	19	114	2816	10	10
152814	23	10	210	0.4	22	1.63	6	14	91	2189	10	10
152815	6	8	15	0.4	1	0.21	2	2	17	1762	10	10
152816	25	10	86	0.4	11	2.78	2	20	85	1850	10	10
152817	73	11	229	2.2	61	2.1	5	16	109	3637	10	10
152818	10	4	93	1.2	25	0.53	3	3	14	1498	10	10
152819	16	4	42	0.7	14	0.72	3	3	17	1540	10	10
152820	41	10	224	1.3	35	2.87	7	25	166	4839	10	10
152821	32	8	135	2.3	26	1.66	4	12	93	2360	10	7.0
152822	26	7	118	1	15	1.1	3	10	73	2439	10	10
152823	45	16	228	1.4	30	3.88	8	42	194	3680	10	10
152824	23	19	73	0.4	8	2.51	4	29	124	2012	10	10
152825	39	8	130	1.4	25	1.89	3	25	109	2063	10	10
152826	42	12	154	1.1	23	2.29	4	25	116	2654	10	10
152827	33	8	123	0.7	19	1.61	3	23	97	2605	10	10
152828	26	7	75	2.2	10	1.08	3	9	55	2249	10	10
152829	49	9	84	3.8	17	0.82	2	6	47	2267	10	10
152830	66	18	216	5.5	27	2.18	2	18	151	3377	10	10
152832	66	12	389	2	43	2.08	3	14	81	3205	10	10
152833	57	14	345	1.1	37	2.17	3	19	87	2881	10	10
152834	61	12	331	1.5	50	3.04	3	26	92	3007	10	10
152835	47	11	128	1.2	21	2.51	5	19	76	2819	10	10
152836	76	16	207	1.8	27	2.59	4	28	98	2629	10	10
152837	32	13	67	1.2	10	3.08	3	23	93	2547	10	10
152838	45	15	175	1.6	25	2.3	4	22	91	3145	10	10
152839	90	16	172	0.8	25	2.73	4	27	95	3464	10	10
152840	50	13	216	1.4	47	1.67	3	18	77	2562	10	10
152841	69	17	210	2	44	2.42	3	25	113	3451	10	10
152842	102	13	142	0.9	22	2.12	3	21	85	3793	10	10
152843	58	16	114	3.6	16	1.52	2	7	54	2527	10	10
152844	112	12	121	0.9	21	2.4	3	25	68	2894	10	10
152845	106	11	144	1.8	25	2.84	10	39	277	2588	10	10
152846	65	10	51	1	10	1.27	2	14	65	2026	10	10
152847	105	16	115	4.1	17	2.9	4	34	161	2496	10	10
152848	36	12	123	3.3	21	1.49	5	17	71	2520	10	10
152850	40	12	205	1.8	30	1.75	3	24	88	2957	10	10
152661	42	62	241	4.7	28	3.15	21	16	102	3466	10	10
152662	38	35	151	3	18	1.3	8	7	116	2437	10	10
152663	53	15	115	4.7	18	1.18	7	6	69	1432	10	10
152664	78	31	343	1.7	45	1.88	14	9	214	2013	10	10
152665	28	11	115	1.7	12	0.7	6	8	132	2533	10	10
152666	95	9	222	0.4	28	3.09	3	22	128	3364	10	10
152667	52	31	95	2.4	11	1.74	4	23	116	1907	10	10
152668	80	25	1272	5.4	34	2.01	7	5	74	2807	10	10
152669	89	45	2770	1.4	53	1.49	7	10	198	2341	10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT.AU
152670	88	6	912	1.3	53	2.55	4	7	117	2159	10	10
152671	27	20	56	0.7	7	0.81	5	7	63	2041	10	10
152672	27	28	44	1.2	5	0.85	5	7	83	2138	10	10
152673	23	27	112	1.4	9	1.14	5	9	57	2435	10	10
152674	12	6	27	1.1	2	0.87	5	3	47	3470	10	10
152675	54	30	47	5.3	7	1.14	8	3	50	5381	10	10
152676	27	76	71	4.5	5	1.83	8	6	97	4946	10	10
152677	24	23	92	0.8	9	1.3	3	21	142	1742	10	10
152678	33	34	19	3.3	1	1.38	3	4	39	2541	10	10
152679	6	4	7	0.8	1	0.08	2	2	4	1218	10	10
152680	42	16	125	1	17	2.81	2	7	194	4088	10	10
152681	15	21	18	0.7	3	0.61	3	3	38	1895	10	10
152682	11	16	18	0.6	2	0.42	2	2	36	1680	10	10
152683	23	22	31	4.1	4	0.97	4	7	43	2056	10	10
152684	38	52	43	2	6	1.56	6	10	70	2469	10	10
152685	43	19	121	6.1	16	3.37	6	23	157	2236	10	10
152686	38	13	31	1.5	5	0.48	3	2	30	1586	10	10
152687	104	39	244	0.9	37	1.84	7	5	105	5048	10	10
152688	12	15	30	0.9	2	0.58	2	3	25	1862	10	10
152689	41	33	132	2.3	17	2.15	7	8	73	3107	10	10
152690	17	14	59	0.7	8	2.01	2	23	53	1959	10	10
152691	28	23	86	2.4	12	1.01	6	8	70	1766	10	10
152692	19	21	59	1.5	8	1.97	4	16	86	2004	10	10
152693	31	10	183	0.8	32	1.23	2	16	36	1431	10	10
152694	52	10	313	0.4	41	2.01	3	19	72	6513	10	10
152695	12	4	48	0.9	8	0.3	2	2	16	1379	10	10
152697	16	21	44	0.4	5	0.78	3	7	52	1859	10	10
152698	25	16	79	0.7	13	2.1	3	12	151	1828	10	10
152699	27	15	89	1.1	12	2.01	4	17	138	1717	10	10
152933	27	21	99	1	12	1.91	5	12	150	1837	10	10
152934	34	17	124	1.2	17	2.62	4	14	190	1987	10	10
152935	29	19	76	1.4	9	1.55	5	11	116	2011	10	10
152936	36	23	129	0.9	15	3.79	10	27	272	2019	10	10
152937	18	20	59	0.4	8	1.5	2	8	94	1648	10	10
152938	28	46	113	2.4	15	1.49	13	12	113	2288	10	10
152939	20	23	40	1.2	5	0.87	4	6	44	1694	10	10
152940	28	17	13	1.7	3	0.69	2	6	24	1520	10	10
152941	96	48	274	3.8	25	6.13	2	28	288	1725	10	10
152942	17	44	28	2.2	8	0.36	2	2	39	1589	10	10
152943	19	66	29	1.9	6	3.94	48	43	112	3600	10	10
153241	39	25	138	1.3	15	2.35	9	26	221	2482	10	10
153242	39	11	150	3.4	15	4.08	8	29	136	2731	10	10
153243	70	14	171	1.5	23	1.95	10	20	250	3159	10	10
153244	60	13	117	3	16	2.18	11	12	258	2726	10	10
153245	29	15	93	1.5	11	1.35	8	8	199	2458	10	10
153246	104	12	215	2.7	31	1.53	10	21	293	3553	10	10
153247	55	15	154	1	20	1.56	10	14	189	2695	10	10
153248	90	19	171	2.6	22	1.31	11	10	179	3358	10	10
153249	42	20	102	1.1	12	1.16	10	11	185	2312	10	10
153250	11	4	8	0.4	1	0.16	2	2	11	1264	10	10
153251	50	4	86	4.9	15	0.94	4	7	103	1860	10	10
153252	19	4	23	1.1	3	0.3	2	2	48	1625	10	10
153253	36	4	69	1.4	9	0.97	4	10	112	2183	10	10
153254	88	12	279	1.6	34	1.47	12	15	257	3802	10	10
153255	94	11	250	2.5	29	1.9	13	16	261	3580	10	10
153256	66	4	113	3	32	0.91	4	3	72	2272	10	7.5
153257	59	11	194	0.6	31	2	7	27	186	4391	10	10
153258	73	13	148	1.1	21	1.67	11	22	251	3795	10	10
153259	33	4	34	2.2	6	0.55	3	2	49	2651	10	10
153260	132	15	401	3.7	62	2.7	21	33	315	5382	10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
153261	101	14	101	4.6	22	1.46	10	7	164	3077	10	10
153262	137	13	176	7.1	36	2.25	18	22	227	4039	10	10
153263	108	11	120	5.6	4	0.03	11	10	153	2968	10	10
153264	138	19	104	6.9	22	2.15	22	19	522	3109	10	10
153265	74	11	110	5.9	24	1.6	9	13	120	2346	10	10
153266	80	21	139	5.1	24	3.24	13	21	91	3312	10	10
153267	176	5	140	1.1	30	1.47	8	15	127	2167	10	10
153268	23	4	70	0.4	13	1	2	3	13	1201	10	9.0
153269	85	30	159	3	29	4.18	18	20	123	2249	10	10
153270	106	13	137	3.8	24	2.12	11	12	89	2893	10	10
153271	27	17	53	3.1	8	1.57	6	7	62	2357	10	10
153272	26	10	55	0.6	8	1.47	2	9	48	1962	10	10
153273	28	4	100	0.5	20	1.18	2	9	38	3071	10	10
153274	13	4	57	0.4	9	1.02	2	12	40	2065	10	10
153275	33	11	141	0.4	19	2.13	4	29	88	3096	10	10
153276	33	9	273	0.4	35	1.91	5	19	162	3337	10	10
153277	23	7	125	0.4	13	1.27	7	15	78	2691	10	10
153278	40	11	182	0.4	31	2.05	3	25	86	3654	10	10
153279	31	7	137	0.4	22	1.69	3	21	62	2976	10	10
153280	51	11	226	0.4	37	1.79	7	25	86	3787	10	10
153281	29	7	123	0.4	15	1.89	3	21	114	2469	10	10
153282	33	8	157	0.4	23	1.72	2	16	72	3158	10	10
153283	25	4	114	0.4	16	1.33	2	13	61	2679	10	10
153284	33	7	161	0.4	23	1.64	2	15	63	3604	10	10
153285	21	4	86	0.4	16	0.87	2	8	36	2212	10	10
153286	30	4	125	0.4	20	1.41	2	7	65	2981	10	10
153287	38	10	169	0.4	31	1.94	2	16	72	3696	10	10
153288	66	11	287	0.4	46	2.28	5	24	106	3833	10	10
153289	58	7	357	0.4	43	1.84	9	15	96	3951	10	10
153290	48	10	220	0.4	41	2.03	4	19	79	4047	10	10
153291	58	7	270	0.4	40	2.11	5	13	103	4077	10	10
153292	71	8	267	0.4	43	2.16	5	15	94	4272	10	10
153293	59	8	220	0.4	35	1.81	6	16	92	4039	10	10
153294	33	11	169	0.4	23	1.69	2	20	86	3076	10	10
153295	47	9	207	0.4	35	1.8	3	18	84	3987	10	10
153296	57	5	227	0.4	32	1.8	4	18	108	3613	10	10
153297	51	6	195	0.4	32	1.6	3	11	81	3893	10	10
153298	38	10	172	0.4	26	1.54	4	15	91	3170	10	10
153299	58	8	220	0.4	33	1.69	4	16	101	3855	10	10
153300	43	9	179	0.4	26	1.98	3	18	96	3346	10	10
153301	42	9	159	0.4	24	1.92	4	17	98	3050	10	10
153302	47	6	176	0.4	28	1.63	3	13	89	3523	10	10
153303	31	4	131	0.4	18	1.5	3	12	78	2793	10	10
153304	31	4	131	0.4	19	1.59	3	13	80	2628	10	10
153305	50	5	188	0.4	31	1.93	2	9	91	3245	10	10
153306	50	4	132	0.4	22	1.53	3	10	70	3893	10	10
153307	33	5	101	0.4	18	0.96	2	9	51	2670	10	10
153308	37	6	224	0.4	35	1.95	3	16	78	3544	10	10
153309	34	6	135	0.7	23	2.22	9	23	59	2877	10	10
153310	32	7	132	0.7	21	1.64	3	16	66	3057	10	10
153311	32	5	132	0.5	22	1.65	3	14	65	3235	10	10
153312	23	7	130	0.4	15	1.66	3	16	61	2691	10	10
153313	24	5	59	0.4	9	1.13	3	3	44	1931	10	10
153314	41	9	93	0.4	20	1.86	2	16	81	2929	10	10
153315	26	4	49	0.4	10	0.85	2	5	31	2479	10	10
153316	37	7	121	0.4	19	1.8	5	13	75	2425	10	10
153317	4	4	6	0.4	1	0.08	2	2	2	1348	10	10
153318	17	6	50	0.4	5	1.14	2	10	42	1912	10	10
153319	4	4	28	0.4	3	0.63	2	5	29	1911	10	10
153320	7	4	17	0.4	4	0.44	2	5	25	1709	10	10

