

GEOCHEMICAL DATA

NORMALIZED FILES

listed by ROCK CODE

January 11, 1980

015068

PQS001 GEOCHM

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NORM. GE BY SPECIFIED ROCK CODES.

01/11/80

CYPRUS ANVIL MINING CORPORATION

PAGE 1

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1863	788	1907	812
ROCK TYPE	1F 3C	1F	1F	1F
SEQUENCE NO	1001	1002	1003	1004
SI O2	48.65	54.13	48.99	50.97
TI O2	1.01	1.31	2.67	2.59
AL2 O3	16.08	15.01	15.06	13.34
FE2 O3	12.24	11.71	13.85	13.85
FE O	-.01	-.01	-.01	-.01
MN O	.16	.13	.17	.17
MG O	6.37	6.20	5.62	6.72
CA O	10.01	7.30	10.64	10.03
NA2 O	2.78	3.55	1.71	1.10
K2 O	.40	.10	.25	.15
P2 O5	.25	.15	.34	.27
S	.60	.02	.26	.18
L.O.I.	1.43	.38	.44	.62
TOTAL	99.98	99.99	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	185.00	100.00	145.00	80.00
CU	360.00	24.00	93.00	105.00
PB	44.00	28.00	48.00	14.00
ZN	122.00	106.00	105.00	119.00
CD	1.00	0.	0.	0.
AG	.60	0.	0.	0.
CR	192.00	88.00	118.00	155.00
V	262.00	175.00	320.00	260.00
CO	51.00	55.00	48.00	53.00
NI	79.00	84.00	56.00	112.00
MB	4.00	4.00	5.00	4.00
RB	24.00	6.00	9.00	5.00
SR	390.00	223.00	178.00	88.00
ZR	109.00	82.00	170.00	153.00
Y	16.00	16.00	20.00	17.00

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3519	F19771	F1173	F16331
ROCK TYPE	1F	1F	1F	1F
SEQUENCE NO	3039	3157	3158	3218
SI O2	46.86	64.68	48.83	51.51
TI O2	.62	.60	1.23	1.50
AL2 O3	11.84	8.84	12.64	15.63
FE2 O3	11.74	8.84	11.73	10.52
FE O	-.01	-.01	-.01	-.01
MN O	.13	.15	.18	.14
MG O	11.24	4.12	12.13	7.52
CA O	5.12	2.91	6.27	8.22
NA2 O	.70	.55	1.42	1.36
K2 O	3.26	1.36	.30	1.90
P2 O5	.15	.12	.22	.18
S	.25	.11	.49	.01
L.O.I.	8.08	7.72	4.57	1.49
TOTAL	99.99	100.00	100.01	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	610.00	501.00	670.00	499.00
CU	73.00	49.00	64.00	7.00
PB	24.00	10.00	440.00	20.00
ZN	206.00	48.00	390.00	97.00
CD	0.	0.	2.90	0.
AG	0.	.20	1.40	.20
CR	830.00	84.00	720.00	370.00
V	136.00	96.00	230.00	205.00
CO	60.00	33.00	60.00	46.00
NI	440.00	92.00	360.00	170.00
MB	2.00	4.00	3.00	3.00
RB	197.00	82.00	17.00	88.00
SR	118.00	86.00	164.00	164.00
ZR	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1922	1025	1917	366	1559
ROCK TYPE	3C 5C	3C	3C 5C	3C	3C
SEQUENCE NO	1005	1006	1007	1008	1009
SI O2	47.97	49.45	48.00	50.03	46.67
TI O2	1.64	1.81	1.79	1.88	3.67
AL2 O3	12.02	15.52	15.56	15.08	16.06
FE2 O3	12.12	11.71	11.45	12.08	13.55
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.18	.15	.14	.17	.14
MG O	9.70	6.21	7.13	6.79	5.42
CA O	12.12	9.81	9.54	9.09	9.54
NA2 O	2.22	3.50	4.02	2.80	3.61
K2 O	.20	.40	.05	.40	.50
P2 O5	.21	.23	.22	.18	.33
S	.13	.01	.01	.10	.25
L.O.I.	1.48	1.19	2.10	1.40	.25
TOTAL	99.99	99.99	100.01	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	150.00	130.00	102.00	235.00	100.00
CU	108.00	56.00	111.00	58.00	210.00
PB	48.00	25.00	19.00	48.00	15.00
ZN	110.00	95.00	75.00	148.00	106.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	.30
CR	420.00	165.00	305.00	280.00	20.00
V	252.00	276.00	236.00	312.00	303.00
CO	58.00	46.00	50.00	59.00	55.00
NI	144.00	56.00	112.00	80.00	29.00
MB	5.00	4.00	4.00	5.00	6.00
RB	7.00	17.00	5.00	11.00	21.00
SR	444.00	485.00	970.00	507.00	450.00
ZR	78.00	95.00	71.00	85.00	237.00
Y	10.00	14.00	11.00	26.00	32.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID 151 1552

ROCK TYPE 3C 3C

SEQUENCE NO 1010 1011

SI O2	48.39	51.49
TI O2	2.50	1.09
AL2 O3	15.10	15.47
FE2 O3	13.10	11.28
FE O	-.01	-.01
MN O	.17	.17
MG O	7.10	7.09
CA O	8.70	10.48
NA2 O	3.10	2.69
K2 O	.32	.15
P2 O5	.23	.09
S	.01	.01
L.O.I.	1.29	0.

TOTAL 100.01 100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	245.00	125.00
CU	119.00	8.00
PB	32.00	20.00
ZN	200.00	105.00
CD	0.	0.
AG	0.	0.
CR	250.00	235.00
V	490.00	156.00
CO	63.00	49.00
NI	120.00	116.00
MB	4.00	5.00
RB	14.00	12.00
SR	401.00	187.00
ZR	142.00	43.00
Y	26.00	17.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1926	921	987	887	905
ROCK TYPE	3G	3G	3G	3G	3G
SEQUENCE NO	1012	1013	1014	1015	1016
SI O2	60.95	54.28	56.95	59.50	60.66
TI O2	.58	.56	.76	.35	.81
AL2 O3	19.15	23.53	18.31	18.50	18.71
FE2 O3	7.64	9.13	13.21	9.26	8.17
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.03	.06	.14	.07	.08
MG O	2.71	2.04	2.52	1.96	2.06
CA O	.40	.25	.55	.25	.22
NA2 O	.72	1.12	1.55	.35	.65
K2 O	4.11	4.01	3.00	4.20	5.18
P2 O5	.20	.11	.10	.16	.13
S	.02	.01	.01	.02	.14
L.O.I.	3.49	4.90	2.89	5.38	3.18
TOTAL	100.00	100.00	99.99	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1080.00	961.00	670.00	2518.00	828.00
CU	12.00	23.00	24.00	70.00	26.00
PB	19.00	24.00	26.00	32.00	36.00
ZN	87.00	117.00	74.00	380.00	20.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	194.00	120.00	120.00	180.00	175.00
V	84.00	113.00	96.00	110.00	112.00
CO	23.00	37.00	38.00	24.00	19.00
NI	22.00	30.00	62.00	34.00	12.00
MB	5.00	4.00	4.00	4.00	4.00
RB	165.00	170.00	97.00	170.00	196.00
SR	110.00	126.00	94.00	60.00	94.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1898	1897	1901	1684	1166
ROCK TYPE	3G	3G	3G	3G	3G
SEQUENCE NO	1017	1018	1019	1020	1021
SI O2	58.64	55.70	59.39	59.41	58.38
TI O2	.76	1.05	.73	.77	.92
AL2 O3	19.05	19.50	18.23	19.40	20.33
FE2 O3	6.24	11.06	7.24	8.76	8.63
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.06	.14	.06	.05	.07
MG O	2.91	1.97	2.81	2.03	1.84
CA O	4.91	.88	2.20	.70	.28
NA2 O	1.70	1.31	1.25	1.10	.93
K2 O	4.29	4.32	4.34	4.02	4.26
P2 O5	.13	.15	.14	.15	.15
S	.02	.11	.06	.04	.02
L.O.I.	1.28	3.81	3.55	3.56	4.19
TOTAL	99.99	100.00	100.00	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1370.00	690.00	893.00	640.00	868.00
CU	14.00	32.00	26.00	24.00	32.00
PB	11.00	18.00	10.00	27.00	14.00
ZN	72.00	30.00	72.00	61.00	98.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	135.00	178.00	120.00	178.00	115.00
V	90.00	180.00	84.00	110.00	110.00
CO	25.00	25.00	26.00	36.00	30.00
NI	32.00	21.00	28.00	33.00	34.00
MB	4.00	4.00	3.00	5.00	4.00
RB	195.00	146.00	153.00	154.00	147.00
SR	234.00	62.00	168.00	25.00	175.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	711	706	597	844	20
ROCK TYPE	3G	3G	3G	3G 5B	3G
SEQUENCE NO	1022	1023	1024	1025	1026
SI O2	57.15	53.50	56.31	56.36	57.96
TI O2	.84	.80	.80	.93	1.06
AL2 O3	20.42	20.74	19.90	21.02	19.35
FE2 O3	7.26	9.03	7.86	8.65	10.38
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.05	.08	.10	.06	.14
MG O	2.17	2.62	2.45	2.40	1.96
CA O	2.80	4.85	7.10	.50	.85
NA2 O	1.90	2.05	1.75	1.85	1.00
K2 O	5.10	5.51	3.10	3.65	3.74
P2 O5	.11	.11	.12	.16	.18
S	.01	.04	.04	.01	.01
L.O.I.	2.19	.66	.46	4.39	3.38
TOTAL	100.00	99.99	99.99	99.98	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	750.00	848.00	560.00	728.00	970.00
CU	14.00	77.00	22.00	4.00	47.00
PB	26.00	38.00	33.00	10.00	36.00
ZN	78.00	123.00	82.00	65.00	122.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	162.00	180.00	196.00	130.00	166.00
V	115.00	110.00	125.00	147.00	160.00
CO	30.00	41.00	35.00	38.00	38.00
NI	33.00	45.00	41.00	40.00	48.00
MB	4.00	4.00	5.00	3.00	4.00
RB	181.00	253.00	118.00	127.00	145.00
SR	513.00	493.00	565.00	88.00	120.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	78-FIN-01	3083	3088	3723	3759
ROCK TYPE	3G	3G	3G	3G/D	3G
SEQUENCE NO	2043	2047	2048	2049	2050
SI O2	57.15	51.82	55.20	58.88	60.09
TI O2	.55	.65	.80	.55	.45
AL2 O3	22.06	24.72	23.96	18.16	20.10
FE2 O3	8.72	9.97	8.19	6.19	7.03
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.06	.12	.10	.06	.05
MG O	2.01	2.19	1.50	2.89	1.91
CA O	.50	.25	.25	7.98	.40
NA2 O	1.10	.55	.75	1.15	1.71
K2 O	3.71	4.78	5.19	2.89	4.02
P2 O5	.18	.22	.13	.14	.16
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	3.96	4.73	3.94	1.10	4.07
TOTAL	100.00	100.00	100.01	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	3766	5893
ROCK TYPE	3G	3G
SEQUENCE NO	2051	2052