SAMPLE NO	CU	PB	ZN	AS	NI	FE	MO	AS	V	BA	AU	WT. AU
153321	19	7	68	0.4	9	3.75	6	32	75	3272	10	10
153322	41	10	135	0.4	21	2.5	5	19	65	4382	10	10
153323	34	10	130	0.4	22	2.09	3	11	58	3994	10	10
153324	80	11	205	0.4	56	2.23	4	23	72	3221	10	10
153325	47	11	134	1	25	2.02	3	17	73	4313	10	10
153326	4	4	5	0.6	1	0.19	2	2	4	1405	10	10
153327	5	4	7	0.4	1	0.22	2	2	5	1511	10	10
153328	80	10	201	0.7	50	3.09	6	23	85	4658	10	10
153329	36	10	135	0.4	35	2.17	4	19	65	3978	10	10
153330	47	9	201	0.4	57	3.56	6	22	70	3638	10	10
153331	41	7	151	0.4	55	2.29	8	13	59	2985	10	10
153332	40	4	151	0.4	56	1.91	5	10	53	2912	10	10
153333	29	4	136	0.7	28	1.42	2	7	46	2877	10	10
153334	50	10	100	1.4	30	2.63	3	9	44	2933	10	10
153335	46	9	101	0.5	31	2.65	3	6	45	3028	10	10
153336	12	4	38	0.4	4	0.74	2	4	29	1946	10	10
153337	10	4	37	0.4	6	0.78	2	2	28	1788	10	10
153338	26	4	74	0.4	29	2.14	4	16	39	2282	10	10
153339	37	6	67	0.4	22	1.52	3	5	35	3245	10	10
153340	44	11	171	1.1	44	2.3	2	17	61	3491	10	10
153341	43	14	193	0.4	43	2.17	2	23	90	4502	10	10
153342	37	12	85	0.4	20	1.64	3	10	59	3280	10	10
153343	21	4	33	0.4	10	1.3	3	9	35	1758	10	10
153344	32	4	60	0.7	29	2.18	2	8	13	1435	10	7.5
153345	28	5	76	0.4	13	1.61	4	14	62	2765	10	10
153346	28	7	59	0.4	13	1.44	3	8	57	2638	10	10
153347	30	4	64	0.4	12	1.25	3	8	45	2981	10	10
153348	49	5	71	0.4	22	1.77	3	20	49	2636	10	10
153349	31	7	79	0.4	17	1.59	4	15	55	2742	10	10
153350	17	18	97	0.7	12	3.1	5	34	243	2240	10	10
153351	33	7	129	0.4	21	1.63	3	29	66	2959	10	10
153352	33	4	165	0.4	26	1.84	4	16	96	3043	10	10
153353	32	7	130	0.7	19	1.47	2	18	64	3164	10	10
153354	39	6	145	0.4	23	2	4	22	94	3065	10	10
153355	24	5	112	0.4	17	1.86	2	25	68	2518	10	10
153356	20	4	84	0.4	14	1.13	2	12	51	2262	10	10
153357	32	6	133	0.4	20	1.62	3	19	67	3012	10	10
153358	50	10	203	0.4	33	2.05	3	17	87	3567	10	10
153359	32	6	120	0.4	19	1.52	2	19	65	2960	10	10
153360	37	10	207	0.4	29	1.95	3	21	89	3534	10	10
153361	33	4	149	0.4	21	1.62	2	18	68	3063	10	10
153362	47	5	200	0.4	33	1.92	3	19	81	3217	10	10
153363	40	5	208	0.4	34	2.03	3	21	72	3733	10	10
153364	41	7	166	0.4	26	1.52	2	17	71	3494	10	10
153365	41	9	211	0.4	31	1.99	4	21	88	3373	10	10
153366	33	7	130	0.4	21	1.47	3	15	68	2956	10	10
153367	41	12	170	0.4	25	2.02	4	20	93	3046	10	10
153368	36	7	186	0.4	24	1.72	5	16	94	3234	10	10
153369	40	10	161	0.4	28	1.52	4	16	69	3387	10	10
153370	30	8	143	0.4	24	1.7	2	15	69	2776	10	10
153371	41	8	194	0.4	34	1.71	3	17	81	3331	10	10
153372	41	12	194	0.4	32	1.89	3	21	80	3791	10	10
153373	34	6	140	0.4	28	1.61	3	18	69	3656	10	10
153374	30	10	125	0.4	21	1.54	3	15	76	3069	10	10
153375	34	5	129	1	23	1.34	4	13	56	2790	10	10
153376	36	10	170	0.4	24	1.97	4	15	104	3285	10	10
153377	42	7	183	1.3	28	1.82	4	12	85	3068	10	10
153378	73	10	306	1.7	51	2.8	6	22	139	4265	10	10
153379	48	8	181	0.4	28	1.95	4	21	90	3434	10	10
153380	39	11	135	0.7	25	3.97	12	18	106	2943	10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
153382	17	4	39	0.5	9	1	3	3	17	1336	10	10
153383	26	4	61	0.7	17	0.96	2	2	38	2010	10	10
153384	9	4	23	0.4	6	0.41	2	2	10	1612	10	10
153385	44	9	163	0.4	26	2.29	4	13	107	3223	10	10
153386	52	5	153	0.4	32	1.67	3	9	73	2702	10	10
153387	60	11	178	0.4	40	2.29	3	17	87	3432	10	10
153388	32	5	64	0.4	16	1.23	4	6	30	2092	10	10
153389	29	9	96	0.4	18	1.82	3	19	61	2749	10	10
153390	29	9	79	1	13	1.26	3	9	60	2206	10	10
153391	3	11	15	0.5	1	0.98	12	4	54	2007	10	10
153392	36	15	77	0.8	11	2.33	5	16	106	2404	10	10
153393	7	10	48	0.4	6	1.29	6	15	84	2281	10	10
153394	9	7	33	0.4	2	0.5	5	2	41	2007	10	10
153395	19	13	288	0.6	42	7.32	14	30	187	2883	10	10
153396	18	4	10	0.4	1	0.44	2	2	25	1530	10	10
153397	8	4	19	0.4	2	1.23	2	2	61	1890	10	10
153398	9	4	13	0.4	1	0.42	2	2	27	2017	10	10
153399	37	8	85	0.6	1	0.01	4	14	86	2276	10	10
153400	38	14	62	4	12	2.37	3	19	81	3084	10	10
153401	39	9	8	1.5	7	0.78	2	3	11	2897	10	10
153402	101	4	105	4.3	56	0.07	2	2	10	1351	10	10
153404	13	8	56	0.4	10	1.45	2	2	23	2300	10	10
153405	23	6	98	0.4	18	1.52	3	12	47	4386	10	10
153406	37	11	157	0.7	67	2.5	4	9	22	5142	10	10
153407	32	4	85	0.4	47	4.71	12	24	53	2244	10	10
153408	14	4	21	0.8	4	0.7	2	5	24	2079	10	10
153409	22	8	96	0.4	20	1.54	2	8	57	4681	10	10
153410	28	4	70	0.4	125	0.8	2	2	11	1549	10	10
153411	42	8	79	0.8	24	1.48	3	8	47	4457	10	10
153414	25	10	34	1	21	1.01	2	2	31	2739	10	10
153415	17	8	71	0.4	17	1.4	3	15	53	3153	10	10
153416	13	4	46	0.4	20	0.4	2	2	10	1996	10	10
153417	21	4	58	0.4	23	0.77	2	2	16	2314	10	10
153418	16	7	41	0.6	10	1.14	3	9	36	2386	10	10
153419	54	4	189	0.4	84	1.11	4	8	24	2564	10	10
153420	8	4	29	0.4	4	0.56	2	5	13	2016	10	10
153421	6	4	44	1	3	0.55	2	4	15	1650	10	10
153422	7	4	105	0.4	11	0.57	4	2	7	803	10	10
152945	20	8	27	0.4	5	0.86	2	27	30	2608	10	10
152946	4	14	37	0.4	4	0.99	2	4	50	1846	10	10
152947	4	6	26	0.4	3	0.71	2	2	43	1696	10	10
152948	24	13	44	0.4	13	0.88	2	3	30	2681	10	10
152949	8	5	25	0.4	3	0.48	2	2	31	1967	10	10
152950	16	14	22	0.7	3	0.62	2	5	22	2417	10	10
152951	6	5	15	0.4	1	0.4	2	2	26	1620	10	10
152952	15	10	65	0.9	11	2.61	4	22	79	1983	10	10
152953	13	11	70	2.2	11	2.38	5	20	150	2164	10	10
152954	9	4	19	0.4	4	0.42	2	3	20	1945	10	10
152955	31	13	65	1.1	15	1.52	2	8	59	3253	10	10
152956	20	6	68	0.4	16	1.42	2	10	40	3580	10	10
152957	3	12	22	0.4	2	0.77	2	8	53	1686	10	10
152958	19	10	16	0.4	4	0.56	2	4	21	1858	10	10
152959	6	6	25	1	4	0.61	2	2	23	1772	10	10
152960	6	6	19	0.4	2	0.43	2	2	21	1742	10	10
152961	12	13	55	0.4	9	1.63	2	13	68	1994	10	10
152962	26	21	40	0.4	8	1.26	2	3	32	2725	10	10
152963	26	15	86	0.4	12	1.47	2	4	61	2446	10	10
152964	5	15	26	1.7	3	1.05	2	8	53	1645	10	10
152965	3	4	17	0.4	2	0.3	2	3	25	1438	10	10
152966	10	10	18	1	3	0.6	2	8	32	1742	10	10

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
152967	14	20	98	0.6	13	3.21	3	23	128	2450	10	10
152968	16	20	188	0.4	36	2.45	3	6	51	1988	10	10
152969	13	45	51	0.4	7	1.48	5	10	57	3984	10	10
152970	24	14	81	0.4	14	1.52	4	15	103	2266	10	10
152971	22	11	70	1.3	20	1.2	4	8	91	2028	10	10
152972	9	17	21	1.1	1	0.45	2	2	29	1621	10	10
152973	19	19	54	2.4	9	2.42	3	26	97	1760	10	10
152974	20	4	11	0.5	1	0.24	2	2	13	1459	10	10
152975	7	20	25	1.4	4	1.43	2	10	62	1608	10	10
152976	22	14	89	0.7	13	2.52	3	31	146	2155	10	10
152977	8	15	39	0.4	5	1.03	2	3	65	1796	10	10
152978	7	4	14	0.4	3	0.38	2	2	23	1392	10	10
152979	19	4	77	5.5	11	3.13	2	21	102	2001	10	10
152980	21	11	98	1.7	15	2.04	4	19	111	1899	10	10
152981	17	13	51	0.4	6	0.83	2	3	65	2121	10	10
152982	18	10	128	1.1	18	2.55	4	32	137	2119	10	10
152983	10	8	70	0.4	11	1.99	4	21	94	1828	10	10
152984	14	9	78	0.4	10	1.85	2	8	84	1936	10	10
152985	21	9	23	1.1	5	0.66	2	4	36	1913	10	10
152986	15	5	16	0.4	2	0.32	2	4	17	1535	10	10
152987	6	16	29	0.4	3	0.86	3	7	66	1575	10	10
152988	8	14	45	0.6	8	2.76	2	36	144	1937	10	10
152851	20	14	36	0.7	8	0.63	4	2	44		10	10
152852	27	27	101	1.6	18	1.46	6	9	134		10	10
152853	16	8	47	0.4	10	0.56	3	5	29		10	10
152854	44	6	238	0.4	17	2.09	3	9	62		10	10
152855	48	11	702	0.4	47	2.1	4	14	247		10	10
152856	105	12	1105	2	77	1.81	4	13	116		10	10
152857	24	6	302	0.6	16	1.22	2	7	43		10	10
152858	56	10	832	0.4	40	2.19	4	8	111		10	10
152859	18	7	116	0.4	11	1.03	2	16	55		10	10
152860	56	12	270	0.4	30	1.55	3	18	91		10	10
152861	61	9	154	2	32	0.94	2	11	77		10	10
152862	124	19	102	0.7	19	2.6	3	28	73		10	10
152863	34	21	71	1.8	8	3.37	5	30	106		10	10
152864	58	15	88	2.3	18	1.34	4	6	61		10	10
152865	19	5	20	0.4	3	0.29	2	2	14		10	10
152866	78	19	38	0.4	5	1.22	2	18	60		10	10
152867	66	16	35	1.6	7	1.56	5	16	75		10	10
152868	40	4	15	2.1	1	0.6	2	2	21		10	10
152869	70	13	29	0.4	5	0.72	3	2	33		10	10
152870	73	13	95	11.6	13	3.62	19	28	137		10	10
152871	7	4	8	0.4	1	0.11	2	2	2		10	10
152872	32	15	31	5.7	3	5.59	4	32	50		10	10
152873	10	4	20	0.4	1	0.11	2	2	3		10	10
152874	34	8	212	0.4	19	5.78	2	30	165		10	10
152875	26	6	56	0.4	18	0.57	2	2	43		10	10
152876	29	4	17	2.9	10	1.22	2	11	82		10	10
152877	15	4	30	0.4	6	0.62	2	2	44		10	10
152878	31	22	38	5.1	4	1.6	15	8	113		10	10
152879	10	5	13	1.4	1	0.32	2	2	16		10	10
152880	9	15	21	1.1	2	0.5	2	2	40		10	10
152881	29	5	39	0.5	2	6.25	2	2	56		10	10
152882	57	17	139	0.8	21	3.12	8	25	271		10	10
152883	19	6	66	0.4	19	0.61	2	6	73		10	10
152884	20	4	36	1.2	6	0.35	2	5	39		10	10
152885	62	9	197	0.4	75	1.78	6	27	92		10	10
152886	27	13	265	0.4	27	2.25	3	26	73		10	10
152887	40	11	120	0.4	13	1.69	10	11	131		10	10
152888	53	14	173	1.1	25	1.62	8	21	166		10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
152889	120	7	27	4.1	6	2.32	4	13	56		10	10
152890	75	4	16	9.9	4	0.47	2	2	12		10	10
152891	20	14	31	0.4	3	0.57	3	5	38		10	10
152892	72	23	58	6.6	10	1.95	12	13	83		10	10
152893	20	4	32	3	8	0.32	6	4	75		10	10
152894	46	4	19	0.7	2	1.47	2	6	18		10	10
152895	30	13	38	0.8	4	0.5	6	4	88		10	10
152896	204	14	177	4.5	23	1.56	14	23	129		10	10
152897	25	11	56	0.4	8	0.78	4	9	96		10	10
152898	29	10	42	1.9	2	0.36	3	2	55		10	10
152899	54	16	236	2.1	32	1.3	6	13	110		10	10
152900	29	16	126	0.4	20	1.98	7	24	153		10	10
152901	54	11	488	0.4	56	2.38	10	26	283		10	10
152902	45	8	304	0.4	40	1.88	6	17	146		10	10
152903	27	8	196	0.4	22	1.58	4	18	96		10	10
152904	14	9	45	0.4	4	0.96	3	8	72		10	10
152905	5	4	19	0.6	1	0.28	2	2	31		10	10
152906	9	4	212	0.4	11	0.48	2	2	38		10	10
152907	37	4	604	0.4	62	1.31	5	10	105		10	10
152908	28	7	44	0.4	5	0.49	2	5	46		10	10
152909	103	10	335	1.7	31	1.19	6	15	210		10	10
152910	17	4	60	0.4	5	0.25	3	3	63		10	10
152911	41	8	158	1	27	1.72	2	15	68		10	10
152912	127	8	1262	0.7	87	1.19	6	18	273		10	10
152913	106	5	839	0.4	75	0.88	5	10	186		10	10
152914	119	7	1355	0.8	94	1.44	3	20	243		10	10
152915	142	9	1967	1.6	135	1.35	7	23	374		10	10
152916	44	7	236	0.4	32	0.58	6	3	186		10	10
152917	139	12	355	0.8	45	1.48	9	13	163		10	10
152918	21	6	72	0.4	10	1.31	3	9	108		10	10
152919	85	5	659	0.4	95	1.25	24	19	187		10	10
152920	34	10	114	0.7	15	1.15	4	5	97		10	10
152921	40	11	105	0.4	19	1.48	2	2	64		10	10
152922	48	8	111	0.4	18	1.7	2	6	90		10	10
152923	4	4	15	0.4	1	0.16	2	2	31		10	10
152924	51	9	131	0.4	18	1.38	2	2	34		10	10
153001	8	5	15	0.4	2	0.38	2	4	22		10	10
153002	12	13	45	0.4	8	1.32	2	18	59		10	10
153003	13	14	52	0.4	8	1.85	2	19	76		10	10
153004	16	15	36	0.4	6	1.2	2	6	43		10	10
153005	11	12	42	0.4	6	1.51	2	4	62		10	10
153006	17	11	56	0.4	10	1.87	2	14	61		10	10
153007	40	13	32	0.4	14	1.02	2	3	39		10	10
153008	29	9	64	0.5	10	1.04	2	6	30		10	10
153009	38	13	50	0.5	14	1.23	2	2	43		10	10
153010	39	11	17	0.4	4	0.39	2	2	16		10	10
153011	6	5	13	0.4	1	0.23	2	3	19		10	10
153012	5	4	11	0.4	1	0.26	2	2	18		10	10
153013	9	17	20	0.4	1	0.68	2	2	15		10	10
153014	32	13	85	0.4	15	2.21	2	11	64		10	10
153015	4	4	11	0.4	1	0.32	2	2	21		10	10
153016	6	4	18	0.4	1	0.35	2	2	25		10	10
153017	9	4	8	0.7	1	0.13	2	2	11		10	10
153018	13	20	47	2.6	9	2.38	2	19	81		10	10
153019	17	15	20	0.9	6	0.51	3	2	48		10	10
153020	13	16	54	1.1	10	2.36	6	36	208		10	10
153021	15	18	31	1.5	6	1.48	3	9	179		10	10
153023	11	17	48	0.4	8	3.84	3	21	86		10	10
153024	5	4	10	0.5	1	0.18	2	2	18		10	10
153025	22	15	29	1	4	0.83	2	4	32		10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
153026	11	8	18	0.4	2	0.41	2	2	32		10	10
153027	10	18	38	0.4	6	2.63	2	10	69		10	10
153028	19	13	59	2	10	1.89	4	16	56		10	10
153029	16	14	63	0.4	11	2.43	2	11	57		10	10
153030	10	21	42	3	8	1.67	2	9	92		10	10
153031	20	20	84	3.1	12	3.24	2	6	86		10	10
153032	11	16	32	0.4	4	0.95	2	8	44		10	10
153033	13	14	34	0.4	5	1.1	2	7	46		10	10
153034	7	14	26	0.4	5	1.55	2	8	40		10	10
153035	10	15	26	0.4	3	1.28	2	9	44		10	10
153036	8	11	29	1	4	1.96	2	7	50		10	10
153037	15	9	36	0.4	6	1.34	2	5	36		10	10
153038	10	15	29	0.6	4	1.69	2	8	63		10	10
153039	12	13	35	1.3	5	1.91	2	8	65		10	10
153040	7	14	29	0.4	4	1.53	2	7	52		10	10
153041	10	5	23	0.4	4	0.61	3	3	45		10	10
153042	14	12	28	0.4	4	0.93	5	11	52		10	10
153043	7	13	19	0.4	3	0.88	2	10	46		10	10
153047	33	4	154	0.6	21	1.16	3	6	58		10	10
153048	13	12	80	0.6	10	1.27	4	12	69		10	10
153049	154	21	363	1.3	174	0.74	6	7	117		10	10
153050	40	10	121	2.7	15	1.08	10	7	76		10	10
153051	20	4	23	0.4	7	0.34	2	2	17		10	10
153052	39	6	133	5.3	21	1.83	5	26	94		10	10
153053	166	13	274	2.2	67	1.35	10	7	110		10	5.0
153054	44	20	162	3.1	24	2.23	10	25	115		10	10
153055	25	8	41	0.4	8	0.52	3	4	73		10	10
153056	84	4	243	6.3	71	0.36	2	2	21		10	10
153057	38	11	357	2.5	54	2.43	26	30	233		10	10
153058	76	14	434	2.3	85	3.82	61	16	158		10	10
153059	50	8	279	1.9	46	1.73	7	7	93		10	10
153060	50	9	192	0.4	26	2.74	8	22	117		10	10
153061	38	12	162	0.4	23	1.8	3	26	87		10	10
153062	36	10	118	0.4	17	1.74	3	17	71		10	10
153063	22	5	118	0.7	16	1.54	2	17	55		10	10
153064	40	4	162	0.4	25	1.81	3	17	61		10	10
153065	33	11	146	0.4	23	1.92	2	18	62		10	10
153066	28	5	151	0.4	23	1.53	3	14	52		10	10
153067	29	4	256	0.4	36	1.88	4	20	53		10	10
153068	25	11	210	0.5	35	1.99	2	14	42		10	10
153069	15	5	89	1.8	16	1.06	3	6	26		10	10
153070	26	10	160	0.4	23	1.9	2	22	52		10	10
153071	25	8	146	0.4	24	1.47	2	14	39		10	10
153072	47	6	248	0.4	65	1.44	11	7	34		10	10
153073	32	9	162	0.4	27	1.63	2	18	53		10	10
153074	13	6	221	0.4	25	1.61	5	19	52		10	10
153075	22	5	229	0.4	45	1.82	10	21	45		10	10
153076	32	13	173	0.4	29	2.13	3	20	57		10	10
153077	14	8	89	0.4	15	1.26	2	11	43		10	10
153078	23	8	145	0.4	22	1.77	3	15	49		10	10
153079	26	4	283	0.4	50	2.36	26	34	48		10	10
153080	50	8	267	1.6	45	1.81	8	13	92		10	10
153081	32	10	164	0.5	27	2.01	3	20	51		10	10
153082	20	5	115	0.6	18	1.43	3	17	41		10	10
153083	14	5	97	0.6	12	1.02	4	10	37		10	10
153084	26	4	96	0.4	16	1.19	3	9	37		10	10
153085	28	10	179	0.4	29	2.06	4	22	53		10	10
153086	18	6	83	1	12	1.55	6	12	40		10	10
153087	31	5	298	0.9	45	4.42	80	60	49		10	10
153103	50	6	1832	1.7	199	1.69	8	10	133		10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT.AU
153104	32	4	206	2.1	37	0.72	2	5	38		10	10
153105	41	6	258	2	39	1.37	6	9	91		10	10
153106	35	7	211	0.4	28	1.76	7	11	113		10	10
153107	1	10	143	2.5	25	1.6	6	17	101		10	10
153108	40	10	162	1.3	23	1.87	5	15	92		10	10
153109	72	13	174	5	38	2.79	6	30	90		10	10
153110	70	4	84	14.7	23	1.02	3	2	28		10	10
153111	94	13	265	2.4	40	1.92	13	18	140		10	10
153112	48	5	203	0.9	31	1.83	7	19	87		10	10
153113	20	9	87	0.4	14	1.55	5	16	68		10	10
153114	38	4	143	1.1	31	4.01	50	120	95		10	10
153115	33	4	154	1.4	28	3.31	24	64	74		10	10
153116	23	14	94	0.4	16	2.18	5	19	60		10	10
153117	72	11	133	1.9	26	2.36	10	22	59		10	10
153118	36	10	98	1.5	20	2	5	27	73		10	10
153119	23	4	53	0.4	16	1.1	4	2	11		10	10
153120	23	12	114	0.4	18	1.77	5	19	79		10	10
139140	26	10	95	0.6	19	1.72	3	7	46		10	10
139141	24	4	99	1	16	1.27	2	5	38		10	10
139142	55	13	248	0.4	41	2.58	5	31	73		10	10
139143	85	12	313	1.1	89	2.63	4	24	71		10	10
139144	35	10	201	0.4	30	1.93	5	25	67		10	10
139145	72	12	260	0.5	67	2.09	7	21	49		10	10
139146	12	4	47	1.1	8	0.56	2	5	17		10	10
139147	47	10	288	1.2	41	2.33	8	21	77		10	10
139148	31	8	186	0.9	27	2.52	7	21	61		10	10
139149	47	9	293	3.4	50	2.01	7	18	74		10	10
153090	45	5	476	0.9	45	2.36	7	31	126		10	10
153091	33	8	125	0.4	23	1.76	3	18	49		10	10
153092	22	11	115	0.5	20	1.8	2	18	47		10	10
153093	27	11	112	0.4	19	1.68	2	17	40		10	10
153094	30	10	143	0.4	22	2.36	3	19	51		10	10
153095	30	10	148	0.4	25	2.14	3	22	55		10	10
153096	7	4	35	0.4	5	0.4	2	3	14		10	10
153097	27	6	324	2.5	51	1.93	54	22	48		10	9.0
153098	56	15	490	5.3	106	3.3	81	22	110		10	8.0
153099	29	9	141	0.4	21	1.67	4	9	68		10	10
153100	21	4	46	0.4	9	1.59	2	10	18		10	10
153101	31	9	157	1.5	27	1.64	3	18	63		10	10
153102	28	4	133	1.1	23	1.94	3	15	51		10	10
153121	16	11	72	0.4	10	1.47	2	11	82		10	10
153122	36	13	116	1.4	14	1.62	8	20	160		10	10
153123	17	4	18	0.7	2	0.18	2	3	9		10	7.5
153124	27	11	101	1.5	13	2.15	8	18	181		10	10
153125	18	13	82	1.4	10	1.2	5	9	113		10	10
153126	35	20	86	0.4	11	2.79	11	22	160		10	10
153127	10	11	41	0.4	4	1.59	3	19	104		10	10
153128	28	11	74	2.3	9	2.04	10	15	197		10	10
153129	56	35	133	9.9	14	2.43	14	24	209		10	10
153130	39	12	110	2.5	15	2.09	8	22	254		10	10
153131	31	13	85	5	10	2.27	10	24	269		10	10
153132	1	4	5	1.6	1	0.12	2	2	2		10	10
153133	14	11	39	2.2	2	0.7	5	8	97		10	10
153134	14	6	14	0.4	1	0.17	2	2	35		10	10
153135	27	9	57	2.5	7	0.75	5	8	91		10	10
153136	70	12	119	1.8	17	1.97	12	30	366		10	10
153137	15	19	82	5.6	9	2	5	11	141		10	10
153138	22	10	48	0.5	6	1.03	4	9	115		10	10
153139	29	10	73	0.4	9	1.06	5	13	94		10	10
153140	195	11	251	3.6	44	2.27	17	34	308		10	10.