SI O2	47.22	41.57
Ti O2	1.66	.10
AL2 O3	23.51	10.97
FE2 O3	13.46	11.07
FE O	-.01	-.01
MN O	.12	.53
MG O	4.02	7.35
CA O	.85	9.76
NA2 O	1.26	1.11
K2 O	4.82	1.46
P2 O5	.26	.27
S	-.01	-.01
L.O.I.	2.81	15.80

TOTAL	99.99	99.99
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1778	1142	1192	1329	1080
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	1028	1029	1030	1031	1032
SI O2	42.97	48.20	48.69	47.60	46.33
TI O2	1.13	1.40	1.10	1.08	1.41
AL2 O3	6.66	15.13	7.80	14.63	12.96
FE2 O3	13.31	10.42	12.80	10.42	11.06
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.16	.12	.13	.14	.17
MG O	22.59	9.52	18.99	9.32	10.45
CA O	7.26	7.92	3.95	11.83	10.35
NA2 O	.20	2.91	.20	2.61	2.31
K2 O	.03	1.35	.10	.70	1.16
P2 O5	.14	.23	.15	.16	.18
S	.03	.01	.01	.02	.05
L.O.I.	5.52	2.80	6.09	1.48	3.57
TOTAL	100.00	100.01	100.01	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	70.00	1630.00	91.00	658.00	4242.00
CU	80.00	81.00	8.00	120.00	138.00
PB	7.00	3.00	5.00	8.00	9.00
ZN	82.00	122.00	85.00	70.00	78.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	1030.00	230.00	1200.00	460.00	445.00
V	152.00	220.00	96.00	170.00	230.00
CO	88.00	50.00	86.00	56.00	56.00
NI	790.00	112.00	740.00	154.00	154.00
MB	3.00	4.00	2.00	5.00	4.00
RB	4.00	29.00	7.00	18.00	22.00
SR	69.00	372.00	23.00	650.00	208.00
ZR	60.00	117.00	37.00	46.00	82.00
Y	6.00	16.00	1.00	14.00	11.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1241	1776	1214	742	1459
ROCK TYPE	5C	5C	5C	5C 3C	5C
SEQUENCE NO	1033	1034	1035	1036	1037
SI O2	60.36	46.59	48.33	47.57	44.64
TI O2	.70	1.43	1.80	2.03	3.30
AL2 O3	13.49	10.97	13.64	13.92	16.61
FE2 O3	7.05	11.17	12.03	12.02	15.71
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.07	.14	.15	.19	.13
MG O	5.40	11.97	7.72	7.21	7.51
CA O	3.90	8.98	10.13	11.52	2.60
NA2 O	5.50	2.59	2.01	2.80	3.50
K2 O	.25	.05	1.91	.20	4.05
P2 O5	.20	.22	.28	.23	.44
S	.11	.03	.07	.05	.02
L.O.I.	2.99	5.86	1.94	2.25	1.48
TOTAL	100.02	100.00	100.01	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	248.00	85.00	1408.00	116.00	1852.00
CU	52.00	133.00	84.00	138.00	14.00
PB	8.00	2.00	10.00	28.00	5.00
ZN	55.00	93.00	103.00	96.00	98.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	165.00	1060.00	332.00	225.00	20.00
V	75.00	252.00	158.00	312.00	178.00
CO	40.00	67.00	57.00	56.00	60.00
NI	141.00	268.00	148.00	105.00	33.00
MB	5.00	4.00	4.00	4.00	3.00
RB	11.00	2.00	39.00	6.00	84.00
SR	139.00	143.00	296.00	359.00	216.00
ZR	173.00	105.00	138.00	122.00	247.00
Y	19.00	27.00	28.00	29.00	32.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1487	692	1480	758A	758B
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	1038	1039	1040	1041	1042
SI O2	47.50	50.52	43.45	43.94	45.80
TI O2	1.84	2.29	.47	.99	1.18
AL2 O3	19.94	16.84	16.28	11.31	12.63
FE2 O3	11.53	11.73	13.68	10.21	10.82
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.04	.08	.10	.15	.15
MG O	6.41	6.11	4.89	9.41	9.72
CA O	1.80	2.66	6.29	9.81	7.42
NA2 O	4.36	4.71	4.69	1.30	1.45
K2 O	2.05	1.20	.70	.10	.15
P2 O5	.70	.56	.64	.16	.15
S	.01	.04	.05	.01	.01
L.O.I.	3.80	3.27	8.74	12.60	10.51
TOTAL	99.98	100.01	99.98	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1557.00	737.00	253.00	191.00	202.00
CU	14.00	67.00	44.00	110.00	110.00
PB	4.00	18.00	2.00	114.00	142.00
ZN	75.00	66.00	67.00	106.00	114.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	10.00	15.00	15.00	610.00	660.00
V	90.00	205.00	105.00	205.00	210.00
CO	38.00	44.00	53.00	60.00	65.00
NI	6.00	2.00	25.00	252.00	264.00
MB	3.00	4.00	4.00	4.00	4.00
RB	31.00	24.00	17.00	6.00	10.00
SR	362.00	176.00	263.00	197.00	186.00
ZR	430.00	317.00	340.00	95.00	91.00
Y	32.00	41.00	27.00	21.00	20.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1497	1402	1413
ROCK TYPE	5C	5C	5C
SEQUENCE NO	1043	1044	1045
SI 02	46.78	47.08	48.42
TI 02	1.58	2.38	1.12
AL2 03	14.89	14.42	13.83
FE2 03	10.80	10.62	14.34
FE 0	-.01	-.01	-.01
MN 0	.15	.13	.17
MG 0	6.20	8.61	6.22
CA 0	11.40	11.02	5.51
NA2 0	3.45	2.90	2.91
K2 0	.05	.10	.10
P2 05	.21	.32	.26
S	.07	.03	.02
L.O.I.	4.43	2.37	7.10
TOTAL	100.01	99.98	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	141.00	118.00	218.00
CU	126.00	580.00	105.00
PB	38.00	12.00	4.00
ZN	99.00	60.00	80.00
CD	0.	0.	0.
AG	0.	0.	0.
CR	140.00	140.00	68.00
V	207.00	267.00	270.00
CO	47.00	54.00	56.00
NI	85.00	93.00	62.00
MB	5.00	5.00	4.00
RB	7.00	0.	5.00
SR	662.00	3000.00	266.00
ZR	80.00	26.00	130.00
Y	23.00	24.00	6.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4228A	4228B	5531	5556	5564
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	2001	2002	2003	2004	2005
SI 02	46.44	47.50	46.73	55.81	44.79
TI 02	1.20	1.21	4.69	.20	2.20
AL2 03	15.35	14.96	15.38	20.53	18.54
FE2 03	3.69	3.16	4.99	3.84	3.61
FE 0	8.57	8.39	9.49	2.04	8.92
MN 0	.15	.14	.21	.08	.16
MG 0	7.97	8.24	5.59	3.99	4.21
CA 0	7.37	7.53	4.79	1.99	6.21
NA2 0	3.89	3.72	3.99	4.98	5.36
K2 0	.55	.50	.25	2.19	.40
P2 05	.25	.23	.58	.16	.45
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	4.58	4.42	3.30	4.19	5.16
TOTAL	100.01	100.00	99.99	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	120.00	125.00	260.00	145.00	175.00
Y	0.	0.	16.00	11.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	5596	5689	5882	76X-11-1	5905
ROCK TYPE	SCU	SCG	5C	5C	5C
SEQUENCE NO	2006	2007	2008	2039	2089
SI O2	46.76	39.51	55.84	51.26	43.49
TI O2	3.18	4.45	.90	.15	3.79
AL2 O3	12.93	11.30	17.35	17.49	13.96
FE2 O3	4.68	4.90	3.59	1.00	17.95
FE O	9.85	11.60	6.03	5.15	-.01
MN O	.19	.22	.08	.05	.17
MG O	4.78	6.35	3.99	3.10	5.29
CA O	6.96	8.00	1.75	7.99	4.99
NA2 O	3.48	3.10	2.99	1.30	3.99
K2 O	.20	.35	1.94	3.40	.95
P2 O5	.47	.36	.30	.12	.69
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	6.52	9.85	5.24	8.99	4.74
TOTAL	100.00	99.99	100.00	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	175.00	145.00	185.00	150.00	-.01
Y	6.00	0.	13.00	11.00	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1739	1720
ROCK TYPE	5F	5F
SEQUENCE NO	1046	1047

SI 02	45.21	39.94
TI 02	2.75	.82
AL2 03	16.96	11.51
FE2 03	13.17	12.01
FE 0	-.01	-.01
MN 0	.14	.15
MG 0	6.09	8.71
CA 0	5.99	12.31
NA2 0	4.09	.28
K2 0	.06	.15
P2 05	.45	.21
S	.04	.01
L.O.I.	5.05	13.90

TOTAL	100.00	100.00
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TRACE ELEMENT CHEMISTRY (PPM)

BA	160.00	115.00
CU	24.00	66.00
PB	7.00	22.00
ZN	103.00	126.00
CD	0.	0.
AG	0.	0.
CR	38.00	375.00
V	132.00	193.00
CO	55.00	52.00
NI	43.00	244.00
MB	3.00	3.00
RB	4.00	5.00
SR	275.00	258.00
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1129	1135	1912	1138	1481
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	1048	1049	1050	1051	1052
SI O2	46.28	44.49	45.39	48.45	51.13
TI O2	2.33	.48	2.52	1.08	1.35
AL2 O3	14.33	13.76	16.59	18.96	17.24
FE2 O3	13.22	12.45	16.28	11.44	11.33
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.16	.13	.08	.02	.02
MG O	8.82	8.34	8.14	3.06	7.42
CA O	5.61	8.23	1.68	5.42	1.05
NA2 O	3.61	2.56	4.58	.33	4.11
K2 O	.85	.05	.28	3.56	.80
P2 O5	.28	.37	.37	.46	.43
S	.02	.09	.83	.04	.03
L.O.I.	4.49	9.05	3.24	7.18	5.08
TOTAL	100.00	100.00	99.98	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1953.00	146.00	1160.00	706.00	2928.00
CU	66.00	52.00	144.00	52.00	13.00
PB	6.00	10.00	20.00	10.00	25.00
ZN	94.00	97.00	82.00	68.00	78.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	190.00	240.00	90.00	130.00	20.00
V	290.00	200.00	288.00	182.00	220.00
CO	46.00	62.00	64.00	57.00	38.00
NI	68.00	182.00	72.00	96.00	22.00
MB	3.00	4.00	4.00	4.00	3.00
RB	15.00	5.00	3.00	48.00	17.00
SR	214.00	197.00	74.00	39.00	45.00
ZR	160.00	195.00	222.00	442.00	365.00
Y	15.00	14.00	14.00	26.00	36.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1458	1505	1617	830
ROCK TYPE	MCV	MCV	MCV	MCV 56
SEQUENCE NO	1053	1054	1055	1056
SI 02	44.96	45.86	49.44	44.77
TI 02	1.04	1.15	2.58	1.48
AL2 03	14.35	14.12	12.61	16.12
FE2 03	11.54	13.92	12.61	14.42
FE 0	-.01	-.01	-.01	-.01
MN 0	.08	.12	.15	.09
MG 0	4.82	6.01	6.00	7.61
CA 0	8.63	6.81	8.81	4.43
NA2 0	4.92	3.25	4.10	3.81
K2 0	.45	.45	.50	1.25
P2 05	.27	.30	.29	.81
S	.13	.06	.02	.06
L.O.I.	8.80	7.95	2.88	5.15
TOTAL	99.99	100.00	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	931.00	2627.00	600.00	515.00
CU	117.00	145.00	100.00	53.00
PB	9.00	8.00	10.00	4.00
ZN	90.00	144.00	110.00	75.00
CD	0.	0.	0.	0.
AG	0.	0.	0.	0.
CR	215.00	65.00	185.00	10.00
V	275.00	285.00	193.00	150.00
CO	54.00	52.00	52.00	53.00
NI	125.00	47.00	98.00	13.00
MB	4.00	4.00	4.00	3.00
RB	12.00	9.00	9.00	19.00
SR	282.00	264.00	333.00	506.00
ZR	156.00	175.00	188.00	241.00
Y	27.00	31.00	27.00	21.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4197	4198	4219	4474	4505
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2016	2017	2018	2020	2021
S1 02	47.33	48.48	45.02	45.19	47.38
T1 02	1.55	2.31	1.20	1.65	2.40
AL2 03	16.48	14.25	12.85	17.50	14.79
FE2 03	2.60	2.46	2.59	2.90	3.15
FE 0	7.09	9.03	8.22	8.00	9.50
MN 0	.15	.20	.15	.14	.11
MG 0	6.29	7.43	7.17	8.80	4.70
CA 0	9.99	7.83	12.45	3.20	6.80
NA2 0	2.80	3.86	4.18	4.30	4.00
K2 0	2.60	.50	.10	.45	.25
P2 05	.24	.37	.31	.58	.44
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	2.90	3.26	5.78	7.30	6.50
TOTAL	100.02	99.98	100.02	100.01	100.02

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	94.00	160.00	120.00	115.00	185.00
Y	0.	0.	0.	0.	5.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4506	4648	4663	4692	4955
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2022	2023	2024	2025	2026
SI 02	48.00	46.47	46.42	44.07	38.74
TI 02	3.40	1.50	2.65	2.50	1.56
AL2 03	14.70	15.39	15.07	12.82	9.33
FE2 03	1.80	1.70	4.89	3.00	2.31
FE 0	10.00	8.74	8.98	8.36	8.33
MN 0	.15	.15	.18	.14	.11
MG 0	5.60	9.19	5.09	5.81	12.64
CA 0	8.40	8.29	9.18	9.81	9.03
NA2 0	3.80	3.30	2.20	4.21	.90
K2 0	1.30	1.60	0.	.65	.50
P2 05	.46	.27	.39	.41	.29
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	2.40	3.40	4.94	8.21	16.26
TOTAL	100.01	100.00	99.99	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	190.00	135.00	160.00	175.00	145.00
Y	10.00	0.	6.00	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4957	5009	5329	5535	5549
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2027	2090	2091	2092	2093
SI 02	45.69	46.86	44.41	47.55	42.33
TI 02	3.71	2.79	3.99	3.90	.60
AL2 03	16.23	14.96	14.37	14.21	10.21
FE2 03	5.01	5.43	6.69	4.70	2.30
FE 0	8.62	7.18	7.98	8.61	8.11
MN 0	.15	.18	.17	.15	.20
MG 0	5.11	5.58	5.49	5.61	23.22
CA 0	5.81	9.47	6.39	7.51	8.11
NA2 0	4.51	1.60	3.89	3.00	.35
K2 0	.50	.10	1.00	.95	.15
P2 05	.56	.41	.58	.50	.38
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	4.11	5.43	5.04	3.30	4.05
TOTAL	100.01	99.99	100.00	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	245.00	180.00	240.00	220.00	105.00
Y	17.00	0.	15.00	12.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	5573	5623	5764	5794	6331
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2094	2095	2096	2097	2098
SI O2	37.60	46.28	48.30	40.77	45.62
TI O2	2.00	1.51	.90	3.16	2.57
AL2 O3	14.50	13.65	15.03	13.05	15.41
FE2 O3	1.85	4.02	3.41	2.61	2.17
FE O	6.95	4.42	9.02	8.38	10.27
MN O	.14	.12	.12	.08	.14
MG O	7.90	7.63	6.71	4.82	11.28
CA O	9.40	14.56	5.11	7.53	2.32
NA2 O	1.80	.50	3.81	.95	2.72
K2 O	3.35	3.81	.15	5.72	.15
P2 O5	.42	.70	.38	.56	.41
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	14.10	2.81	7.06	12.35	6.95
TOTAL	100.01	100.01	100.00	99.98	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	175.00	180.00	175.00	250.00	180.00
Y	0.	6.00	0.	8.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	C7902	C7903	C7907	C7904	C7905
ROCK TYPE	STDMRG-1	STDMRG-1	STDMRG-1	STDMRG-1	STDMRG-1
SEQUENCE NO	2019	2029	2040	2099	2108
SI 02	39.28	38.74	39.06	39.02	38.44
TI 02	3.81	4.02	4.43	4.03	3.99
AL2 03	8.42	8.65	8.46	8.47	8.59
FE2 03	9.02	8.65	8.76	8.77	8.79
FE 0	8.47	8.30	8.56	8.57	8.24
MN 0	.17	.17	.18	.17	.17
MG 0	13.83	14.19	13.29	14.02	13.78
CA 0	14.73	15.19	14.90	14.82	14.78
NA2 0	.80	.80	.81	.71	.80
K2 0	.20	.20	.25	.20	.20
P2 05	.12	.06	.06	.10	.13
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	1.15	1.01	1.26	1.11	2.10
TOTAL	100.00	99.98	100.02	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	115.00	117.00	113.00	119.00	111.00
Y	0.	0.	0.	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID C7906

ROCK TYPE STDMRG-1

SEQUENCE NO 2117

SI 02	39.37
TI 02	4.02
AL2 O3	8.94
FE2 O3	8.84
FE O	8.29
MN O	.18
MG O	13.26
CA O	14.66
NA2 O	.85
K2 O	.25
P2 O5	.13
S	-.01
L.O.I.	1.21