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
153141	230	23	153	5.8	25	3.58	33	56	327		10	10
153142	23	11	65	4.9	10	2.22	6	18	145		10	10
153143	24	5	40	1.3	7	1.16	3	16	53		10	10
153144	172	6	384	16.1	81	5.93	42	78	489		10	10
153145	41	8	69	1.9	8	0.82	10	10	86		10	10
153146	15	7	30	0.7	2	0.28	2	4	24		10	10
153147	532	12	1059	11.9	364	6.63	42	111	564		10	10
153148	54	9	48	0.4	11	1.13	59	28	588		10	10
153149	718	11	216	4.4	53	3.71	11	38	217		10	10
153150	118	12	145	0.4	28	2.7	5	23	174		10	10
153151	16	11	67	0.4	9	1.49	3	14	73		10	10
153152	17	6	54	0.4	9	1.35	2	6	55		10	10
153153	14	15	45	1.3	5	0.88	3	9	30		10	10
153154	192	11	609	0.4	82	1.76	14	18	489		10	10
153155	46	16	170	6.4	22	1.21	14	13	118		10	10
153156	22	9	39	0.4	5	0.71	3	12	72		10	10
153157	15	5	109	0.5	11	0.72	3	8	54		10	10
153158	35	6	66	1.6	11	1.07	2	14	73		10	10
153159	15	15	65	0.4	10	2.78	3	28	120		10	10
153160	46	14	99	0.4	12	2.27	67	44	589		10	10
153161	15	10	74	0.4	10	2.27	3	21	74		10	10
153162	27	28	27	2.5	6	0.3	8	6	420		10	10
153163	38	10	47	2.4	8	0.7	4	10	46		10	10
153164	38	39	103	3.6	12	1.79	51	20	427		10	10
153165	28	4	14	0.9	1	0.22	2	2	20		10	10
153166	25	11	96	0.4	14	1.74	3	14	72		10	10
153167	33	14	115	3.2	14	1.08	10	9	120		10	10
153168	21	6	18	0.4	1	0.41	2	5	23		10	10
153169	21	13	79	2.4	11	1	7	10	125		10	10
153170	13	10	38	0.4	3	0.68	2	4	75		10	10
153171	20	6	31	0.4	3	0.39	2	5	43		10	10
153172	38	9	144	0.5	20	1.66	4	18	144		10	10
153173	43	8	145	0.4	22	1.51	5	21	120		10	10
153174	40	11	162	0.4	24	1.83	6	23	162		10	10
153175	39	12	143	0.9	18	2.4	7	31	166		10	10
153176	30	11	108	1	18	1.36	2	13	85		10	10
153177	28	8	81	0.6	14	1.34	4	11	57		10	10
153178	36	6	116	0.4	21	1.39	3	13	65		10	10
153179	39	8	140	0.4	21	1.9	2	23	80		10	10
153180	25	9	129	0.4	19	1.74	3	19	79		10	10
153181	30	4	142	0.4	20	1.92	2	22	79		10	10
153182	29	9	124	0.4	21	1.61	2	20	56		10	10
153183	25	6	171	0.4	26	1.57	2	18	55		10	10
153184	27	9	141	0.4	21	1.55	2	18	52		10	10
153185	38	8	179	0.4	32	1.79	3	21	62		10	10
153186	28	11	133	0.4	19	1.83	2	26	54		10	10
153187	29	8	164	0.4	27	1.81	2	25	58		10	10
153188	37	7	248	0.4	46	1.75	6	28	60		10	10
153189	21	7	199	0.4	27	1.8	6	28	64		10	10
153190	27	8	220	0.4	31	1.54	5	23	61		10	10
153191	31	10	162	0.4	28	1.78	3	17	66		10	10
153192	22	5	126	0.4	18	1.56	3	18	57		10	10
153193	30	9	147	0.4	26	1.48	3	19	51		10	10
153194	18	5	78	0.4	12	1.16	2	20	43		10	10
153195	34	7	135	0.4	21	1.58	2	19	59		10	10
153196	31	6	142	0.4	22	2.15	4	26	72		10	10
153197	30	4	127	0.4	17	1.22	2	15	45		10	10
153198	32	6	128	0.4	23	1.62	2	20	55		10	10
153199	25	7	135	0.4	23	1.48	3	22	55		10	10
153200	14	7	61	0.4	9	1.29	3	26	47		10	10

SAMPLE NO	CU	PB	ZN	AG	NI	FE	MO	AS	V	BA	AU	WT. AU
153201	24	10	133	0.4	23	1.43	3	23	55		10	10
153202	48	13	178	1.5	22	2.98	8	30	314		10	10
153203	41	8	150	1.1	13	1.26	6	17	140		10	10
153204	46	8	139	0.6	16	1.27	6	16	189		10	10
153205	39	10	99	0.4	13	1.29	5	18	146		10	10
153206	39	9	104	0.4	17	1.61	5	18	135		10	10
153207	37	4	71	0.8	11	1.01	4	7	46		10	10
153208	75	12	187	1	28	1.41	9	19	201		10	10
153209	47	9	170	0.6	27	1.51	5	20	104		10	10
153210	46	13	182	2.5	24	1.37	6	17	151		10	10
153211	88	13	182	3.7	24	1.55	12	19	223		10	10
153212	34	20	197	4.9	25	1.78	32	24	382		10	10
153213	140	9	61	7	19	0.66	5	5	110		10	10
153214	25	9	110	0.4	16	1.59	3	14	75		10	10
153215	35	12	136	0.4	22	2.03	2	18	80		10	10
153216	37	18	109	2	11	1.2	6	11	101		10	10
153217	54	9	189	0.4	27	1.91	4	25	154		10	10
153218	48	9	164	1.3	20	1.75	5	33	182		10	10
153219	16	17	70	1.7	8	1.56	5	11	126		10	10
153220	32	14	121	0.4	14	1.74	5	23	173		10	10
153221	24	7	32	1.2	2	0.31	2	2	20		10	10
153222	24	9	76	2	9	1.62	3	12	93		10	10
153223	14	20	38	1.8	3	1.28	4	7	43		10	10
153224	58	12	146	1.4	23	1.42	3	18	111		10	10
153225	12	15	43	0.4	4	0.41	2	6	48		10	10
153226	44	14	151	1.4	17	1.34	4	9	104		10	10
153227	40	16	78	1.3	10	1.75	3	16	97		10	10
153228	16	13	69	1.3	7	1.66	3	18	137		10	10
153229	10	14	31	0.4	3	0.74	2	6	64		10	10
153230	18	17	74	0.4	9	1.67	3	21	132		10	10
153231	14	14	82	0.7	9	1.94	3	18	124		10	10
153232	9	15	22	0.5	2	0.33	2	3	45		10	10
153233	14	20	80	1.3	9	2	3	12	160		10	10
153234	11	14	45	0.4	5	1.42	2	10	93		10	10
153235	20	14	83	1.4	10	2.02	5	20	188		10	10
153236	7	12	25	0.4	3	0.43	2	5	64		10	10
153237	33	10	137	1.1	17	1.5	2	16	98		10	10
153238	47	11	201	1.4	29	1.82	3	23	130		10	10
153239	65	15	224	0.4	33	1.85	5	19	127		10	10
153240	48	13	152	0.4	24	1.38	2	14	97		10	10
152931	17	13	49	0.4	7	0.97	2	9	69		10	10

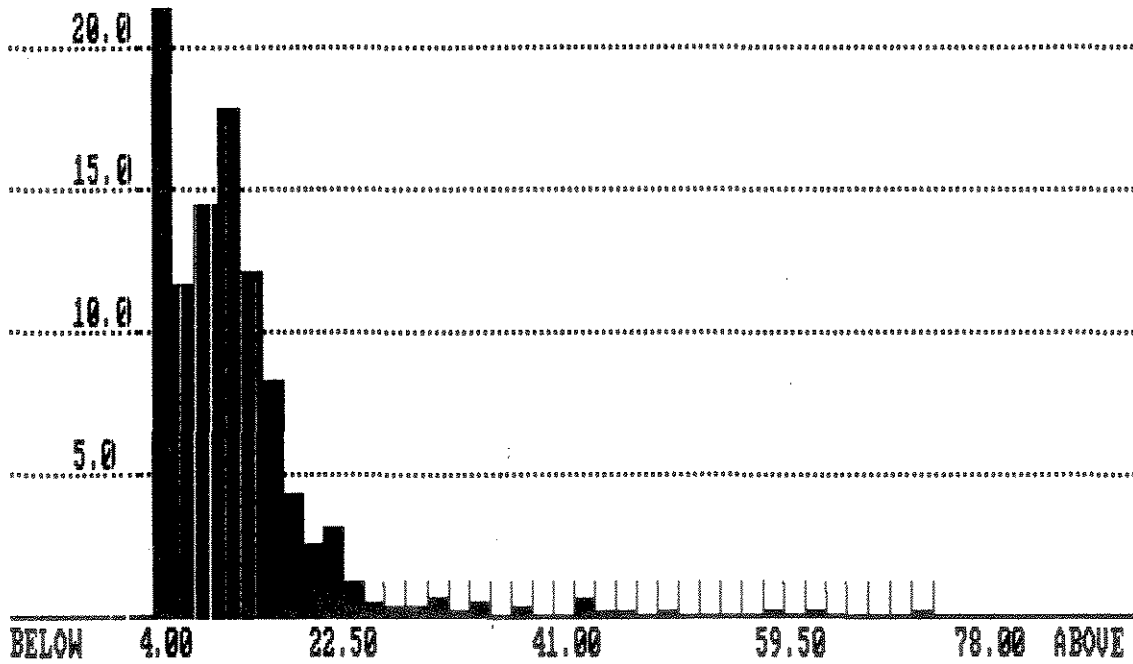
APPENDIX 'E'