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	115.00
Y	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	C1128	C1169	C1182	C15789
ROCK TYPE	STDMRG-1	STDMRG-1	STDMRG-1	STDMRG-1
SEQUENCE NO	3095	3125	3167	3215
SI 02	39.17	38.99	39.42	39.87
TI 02	3.60	3.51	3.56	3.39
AL2 03	8.19	8.62	8.30	8.77
FE2 03	16.99	18.04	18.21	17.54
FE 0	-.01	-.01	-.01	-.01
MN 0	.17	.15	.17	.17
MG 0	13.49	13.43	13.51	12.96
CA 0	14.99	13.83	13.71	13.76
NA2 0	.71	.84	.82	.78
K2 0	.15	.20	.20	.20
P2 05	.04	.18	.10	.07
S	.06	.06	.05	.06
L.O.I.	2.44	2.14	1.95	2.43
TOTAL	100.00	99.99	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	165.00	158.00	136.00	225.00
CU	130.00	140.00	135.00	141.00
PB	8.00	8.00	8.00	8.00
ZN	170.00	160.00	160.00	180.00
CD	0.	0.	0.	0.
AG	.20	.20	.20	.20
CR	390.00	380.00	380.00	390.00
V	560.00	580.00	520.00	470.00
CO	78.00	75.00	88.00	72.00
NI	160.00	148.00	190.00	160.00
MB	3.00	4.00	4.00	3.00
RB	12.00	11.00	8.00	7.00
SR	188.00	187.00	195.00	184.00
ZR	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 4974

ROCK TYPE UNK

SEQUENCE NO 2028

SI 02	70.88
TI 02	.20
AL2 03	17.07
FE2 03	.60
FE 0	1.41
MN 0	.03
MG 0	1.25
CA 0	2.01
NA2 0	.50
K2 0	2.41
P2 05	.13
S	-.01
L.O.I.	3.51

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
KB	-.01
SR	-.01
ZR	160.00
Y	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4327	4762	4768	4324F	3469
ROCK TYPE	KSMB	KSMB	KSMB	KSE	KSE
SEQUENCE NO	2030	2031	2032	2033	2085
SI 02	46.84	46.11	69.24	48.57	48.65
TI 02	1.49	1.60	.70	2.40	.75
AL2 03	18.44	16.67	11.46	14.22	14.27
FE2 03	6.68	6.14	3.44	3.71	14.07
FE 0	4.09	4.64	3.09	16.32	-.01
MN 0	.18	.18	.14	.26	.18
MG 0	4.58	5.89	2.19	3.81	6.73
CA 0	10.66	11.28	3.64	8.11	11.26
NA2 0	3.04	2.99	1.64	1.70	2.81
K2 0	.85	.45	1.74	.15	.55
P2 05	.17	.17	.19	.55	.06
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	2.99	3.89	2.54	.20	.65
TOTAL	100.01	100.01	100.01	100.00	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	110.00	115.00	125.00	310.00	-.01
Y	7.00	0.	0.	75.00	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	2323	3465	3500
ROCK TYPE	KSMB	KSMB	KSMB
SEQUENCE NO	2118	2119	2120

SI 02	51.01	50.85	53.80
TI 02	1.81	1.00	.95
AL2 03	15.36	16.15	16.03
FE2 03	3.46	2.61	3.31
FE 0	7.23	6.72	7.21
MN 0	.18	.17	.18
MG 0	6.73	6.12	4.51
CA 0	8.34	7.12	6.01
NA2 0	2.26	3.66	4.26
K2 0	.95	2.26	1.25
P2 05	.40	.18	.18
S	-.01	-.01	-.01
L.O.I.	2.26	3.16	2.30

TOTAL	99.99	100.00	99.99
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01
CU	-.01	-.01	-.01
PB	-.01	-.01	-.01
ZN	-.01	-.01	-.01
CD	-.01	-.01	-.01
AG	-.01	-.01	-.01
CR	-.01	-.01	-.01
V	-.01	-.01	-.01
CO	-.01	-.01	-.01
NI	-.01	-.01	-.01
MB	-.01	-.01	-.01
RB	-.01	-.01	-.01
SR	-.01	-.01	-.01
ZR	110.00	91.00	82.00
Y	0.	8.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-08	77X-05	78X-04	78X-03
ROCK TYPE	5D	5D	5D	5D
SEQUENCE NO	2034	2035	2037	2038
SI 02	46.92	44.92	58.52	49.44
TI 02	.20	.45	.15	1.35
AL2 03	13.87	14.84	18.07	15.21
FE2 03	2.46	2.11	1.46	2.55
FE 0	7.89	8.72	5.17	6.56
MN 0	.15	.20	.08	.11
MG 0	7.13	7.02	2.81	5.00
CA 0	8.64	8.22	3.06	7.61
NA2 0	2.51	.60	1.81	1.60
K2 0	.30	2.31	3.71	2.35
P2 05	.28	.39	.15	.36
S	-.01	-.01	-.01	-.01
L.O.I.	9.65	10.23	5.02	7.86
TOTAL	100.00	100.01	100.01	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01
ZR	145.00	175.00	185.00	155.00
Y	0.	11.00	21.00	9.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77LA-02	78-FAT-01	2505	3448
ROCK TYPE	1C	1C	1C	1C
SEQUENCE NO	2041	2042	2044	2045
SI 02	56.56	56.29	62.94	55.46
TI 02	.90	.90	1.01	1.40
AL2 03	22.45	22.80	15.68	23.68
FE2 03	9.08	8.30	9.50	8.29
FE 0	-.01	-.01	-.01	-.01
MN 0	.26	.06	.12	.04
MG 0	2.00	2.00	2.01	2.50
CA 0	.80	.60	1.21	.50
NA2 0	1.50	1.05	2.31	3.30
K2 0	3.59	4.40	2.71	2.50
P2 05	.18	.20	.44	.18
S	-.01	-.01	-.01	-.01
L.O.I.	2.69	3.40	2.06	2.15
TOTAL	100.01	100.00	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3511	F3525	F3270	F3271	F3272
ROCK TYPE	1C	1C6	1C6	1C6	1C6
SEQUENCE NO	3038	3040	3054	3055	3056
SI 02	55.90	54.67	55.42	62.08	56.76
TI 02	.84	.75	.49	.47	.54
AL2 03	19.81	19.92	18.10	16.33	20.26
FE2 03	10.31	9.63	11.63	9.05	8.83
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.20	.05	.04	.04
MG 0	1.92	1.88	2.43	2.14	2.22
CA 0	.71	.95	.53	.42	.54
NA2 0	.61	.55	.46	.28	.42
K2 0	4.30	3.20	3.29	3.23	4.74
P2 05	.09	.13	.13	.11	.19
S	.54	.26	.97	.70	.68
L.O.I.	4.92	7.85	6.51	5.15	4.77
TOTAL	100.01	99.99	100.01	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	752.00	830.00	916.00	656.00	831.00
CU	154.00	40.00	116.00	132.00	176.00
PB	18.00	16.00	28.00	28.00	29.00
ZN	52.00	85.00	40.00	42.00	55.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	.60
CR	175.00	160.00	125.00	158.00	122.00
V	117.00	93.00	98.00	93.00	108.00
CO	43.00	33.00	47.00	37.00	33.00
NI	44.00	36.00	34.00	46.00	35.00
MB	3.00	3.00	5.00	4.00	4.00
RB	175.00	141.00	132.00	145.00	177.00
SR	51.00	94.00	38.00	23.00	30.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3274	F3276	F3277	F3279	F3280
ROCK TYPE	1C6	1C6	1C6	1C6	1C6
SEQUENCE NO	3058	3060	3061	3063	3064
SI O2	55.83	55.23	59.14	56.22	57.85
TI O2	.67	.57	.64	.75	.73
AL2 O3	19.93	20.96	17.20	20.75	20.16
FE2 O3	9.97	8.58	8.97	9.01	9.18
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.04	.05	.06	.04	.04
MG O	2.43	2.90	4.12	2.78	2.38
CA O	.52	.66	.72	.41	.36
NA2 O	.37	.40	.30	.28	.31
K2 O	4.85	4.89	4.12	4.74	4.79
P2 O5	.13	.11	.09	.09	.13
S	.91	.51	.55	.41	.52
L.O.I.	4.35	5.13	4.07	4.52	3.55
TOTAL	100.00	99.99	99.98	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	834.00	996.00	752.00	866.00	752.00
CU	116.00	290.00	224.00	62.00	102.00
PB	34.00	104.00	109.00	105.00	30.00
ZN	53.00	214.00	220.00	94.00	50.00
CD	0.	.90	0.	0.	0.
AG	0.	.90	.40	1.00	0.
CR	108.00	110.00	132.00	117.00	117.00
V	102.00	91.00	112.00	120.00	106.00
CO	35.00	37.00	38.00	28.00	33.00
NI	35.00	40.00	48.00	36.00	30.00
MB	5.00	4.00	4.00	3.00	3.00
RB	175.00	186.00	175.00	178.00	181.00
SR	25.00	28.00	22.00	27.00	23.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3281	F3282	F3284	F3289	F3290
ROCK TYPE	1C6	1C6	1C6	1C6	1C6
SEQUENCE NO	3065	3066	3068	3073	3074
SI 02	57.86	60.77	54.55	57.94	56.60
TI 02	.66	.60	.71	.67	.82
AL2 03	19.55	16.46	20.28	18.44	19.00
FE2 03	9.70	10.87	10.54	10.38	11.26
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.04	.05	.06	.04	.08
MG 0	2.34	2.56	3.00	2.48	2.45
CA 0	.32	.33	.59	.40	.42
NA2 0	.35	.27	.29	.29	.20
K2 0	5.04	3.81	4.82	4.33	3.82
P2 05	.11	.11	.09	.09	.11
S	.55	.84	.64	.76	.66
L.O.I.	3.48	3.32	4.43	4.18	4.56
TOTAL	100.00	99.99	100.00	100.00	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	900.00	600.00	824.00	820.00	912.00
CU	200.00	260.00	60.00	158.00	230.00
PB	34.00	28.00	27.00	25.00	36.00
ZN	51.00	80.00	47.00	39.00	132.00
CD	0.	0.	0.	0.	.50
AG	.30	.30	0.	0.	1.10
CR	112.00	118.00	115.00	108.00	110.00
V	106.00	92.00	108.00	93.00	98.00
CO	34.00	38.00	29.00	34.00	39.00
NI	34.00	36.00	34.00	35.00	35.00
MB	3.00	4.00	5.00	3.00	3.00
RB	170.00	138.00	191.00	156.00	162.00
SR	23.00	13.00	25.00	25.00	25.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3291	F3292	F3294	F3298	F3412
ROCK TYPE	1C6	1C6	1C6	1C5	1C5
SEQUENCE NO	3075	3076	3077	3079	3082
SI 02	56.96	56.39	54.09	56.40	56.80
TI 02	.61	.55	.61	.63	1.08
AL2 O3	18.28	17.89	19.43	17.56	17.19
FE2 O3	10.25	10.45	10.72	12.31	9.79
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.06	.06	.06	.06	.10
MG O	2.31	2.33	2.28	2.54	2.25
CA O	.60	.55	.89	.70	1.31
NA2 O	.22	.23	.21	.22	.78
K2 O	3.67	3.42	3.81	3.94	3.37
P2 O5	.10	.08	.09	.10	.29
S	.42	1.11	.66	.62	.46
L.O.I.	6.51	6.94	7.15	4.93	6.57
TOTAL	99.99	100.00	100.00	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	756.00	753.00	742.00	703.00	1281.00
CU	220.00	240.00	210.00	184.00	93.00
PB	46.00	62.00	29.00	15.00	28.00
ZN	132.00	76.00	61.00	112.00	89.00
CD	.40	0.	0.	0.	0.
AG	1.00	.80	.70	0.	.40
CR	105.00	126.00	108.00	103.00	90.00
V	95.00	100.00	90.00	100.00	130.00
CO	38.00	52.00	40.00	43.00	46.00
NI	36.00	44.00	34.00	39.00	38.00
MB	4.00	11.00	3.00	4.00	4.00
RB	137.00	133.00	142.00	157.00	159.00
SR	29.00	31.00	42.00	25.00	60.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3435	F1125	F1126	F1127	F19751
ROCK TYPE	1C6	1C	1C	1C	1C
SEQUENCE NO	3083	3092	3093	3094	3155
SI 02	54.44	55.65	56.96	55.22	55.53
TI 02	.53	.36	.29	.53	.49
AL2 03	18.59	20.03	19.62	22.57	19.31
FE2 03	9.74	9.59	8.35	7.49	8.53
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.04	.10	.08	.03	.06
MG 0	2.00	.99	1.56	2.04	2.21
CA 0	.91	.25	.30	.34	1.01
NA2 0	.45	.32	.32	.38	.35
K2 0	3.84	5.46	4.80	4.64	3.72
P2 05	.17	.15	.11	.11	.13
S	.45	4.92	2.40	.67	.36
L.O.I.	8.84	2.17	5.21	5.99	8.29
TOTAL	100.00	99.99	100.00	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	766.00	1480.00	1032.00	1030.00	1202.00
CU	60.00	460.00	780.00	130.00	32.00
PB	14.00	290.00	920.00	30.00	10.00
ZN	44.00	208.00	104.00	49.00	63.00
CD	0.	.30	0.	0.	0.
AG	0.	2.00	5.70	.20	.20
CR	75.00	43.00	64.00	75.00	80.00
V	110.00	88.00	92.00	95.00	112.00
CO	34.00	28.00	26.00	27.00	31.00
NI	35.00	38.00	37.00	37.00	40.00
MB	3.00	3.00	4.00	3.00	4.00
RB	173.00	204.00	194.00	206.00	146.00
SR	49.00	32.00	28.00	39.00	45.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19760	F16305	F16325
ROCK TYPE	1C	1C	1C
SEQUENCE NO	3156	3216	3217
SI 02	55.68	56.84	59.19
TI 02	.66	.75	.84
AL2 03	20.49	19.45	18.23
FE2 03	8.05	9.27	8.49
FE 0	-.01	-.01	-.01
MN 0	.04	.16	.07
MG 0	2.14	2.04	2.06
CA 0	1.13	.58	1.42
NA2 0	.32	1.05	2.00
K2 0	4.35	4.51	3.51
P2 05	.15	.13	.18
S	.45	.09	.02
L.O.I.	6.55	5.12	3.99
TOTAL	100.01	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	926.00	808.00	746.00
CU	69.00	16.00	10.00
PB	17.00	10.00	18.00
ZN	64.00	58.00	59.00
CD	0.	0.	0.
AG	.20	.20	.20
CR	85.00	95.00	84.00
V	115.00	115.00	125.00
CO	30.00	31.00	32.00
NI	40.00	38.00	40.00
MB	3.00	3.00	3.00
RB	149.00	180.00	152.00
SR	44.00	71.00	75.00
ZR	-.01	-.01	-.01
Y	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 2942

ROCK TYPE 3E

SEQUENCE NO 2046

SI 02	85.72
TI 02	.10
AL2 03	7.53
FE2 03	.85
FE 0	-.01
MN 0	.01
MG 0	.30
CA 0	.20
NA2 0	.20
K2 0	1.71
P2 05	.17
S	-.01
L.O.I.	3.21

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	C7908	C7909	C7910
ROCK TYPE	STD SY-2	STD SY-2	STD SY-2
SEQUENCE NO	2053	2067	2079
SI 02	59.19	59.48	59.22
TI 02	.10	.15	.10
AL2 03	11.82	12.32	12.06
FE2 03	6.89	7.01	7.13
FE 0	-.01	-.01	-.01
MN 0	.32	.32	.27
MG 0	2.46	2.55	2.54
CA 0	8.67	8.41	8.47
NA2 0	4.23	4.01	4.44
K2 0	4.63	4.31	4.29
P2 05	.51	.50	.48
S	-.01	-.01	-.01
L.O.I.	1.18	.95	1.00
TOTAL	100.00	100.01	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01
CU	-.01	-.01	-.01
PB	-.01	-.01	-.01
ZN	-.01	-.01	-.01
CD	-.01	-.01	-.01
AG	-.01	-.01	-.01
CR	-.01	-.01	-.01
V	-.01	-.01	-.01
CO	-.01	-.01	-.01
NI	-.01	-.01	-.01
MB	-.01	-.01	-.01
RB	-.01	-.01	-.01
SR	-.01	-.01	-.01
ZR	-.01	-.01	-.01
Y	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	C1115	C1234	C1183
ROCK TYPE	STD SY-2	STD SY-2	STD SY-2
SEQUENCE NO	3084	3138	3182
SI 02	60.22	59.94	59.82
TI 02	.12	.13	.14
AL2 03	12.08	11.95	11.84
FE2 03	6.61	6.66	6.60
FE 0	-.01	-.01	-.01
MN 0	.31	.32	.32
MG 0	2.68	2.61	2.71
CA 0	8.49	8.07	8.46
NA2 0	4.19	4.48	4.58
K2 0	4.19	4.53	4.38
P2 05	.41	.42	.46
S	.01	.02	.01
L.O.I.	.69	.88	.69
TOTAL	100.00	100.01	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	477.00	482.00	424.00
CU	8.00	8.00	6.00
PB	86.00	90.00	84.00
ZN	245.00	223.00	245.00
CD	0.	0.	0.
AG	.20	.20	.20
CR	8.00	5.00	7.00
V	60.00	55.00	62.00
CO	27.00	22.00	26.00
NI	6.00	5.00	6.00
MB	4.00	2.00	3.00
RB	188.00	183.00	176.00
SR	232.00	244.00	235.00
ZR	269.00	262.00	-.01
Y	138.00	134.00	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-07-1	75-13-1	75-12	66-MS-1-1	75-13-2
ROCK TYPE	3D	3D	3D	3D	3D
SEQUENCE NO	2054	2055	2056	2057	2058
SI 02	47.87	52.13	54.51	45.78	52.73
TI 02	.15	.50	.90	2.36	.60
AL2 03	14.96	16.35	16.44	15.56	20.53
FE2 03	5.58	6.43	9.27	14.05	7.13
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.08	.11	.12	.07
MG 0	2.89	3.19	4.09	7.13	3.79
CA 0	11.17	11.66	7.08	9.54	6.08
NA2 0	.30	1.84	2.39	2.21	1.59
K2 0	3.09	3.39	2.34	1.20	3.79
P2 05	.15	.14	.39	.64	.16
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	13.76	4.29	2.49	1.41	3.54
TOTAL	100.00	100.00	100.01	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	66-MS-1-2	77X-01-1	77X-10	2577	2618
ROCK TYPE	3D	3D	3D	3DW	3DV
SEQUENCE NO	2059	2060	2061	2062	2063
SI O2	50.53	50.54	46.06	54.04	43.47
TI O2	.45	.10	1.00	.55	2.81
AL2 O3	17.45	17.05	24.73	18.64	13.15
FE2 O3	6.72	6.68	10.57	6.83	17.06
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.10	.08	.15	.05	.24
MG O	3.21	2.99	3.89	3.69	5.62
CA O	10.03	8.57	3.39	8.87	12.75
NA2 O	2.31	1.00	2.29	2.19	1.10
K2 O	3.01	3.49	3.69	4.24	2.56
P2 O5	.14	.14	.25	.15	.48
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	6.07	9.37	3.99	.75	.75
TOTAL	100.02	100.01	100.01	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	2711	3808	6026	2619	5696
ROCK TYPE	3D	3DW	3D	3DW	3D
SEQUENCE NO	2064	2065	2066	2081	2087
SI O2	49.16	49.01	54.14	53.27	49.82
TI O2	.45	.45	.45	.40	.55
AL2 O3	17.95	14.12	17.04	14.86	16.51
FE2 O3	6.98	4.97	6.72	7.83	7.85
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.08	.07	.06	.07	.11
MG O	3.59	2.68	3.31	5.29	4.80
CA O	16.45	18.49	11.83	12.67	15.81
NA2 O	.75	.89	.85	.90	1.40
K2 O	3.29	3.38	4.31	3.99	1.50
P2 O5	.15	.22	.13	.23	.24
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	1.15	5.72	1.15	.50	1.40
TOTAL	100.00	100.00	99.99	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-07-2	76X-22	76X-11-2	77X-01-2	77X-06
ROCK TYPE	SBD	5B	5B	5B	5B
SEQUENCE NO	2068	2069	2070	2071	2072
SI 02	52.49	41.75	50.96	51.96	46.15
TI 02	.15	.10	.10	.55	.05
AL2 03	17.56	15.22	20.10	20.18	15.05
FE2 03	5.62	5.71	7.34	8.29	5.72
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.09	.06	.11	.07
MG 0	3.21	2.90	3.22	2.50	2.71
CA 0	5.12	15.82	5.53	7.99	13.24
NA2 0	.45	.80	1.16	1.55	.90
K2 0	3.71	2.90	4.02	3.60	2.51
P2 05	.16	.10	.13	.12	.16
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	11.44	14.62	7.39	3.15	13.44
TOTAL	99.99	100.01	100.01	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-07-3	76X-11-3	3905	4223	5809
ROCK TYPE	5B3	5B	5B	5B	5B
SEQUENCE NO	2073	2074	2075	2076	2077
SI O2	49.51	42.69	57.17	22.50	48.89
TI O2	1.15	1.30	.05	0.	.15
AL2 O3	17.61	14.83	11.33	6.97	13.65
FE2 O3	10.70	12.93	5.47	2.84	5.17
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.14	.17	.06	.14	.11
MG O	5.90	5.11	2.61	1.49	2.61
CA O	7.80	9.82	10.03	35.35	10.54
NA2 O	2.40	3.51	1.30	2.09	5.02
K2 O	1.50	.10	1.70	.25	1.56
P2 O5	.28	.33	.15	.09	.16
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	3.00	9.22	10.13	28.28	12.15
TOTAL	99.99	100.01	100.00	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6080	5556
ROCK TYPE	5B	5B
SEQUENCE NO	2078	2088