STATISTICAL DATA

PERCENT OF
TOTAL

VARIABLE : PB
MINIMUM : 4.000
MAXIMUM : 76.000

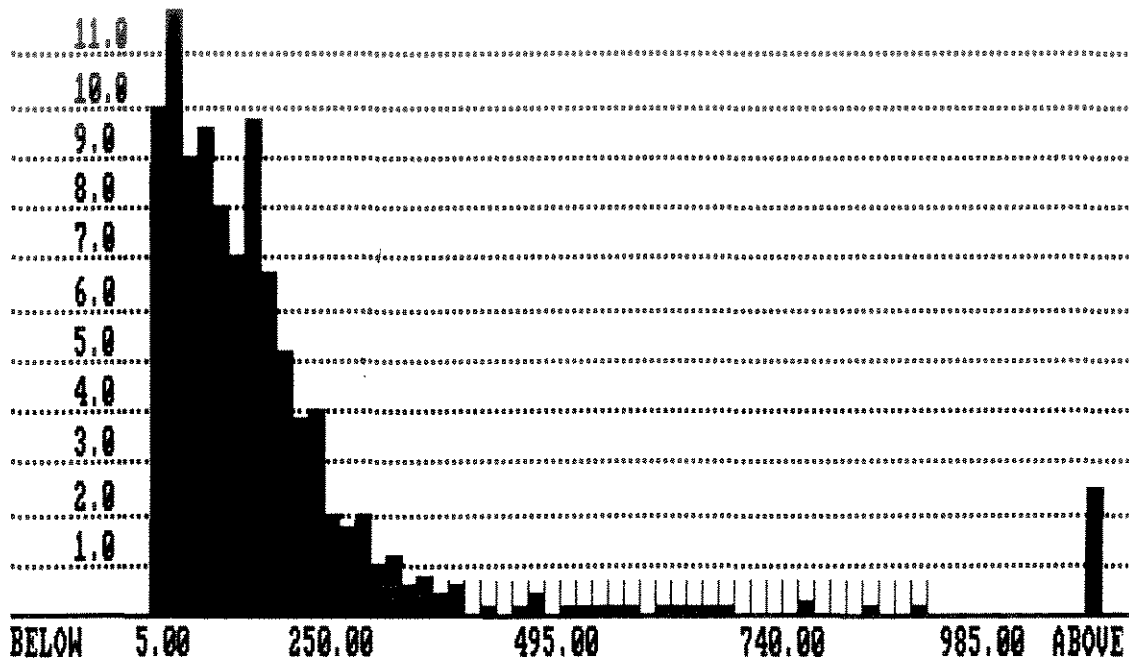
NO. OF OBSERVATIONS: 701
MEAN : 10.991
STD. DEV.: 7.602



PERCENT OF
TOTAL

VARIABLE : ZN
MINIMUM : 5.000
MAXIMUM : 2770.000

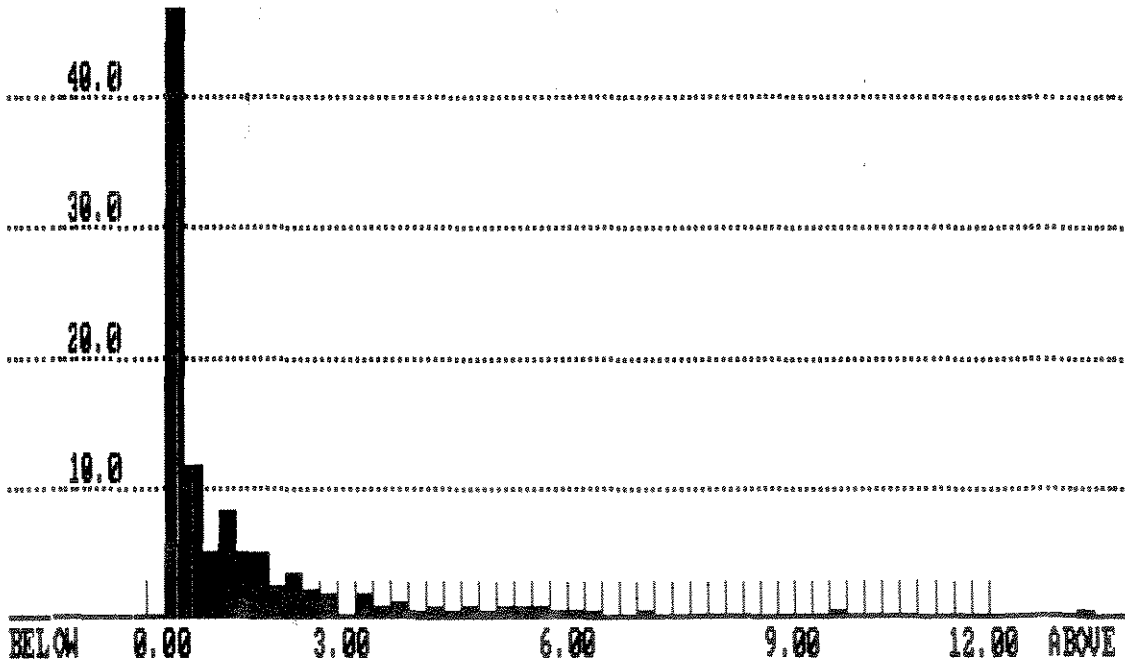
NO. OF OBSERVATIONS: 701
MEAN : 164.739
STD. DEV.: 251.150



PERCENT OF
TOTAL

VARIABLE : AG
MINIMUM : 0.400
MAXIMUM : 16.100

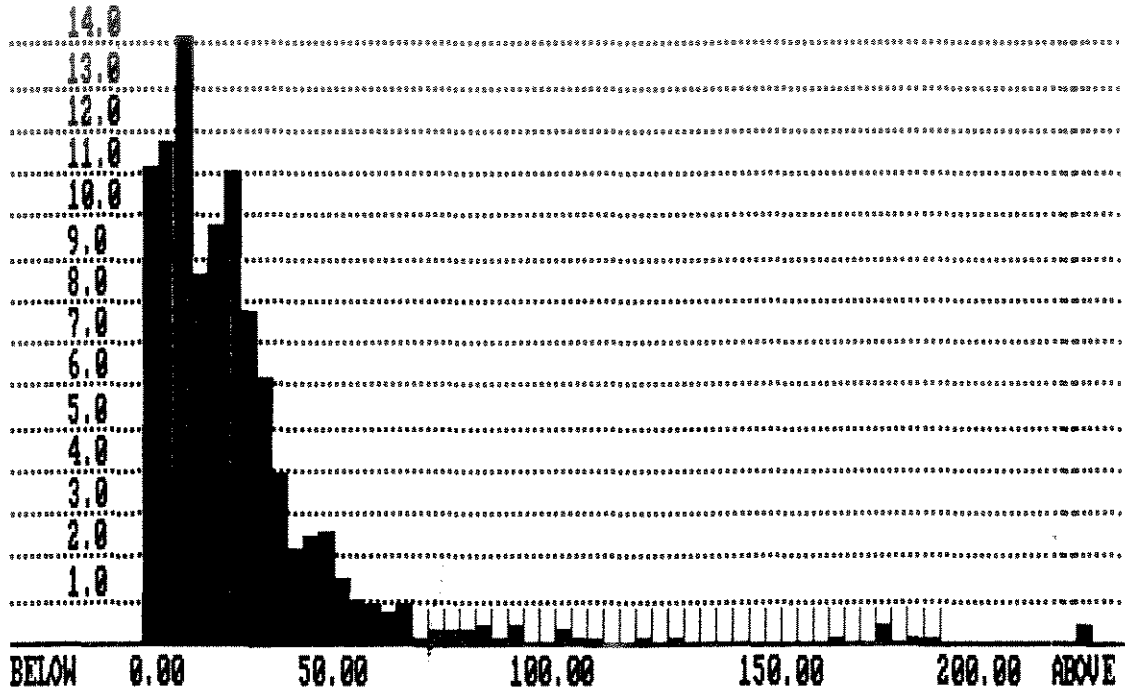
NO. OF OBSERVATIONS: 701
MEAN : 1.239
STD. DEV.: 1.634