SI 02	40.78	44.95
Tl 02	.30	1.65
AL2 03	9.42	12.11
FE2 03	4.31	12.61
FE 0	-.01	-.01
MN 0	.08	.15
MG 0	2.25	9.81
CA 0	21.74	7.81
NA2 0	.95	3.90
K2 0	1.55	.10
P2 05	.17	.29
S	-.01	-.01
L.O.I.	18.44	6.61

TOTAL	99.99	99.99
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 5901

ROCK TYPE 5A

SEQUENCE NO 2080

SI 02	80.14
TI 02	.20
AL2 03	9.74
FE2 03	1.59
FE 0	-.01
MN 0	.02
MG 0	.99
CA 0	.45
NA2 0	.75
K2 0	1.44
P2 05	.16
S	-.01
L.O.I.	4.52

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6064	6189	4144	4260	6176
ROCK TYPE	ARGBS	ARGBK	ARGBS	ARGBS	ARGBS
SEQUENCE NO	2082	2084	2100	2101	2102
SI O2	45.27	48.39	47.14	47.26	46.81
TI O2	1.50	1.66	1.50	1.20	2.21
AL2 O3	16.32	14.56	15.65	15.62	14.03
FE2 O3	13.32	14.05	2.31	3.30	4.86
FE O	-.01	-.01	7.62	6.46	9.02
MN O	.15	.17	.15	.17	.32
MG O	5.81	6.22	10.43	7.21	7.42
CA O	10.52	8.83	8.02	11.82	9.22
NA2 O	3.10	4.17	3.16	1.90	3.51
K2 O	.85	.45	.25	.30	.80
P2 O5	.10	.14	.20	.15	.20
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	3.05	1.36	3.56	4.61	1.60
TOTAL	99.99	100.00	99.99	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	120.00	105.00	135.00
Y	-.01	-.01	7.00	0.	14.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6322	6123	6190	6232	6313
ROCK TYPE	ARGBS	ARGBK	ARGBK	ARGBK	ARGBK
SEQUENCE NO	2103	2104	2105	2106	2107
SI 02	47.47	43.71	49.51	40.35	41.88
TI 02	1.05	1.85	1.10	.05	.85
AL2 03	14.72	11.43	13.46	.80	18.83
FE2 03	2.15	2.86	2.81	9.01	1.85
FE 0	7.86	7.62	7.93	4.76	4.51
MN 0	.17	.15	.11	.20	.11
MG 0	8.71	14.24	8.13	31.04	4.91
CA 0	11.52	12.73	12.25	6.91	17.43
NA2 0	2.35	1.00	2.81	.10	2.86
K2 0	.35	.95	.10	.05	.25
P2 05	.13	.29	.16	.07	.16
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	3.51	3.16	1.61	6.66	6.36
TOTAL	99.99	99.99	99.98	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	88.00	120.00	100.00	55.00	72.00
Y	0.	0.	0.	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6114	6131
ROCK TYPE	ARGBD	ARGBD
SEQUENCE NO	2110	2111

SI O2	48.26	46.02
TI O2	1.01	1.92
AL2 O3	16.09	14.46
FE2 O3	1.31	3.74
FE O	7.14	9.10
MN O	.15	.21
MG O	7.64	7.28
CA O	10.96	10.62
NA2 O	3.82	2.93
K2 O	.10	.96
P2 O5	.21	.22
S	-.01	-.01
L.O.I.	3.32	2.53

TOTAL	100.01	99.99
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	100.00	120.00
Y	0.	12.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6318	6101	6128	2361	3473
ROCK TYPE	FLSZB	FLSZB	FLSZB	FLSZG	FLSZG
SEQUENCE NO	2083	2112	2113	2114	2115
SI 02	43.95	47.17	61.09	45.40	47.97
TI 02	1.15	1.09	.55	.30	.20
AL2 03	13.98	14.13	12.84	15.07	17.56
FE2 03	13.98	3.13	2.14	1.00	2.71
FE 0	-.01	9.95	5.17	4.92	2.56
MN 0	.20	.25	.15	.11	.11
MG 0	7.19	7.56	3.78	8.84	9.03
CA 0	10.39	9.65	8.86	20.09	13.75
NA2 0	2.10	3.83	2.24	.20	2.86
K2 0	1.65	.15	.40	0.	.35
P2 05	.27	.18	.20	.04	.08
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	5.14	2.89	2.59	4.02	2.81
TOTAL	100.00	99.98	100.01	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	105.00	97.00	53.00	5.00
Y	-.01	5.00	0.	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 6319

ROCK TYPE FLSZG

SEQUENCE NO 2116

SI 02	49.13
TI 02	.40
AL2 03	15.28
FE2 03	1.15
FE 0	3.84
MN 0	.21
MG 0	8.09
CA 0	14.68
NA2 0	1.85
K2 0	2.30
P2 05	.09
S	-.01
L.O.I.	3.00

TOTAL 100.02

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	77.00
Y	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	5861	4948
ROCK TYPE	SFV	SFV
SEQUENCE NO	2086	2109

SI 02	58.55	58.79
TI 02	.55	.55
AL2 03	17.21	17.76
FE2 03	7.16	2.01
FE 0	-.01	5.17
MN 0	.08	.08
MG 0	3.10	3.51
CA 0	5.40	4.51
NA2 0	3.00	2.61
K2 0	2.20	1.30
P2 05	.19	.19
S	-.01	-.01
L.O.I.	2.55	3.51

TOTAL	99.99	99.99
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	-.01	130.00
Y	-.01	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3353	F3356	F3374	F3375	F3376
ROCK TYPE	0E8	0E8	0E8	0E8	0E8
SEQUENCE NO	3001	3002	3018	3019	3020
SI O2	61.77	65.18	62.26	61.26	61.95
TI O2	.63	.46	.84	.64	.59
AL2 O3	17.35	16.12	16.90	17.30	16.80
FE2 O3	6.64	5.91	5.25	6.73	6.37
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.13	.13	.10	.15	.12
MG O	1.95	1.26	1.71	1.96	1.79
CA O	5.31	3.85	4.53	5.83	5.03
NA2 O	2.16	2.00	2.41	2.56	2.56
K2 O	2.11	2.50	2.21	2.11	2.01
P2 O5	.15	.18	.16	.14	.16
S	.10	.03	.37	.40	.65
L.O.I.	1.70	2.37	3.25	.91	1.96
TOTAL	100.00	99.99	99.99	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	968.00	1216.00	1040.00	998.00	962.00
CU	225.00	24.00	10.00	7.00	10.00
PB	14.00	26.00	14.00	14.00	21.00
ZN	169.00	222.00	138.00	135.00	84.00
CD	1.20	3.00	1.10	.90	0.
AG	0.	0.	0.	0.	.30
CR	27.00	30.00	52.00	58.00	79.00
V	120.00	54.00	96.00	103.00	89.00
CO	23.00	23.00	21.00	24.00	23.00
NI	2.00	2.00	2.00	3.00	2.00
MB	6.00	6.00	4.00	5.00	4.00
RB	114.00	122.00	105.00	86.00	92.00
SR	326.00	277.00	318.00	355.00	335.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3377	F3378	F3379	F3381	F3383
ROCK TYPE	0E8	0E8	0E8	0E7	0E7
SEQUENCE NO	3021	3022	3023	3025	3027
SI 02	65.20	65.46	51.15	53.68	64.00
TI 02	.46	.48	.43	.73	.54
AL2 03	16.40	16.06	28.18	20.11	16.40
FE2 03	5.13	5.50	5.43	8.33	6.27
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.07	.03	.12	.08
MG 0	1.28	1.35	1.08	1.88	1.77
CA 0	3.77	3.82	.84	4.17	3.02
NA2 0	2.52	2.66	.51	2.01	2.62
K2 0	2.82	2.41	6.43	2.81	2.11
P2 05	.22	.18	.09	.11	.16
S	.14	.16	1.55	.31	.58
L.O.I.	1.97	1.85	4.27	5.72	2.44
TOTAL	99.99	100.00	99.99	99.98	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1300.00	1367.00	2629.00	880.00	976.00
CU	5.00	25.00	136.00	14.00	12.00
PB	24.00	18.00	18.00	14.00	18.00
ZN	59.00	56.00	115.00	90.00	74.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	80.00	93.00	170.00	80.00	42.00
V	48.00	48.00	82.00	118.00	102.00
CO	18.00	20.00	22.00	25.00	20.00
NI	2.00	2.00	22.00	16.00	0.
MB	4.00	5.00	5.00	7.00	3.00
RB	112.00	101.00	271.00	138.00	134.00
SR	304.00	300.00	61.00	155.00	238.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3278	F3286	F3296	F3300	F3402
ROCK TYPE	0E6	0D8	0E8	0E8	0E8
SEQUENCE NO	3062	3070	3078	3080	3081
SI 02	57.51	62.23	60.22	62.94	58.12
TI 02	.79	.40	.33	.45	.60
AL2 03	20.35	16.13	16.50	15.26	16.39
FE2 03	7.65	5.01	5.24	4.71	6.22
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.04	.06	.05	.07	.12
MG 0	2.10	1.81	1.86	1.26	1.91
CA 0	.46	2.10	2.86	4.97	5.83
NA2 0	.30	.75	.57	1.71	1.76
K2 0	4.83	4.26	3.55	3.11	2.36
P2 05	.13	.12	.11	.20	.14
S	.50	.16	.38	.15	.20
L.O.I.	5.34	6.95	8.32	5.17	6.33
TOTAL	100.00	99.98	99.99	100.00	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	1046.00	1430.00	1015.00	1788.00	1552.00
CU	149.00	21.00	69.00	540.00	34.00
PB	35.00	43.00	36.00	29.00	41.00
ZN	78.00	88.00	81.00	350.00	96.00
CD	0.	0.	0.	0.	0.
AG	.30	.30	0.	0.	0.
CR	92.00	55.00	40.00	22.00	20.00
V	120.00	79.00	77.00	58.00	120.00
CO	25.00	17.00	26.00	18.00	26.00
NI	34.00	8.00	17.00	17.00	2.00
MB	4.00	6.00	5.00	4.00	4.00
RB	215.00	250.00	256.00	143.00	118.00
SR	54.00	82.00	107.00	231.00	307.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1116	F1206	F1160	F1163	F15775
ROCK TYPE	0E	0E	0E	0E	0E
SEQUENCE NO	3085	3106	3117	3119	3201
SI 02	66.53	65.24	69.52	59.96	54.89
TI 02	.46	.44	.35	.20	.59
AL2 03	16.18	15.86	14.66	12.59	21.03
FE2 03	4.61	5.85	5.01	5.18	7.39
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.08	.12	.13	.06
MG 0	1.04	.91	.69	.72	1.72
CA 0	1.18	1.00	.41	.36	.60
NA2 0	1.80	1.15	.26	.34	1.85
K2 0	2.45	2.41	3.66	3.44	3.41
P2 05	.21	.22	.22	.22	.14
S	.06	.28	.07	.38	.01
L.O.I.	5.43	6.54	5.02	7.21	8.30
TOTAL	100.00	99.98	99.99	90.73	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1923.00	1682.00	15628.00	91200.00	814.00
CU	26.00	18.00	36.00	1650.00	9.00
PB	21.00	86.00	67.00	260.00	12.00
ZN	140.00	74.00	227.00	600.00	178.00
CD	0.	0.	2.20	10.50	0.
AG	.20	.30	.50	4.60	.20
CR	18.00	18.00	22.00	29.00	112.00
V	55.00	60.00	75.00	155.00	150.00
CO	16.00	17.00	16.00	25.00	32.00
NI	2.00	1.00	3.00	3.00	48.00
MB	3.00	3.00	3.00	4.00	4.00
RB	83.00	115.00	179.00	119.00	179.00
SR	154.00	118.00	62.00	82.00	154.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F15777

ROCK TYPE OE

SEQUENCE NO 3203

SI 02	49.68
TI 02	.67
AL2 03	23.62
FE2 03	8.71
FE 0	-.01
MN 0	.11
MG 0	2.13
CA 0	1.06
NA2 0	1.32
K2 0	4.46
P2 05	.13
S	.09
L.O.I.	8.02

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1067.00
CU	22.00
PB	18.00
ZN	85.00
CD	0.
AG	.20
CR	80.00
V	135.00
CO	33.00
NI	46.00
MB	4.00
RB	166.00
SR	115.00
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3359	F3360	F3361	F3362	F3363
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3003	3004	3005	3006	3007
SI O2	37.99	53.44	54.45	57.78	59.50
TI O2	.90	.68	.82	.75	.68
AL2 O3	27.31	20.43	22.76	21.07	19.47
FE2 O3	12.80	9.61	8.67	8.37	8.65
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.21	.12	.08	.08	.08
MG O	2.28	1.69	1.87	1.89	1.78
CA O	.96	.75	.49	.52	.48
NA2 O	.40	.48	.83	1.10	.90
K2 O	5.79	4.33	4.91	4.31	4.26
P2 O5	.07	.11	.10	.11	.08
S	.05	.16	.20	.13	.19
L.O.I.	11.24	8.19	4.81	3.88	3.92
TOTAL	100.00	99.99	99.99	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	3007.00	1875.00	1010.00	831.00	842.00
CU	50.00	33.00	22.00	18.00	24.00
PB	18.00	18.00	16.00	116.00	10.00
ZN	162.00	158.00	77.00	64.00	57.00
CD	0.	.80	0.	0.	0.
AG	.40	.30	0.	0.	0.
CR	128.00	100.00	110.00	95.00	100.00
V	142.00	100.00	110.00	98.00	100.00
CO	48.00	31.00	35.00	35.00	33.00
NI	42.00	35.00	40.00	38.00	41.00
MB	7.00	4.00	5.00	5.00	4.00
RB	191.00	157.00	167.00	169.00	160.00
SR	71.00	61.00	58.00	66.00	62.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3364	F3365	F3366	F3367	F3368
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3008	3009	3010	3011	3012
SI 02	60.07	58.00	57.15	57.22	55.70
TI 02	.71	.77	.66	.77	.78
AL2 03	19.46	20.87	20.32	20.82	21.48
FE2 03	8.75	8.75	8.27	8.27	8.87
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.12	.08	.09	.08	.09
MG 0	1.83	1.83	1.80	1.75	1.89
CA 0	.58	.42	.60	.45	.56
NA2 0	1.00	.82	1.03	.70	.98
K2 0	3.96	4.37	4.35	4.42	4.62
P2 05	.11	.07	.12	.08	.11
S	.15	.12	.07	.11	.09
L.O.I.	3.26	3.89	5.53	5.32	4.83
TOTAL	100.00	99.99	99.99	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	845.00	880.00	1054.00	966.00	880.00
CU	36.00	32.00	36.00	27.00	37.00
PB	12.00	10.00	17.00	20.00	26.00
ZN	87.00	76.00	108.00	80.00	106.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	80.00	85.00	117.00	115.00	140.00
V	97.00	100.00	78.00	99.00	99.00
CO	34.00	34.00	33.00	31.00	34.00
NI	44.00	43.00	42.00	42.00	42.00
MB	3.00	4.00	2.00	3.00	3.00
RB	152.00	158.00	168.00	160.00	170.00
SR	62.00	51.00	83.00	57.00	73.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3369	F3370	F3371	F3372	F3373
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3013	3014	3015	3016	3017
SI 02	54.68	59.24	59.80	53.11	49.43
TI 02	.84	.62	.70	.97	.85
AL2 03	21.11	19.85	19.20	22.53	24.51
FE2 03	9.81	8.64	8.94	9.96	8.63
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.08	.08	.12	.10
MG 0	2.03	1.82	1.89	2.21	1.82
CA 0	.63	.45	.42	.58	1.35
NA2 0	.82	.75	.85	1.29	.55
K2 0	4.62	4.33	4.32	4.93	4.85
P2 05	.11	.11	.07	.08	.10
S	.20	.36	.26	.17	.58
L.O.I.	5.03	3.75	3.46	4.05	7.22
TOTAL	99.98	100.00	99.99	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	941.00	880.00	731.00	1106.00	1112.00
CU	58.00	70.00	25.00	25.00	86.00
PB	44.00	24.00	24.00	16.00	18.00
ZN	137.00	94.00	78.00	80.00	103.00
CD	0.	0.	0.	0.	0.
AG	.40	0.	0.	0.	0.
CR	160.00	153.00	152.00	158.00	138.00
V	110.00	90.00	88.00	110.00	100.00
CO	40.00	33.00	32.00	38.00	33.00
NI	51.00	39.00	39.00	47.00	38.00
MB	3.00	5.00	5.00	5.00	5.00
RB	165.00	154.00	160.00	185.00	191.00
SR	67.00	56.00	61.00	72.00	63.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3380	F3382	F3384	F3385	F3386
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3024	3026	3028	3029	3030
SI 02	55.58	52.81	58.82	62.33	63.22
TI 02	.73	.88	.71	.60	.64
AL2 03	21.23	22.55	19.84	16.26	16.98
FE2 03	9.15	9.64	7.82	6.23	8.78
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.16	.09	.08	.14
MG 0	1.94	2.02	1.64	1.74	1.58
CA 0	1.18	1.68	1.51	4.01	.80
NA2 0	.92	1.15	.71	2.61	.49
K2 0	4.46	4.21	4.33	2.16	3.20
P2 05	.09	.09	.10	.16	.09
S	.67	.15	.64	.59	.49
L.O.I.	3.94	4.66	3.79	3.22	3.61
TOTAL	99.99	100.00	100.00	99.99	100.02