PERCENT OF
TOTAL

VARIABLE : NI
MINIMUM : 1.000
MAXIMUM : 364.000

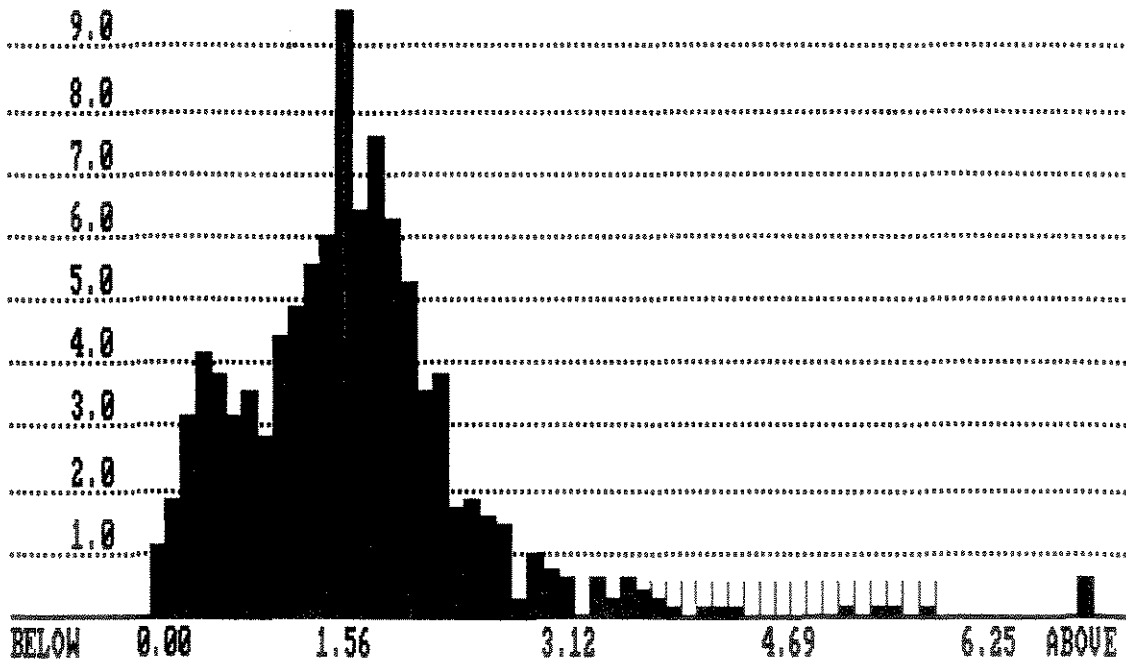
NO. OF OBSERVATIONS: 701
MEAN : 23.599
STD. DEV.: 30.237



PERCENT OF
TOTAL

VARIABLE : FE
MINIMUM : 0.010
MAXIMUM : 9.090

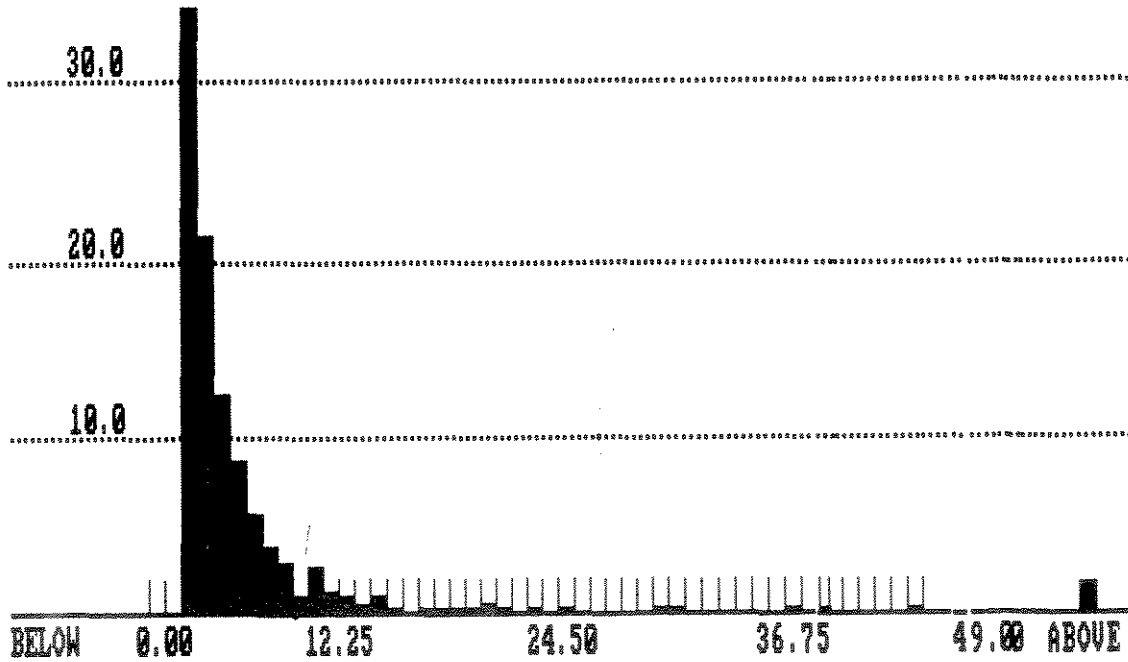
NO. OF OBSERVATIONS: 701
MEAN : 1.618
STD. DEV.: 0.966



PERCENT OF
TOTAL

VARIABLE : MO
MINIMUM : 2.000
MAXIMUM : 104.000

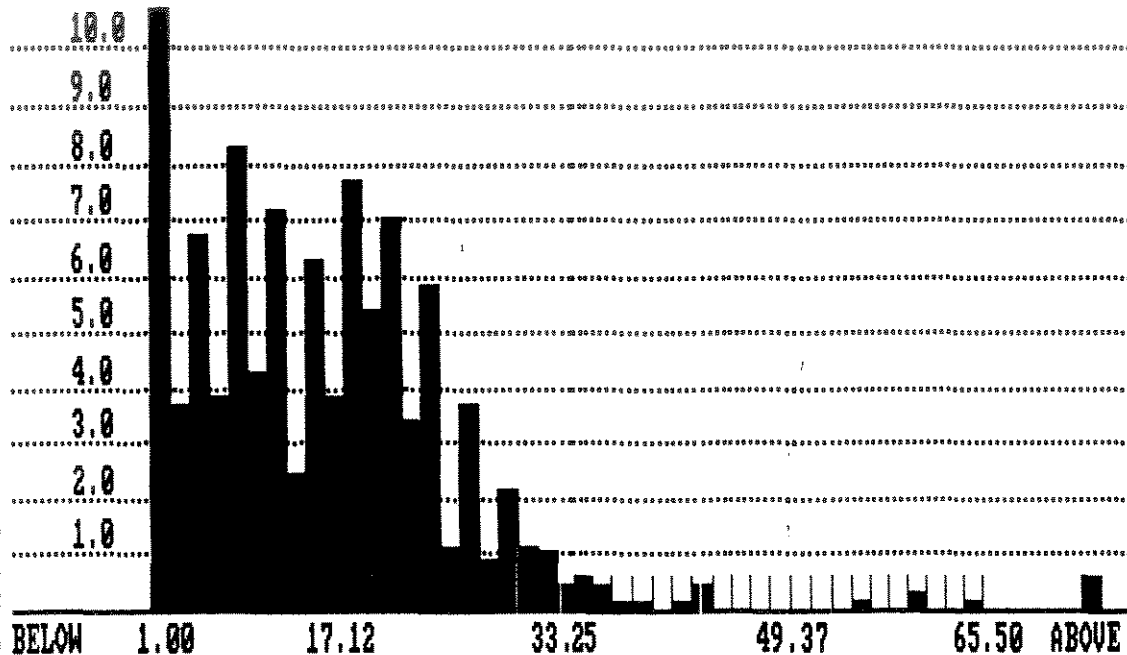
NO. OF OBSERVATIONS: 701
MEAN: 5.705
STD. DEV.: 9.682



PERCENT OF
TOTAL

VARIABLE : AS
MINIMUM : 2.000
MAXIMUM : 120.000

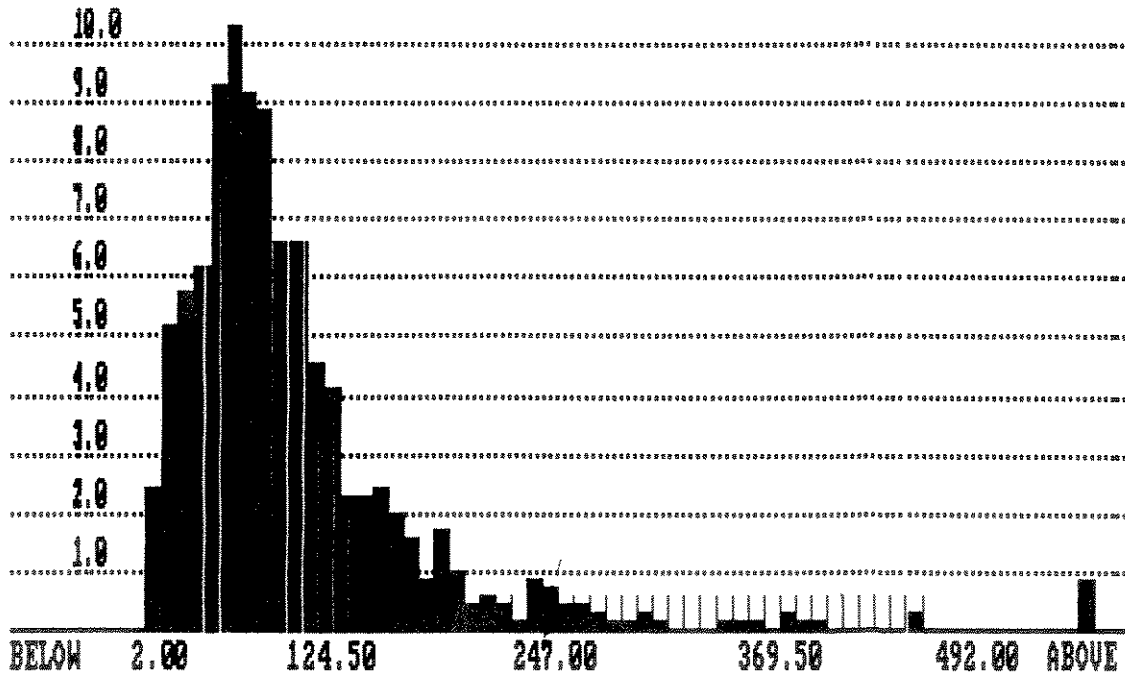
NO. OF OBSERVATIONS: 701
MEAN : 14.412
STD. DEV.: 11.291



PERCENT OF
TOTAL

VARIABLE : U
MINIMUM : 2.000
MAXIMUM : 593.000

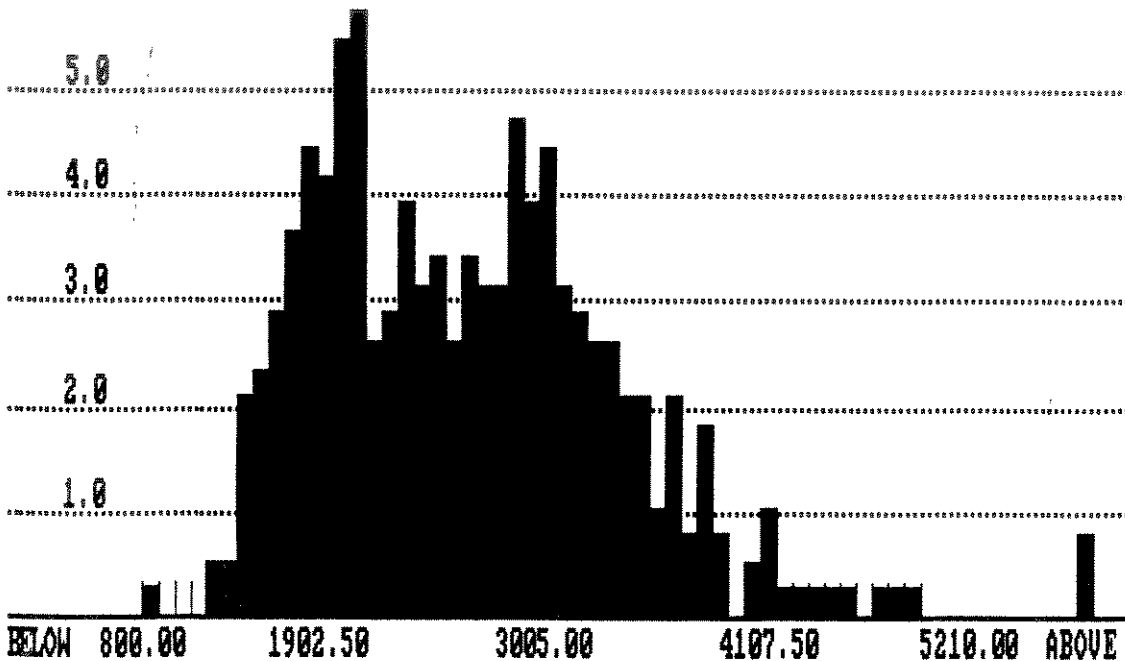
NO. OF OBSERVATIONS: 701
MEAN : 94.268
STD. DEV.: 81.562



PERCENT OF
TOTAL

VARIABLE : BA
MINIMUM : 803.000
MAXIMUM : 6513.000

NO. OF OBSERVATIONS: 382
MEAN : 2639.935
STD. DEV.: 857.084





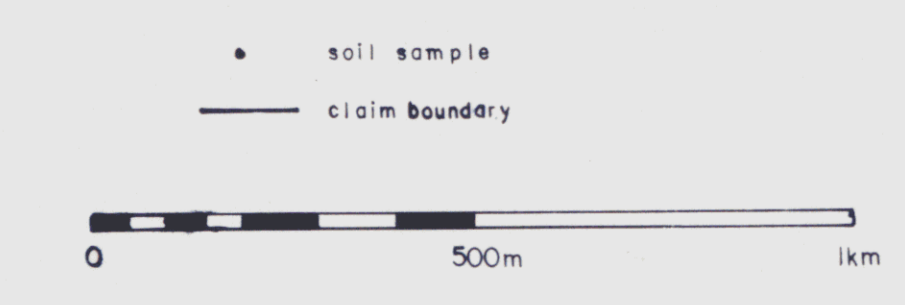
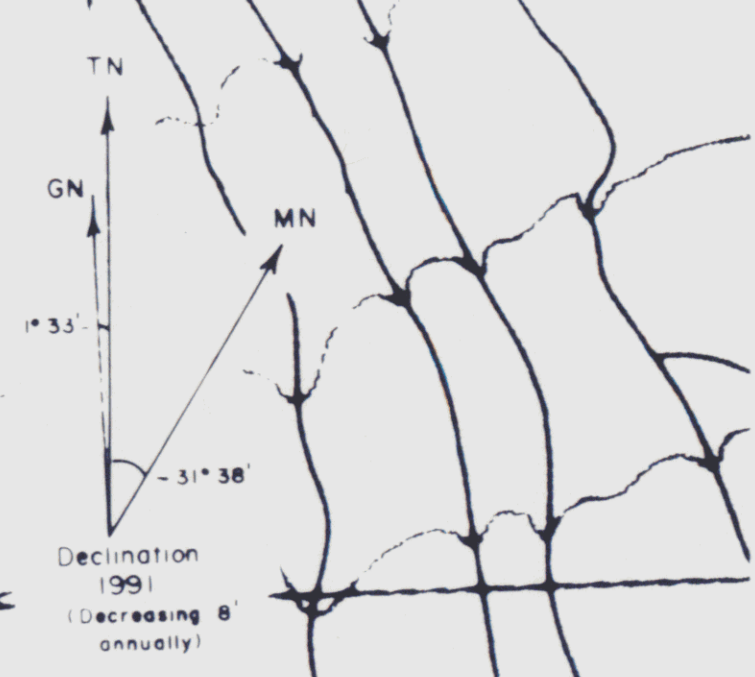
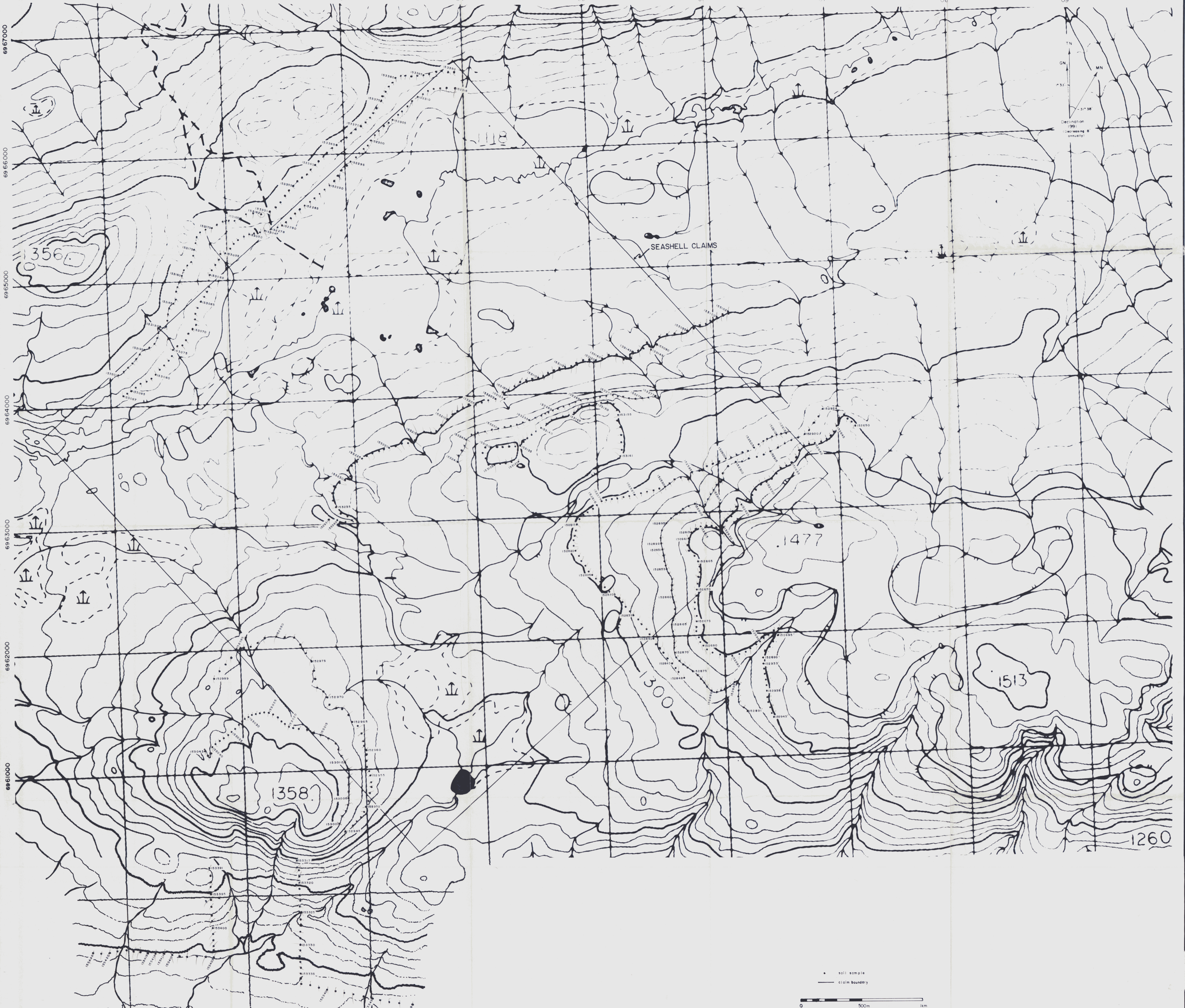
6967000
6966000
6965000
6964000
6963000
6962000
6961000
6960000

TN
GN
MN
Declination
(99)
(Decreasing @
annually)

SEASHELL Property 105J/15

Drawn by P.A.M.	Traced by G.R.B.
Revised by	Revised by

CLAIM LOCATION 329
MAP# 105²/15 092978
Scale 1:10,000 Date OCT. 91 Plate 91-1



• soil sample
 - - - claim boundary

SEASHELL PROPERTY	
Drawn by: P.J.M.	Checked by: G.R.B.
Revised to: 10/91	Revised to: 10/91
SOIL SAMPLE LOCATIONS	
MMP# 105715 (330) 092978	
Scale: 1:10,000	Date: OCT. 91
	Plate: 91-2