TRACE ELEMENT CHEMISTRY (PPM)

BA	1087.00	911.00	970.00	903.00	656.00
CU	87.00	23.00	50.00	11.00	68.00
PB	17.00	8.00	23.00	11.00	11.00
ZN	143.00	101.00	89.00	70.00	74.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	158.00	148.00	170.00	50.00	150.00
V	118.00	113.00	95.00	100.00	78.00
CO	30.00	33.00	30.00	19.00	31.00
NI	32.00	38.00	26.00	0.	36.00
MB	5.00	4.00	4.00	4.00	3.00
RB	165.00	177.00	153.00	134.00	114.00
SR	65.00	88.00	70.00	252.00	35.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3387	F3388	F3389	F3390	F3391
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3031	3032	3033	3034	3035
SI 02	60.44	55.78	55.45	55.58	53.93
TI 02	.70	.74	.50	.67	.67
AL2 03	17.66	17.76	18.38	19.66	20.15
FE2 03	9.37	8.10	8.62	8.37	9.28
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.13	.11	.12	.15
MG 0	1.72	1.68	2.03	1.82	1.87
CA 0	1.01	2.59	1.56	.90	1.00
NA2 0	.81	.75	.62	.58	1.05
K2 0	4.04	3.99	3.87	4.06	3.96
P2 05	.12	.09	.12	.11	.10
S	.48	.16	.12	.13	.08
L.O.I.	3.55	8.22	8.62	8.00	7.74
TOTAL	100.00	99.99	100.00	100.00	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	827.00	880.00	824.00	961.00	964.00
CU	44.00	52.00	21.00	27.00	34.00
PB	12.00	15.00	10.00	10.00	12.00
ZN	69.00	88.00	73.00	77.00	79.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	142.00	138.00	140.00	135.00	137.00
V	88.00	93.00	99.00	95.00	103.00
CO	31.00	30.00	30.00	30.00	34.00
NI	36.00	39.00	33.00	39.00	42.00
MB	4.00	4.00	3.00	3.00	4.00
RB	145.00	182.00	158.00	179.00	170.00
SR	51.00	97.00	73.00	53.00	61.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3392	F3393	F3254	F3256	F3258
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3036	3037	3041	3042	3043
SI 02	55.80	54.82	61.12	55.32	55.61
TI 02	.63	.56	.57	.75	.75
AL2 03	18.77	19.14	17.42	20.98	20.81
FE2 03	9.22	9.09	9.50	9.45	9.69
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.09	.11	.09	.06	.05
MG 0	2.03	1.92	1.89	2.05	1.91
CA 0	.80	1.00	.41	.37	.37
NA2 0	.35	.35	.50	.67	.75
K2 0	3.76	3.69	4.03	4.72	4.83
P2 05	.11	.15	.13	.11	.09
S	.06	.12	.65	.26	.59
L.O.I.	8.37	9.05	3.67	5.26	4.53
TOTAL	99.99	100.00	99.98	100.00	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	1148.00	978.00	825.00	1083.00	1025.00
CU	23.00	60.00	90.00	38.00	86.00
PB	10.00	15.00	64.00	55.00	22.00
ZN	78.00	89.00	60.00	55.00	80.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	.60	0.
CR	150.00	140.00	164.00	150.00	148.00
V	103.00	98.00	98.00	120.00	117.00
CO	34.00	34.00	35.00	35.00	36.00
NI	37.00	37.00	44.00	43.00	39.00
MB	3.00	3.00	5.00	3.00	4.00
RB	162.00	139.00	153.00	196.00	195.00
SR	44.00	50.00	21.00	24.00	37.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3262	F3265	F1166 A	F1167	F1168
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3046	3049	3122	3123	3124
SI 02	58.47	53.81	53.98	48.55	49.51
TI 02	.53	.48	.51	.64	.70
AL2 03	19.42	22.85	18.13	23.57	23.35
FE2 03	8.14	8.00	9.80	9.77	9.06
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.05	.22	.08	.08
MG 0	1.80	1.70	1.87	2.12	2.11
CA 0	.51	.40	.61	.76	.75
NA2 0	.54	.49	.39	.40	.50
K2 0	4.35	4.31	4.46	4.84	4.53
P2 05	.12	.10	.14	.10	.14
S	.57	.17	.76	.59	.38
L.O.I.	5.50	7.65	9.12	8.57	8.88
TOTAL	100.00	100.01	99.99	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	775.00	1136.00	1192.00	1324.00	1254.00
CU	45.00	23.00	3100.00	66.00	40.00
PB	100.00	12.00	73.00	34.00	41.00
ZN	46.00	40.00	320.00	126.00	148.00
CD	0.	0.	5.40	0.	0.
AG	.30	0.	4.30	.20	.20
CR	132.00	138.00	82.00	89.00	83.00
V	98.00	100.00	110.00	110.00	110.00
CO	27.00	30.00	36.00	32.00	31.00
NI	52.00	35.00	52.00	50.00	47.00
MB	3.00	4.00	3.00	3.00	3.00
RB	173.00	175.00	141.00	177.00	181.00
SR	34.00	49.00	48.00	54.00	54.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19720	F19730	F15779	F15780	F15781
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3153	3154	3205	3206	3207
SI 02	56.39	55.38	54.33	56.31	56.45
TI 02	.60	.77	.74	.57	.66
AL2 03	19.53	20.50	22.13	19.21	19.69
FE2 03	9.25	9.41	8.70	9.03	9.33
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.09	.08	.08	.09	.07
MG 0	2.44	2.63	2.11	2.21	2.34
CA 0	1.11	1.13	.70	.86	1.05
NA2 0	.73	.72	1.11	.99	1.43
K2 0	3.52	3.52	3.62	3.37	3.47
P2 05	.09	.13	.13	.12	.19
S	.37	.17	.16	.31	.15
L.O.I.	5.87	5.56	6.18	6.93	5.17
TOTAL	99.99	100.00	99.99	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1173.00	1230.00	1022.00	859.00	851.00
CU	30.00	26.00	28.00	58.00	26.00
PB	14.00	13.00	30.00	22.00	30.00
ZN	70.00	61.00	93.00	94.00	70.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	100.00	108.00	75.00	73.00	75.00
V	105.00	120.00	120.00	110.00	115.00
CO	32.00	32.00	32.00	31.00	33.00
NI	45.00	47.00	49.00	47.00	55.00
MB	3.00	3.00	3.00	4.00	3.00
RB	143.00	151.00	157.00	157.00	170.00
SR	82.00	81.00	102.00	84.00	99.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15782	F15783	F15784	F15785	F15786
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3208	3209	3210	3211	3212
SI 02	57.83	53.97	48.00	56.30	54.70
TI 02	.68	.63	1.20	.64	.62
AL2 03	19.91	21.67	15.70	20.47	20.03
FE2 03	9.09	8.32	11.50	8.36	9.22
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.11	.07	.18	.08	.14
MG 0	2.25	2.41	8.50	2.09	2.15
CA 0	.85	1.05	5.40	.69	.85
NA2 0	1.32	1.37	1.32	1.20	1.39
K2 0	3.50	3.61	1.84	3.71	3.59
P2 05	.15	.27	.17	.13	.15
S	.17	.26	.11	.16	.12
L.O.I.	4.13	6.36	6.09	6.16	7.05
TOTAL	99.99	99.99	100.01	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	904.00	918.00	551.00	943.00	908.00
CU	30.00	37.00	46.00	26.00	30.00
PB	38.00	28.00	21.00	30.00	23.00
ZN	82.00	86.00	116.00	53.00	61.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	71.00	130.00	400.00	85.00	78.00
V	115.00	120.00	180.00	115.00	108.00
CO	30.00	33.00	48.00	30.00	30.00
NI	45.00	76.00	220.00	44.00	46.00
MB	3.00	4.00	4.00	5.00	2.00
RB	156.00	162.00	77.00	160.00	155.00
SR	94.00	121.00	125.00	90.00	100.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15787	F15788
ROCK TYPE	1CD	1CD
SEQUENCE NO	3213	3214

SI 02	56.73	57.07
TI 02	.63	.69
AL2 03	19.81	18.99
FE2 03	8.41	9.29
FE 0	-.01	-.01
MN 0	.11	.14
MG 0	2.05	2.21
CA 0	.65	.68
NA2 0	1.41	1.11
K2 0	3.52	3.77
P2 05	.13	.11
S	.21	.25
L.O.I.	6.33	5.68

TOTAL	99.99	99.99
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TRACE ELEMENT CHEMISTRY (PPM)

BA	895.00	835.00
CU	31.00	30.00
PB	28.00	50.00
ZN	40.00	40.00
CD	0.	0.
AG	.20	.20
CR	80.00	82.00
V	100.00	105.00
CO	30.00	31.00
NI	47.00	44.00
MB	4.00	3.00
RB	152.00	158.00
SR	107.00	84.00
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3260	F3261	F3263	F3264	F3266
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3044	3045	3047	3048	3050
SI 02	55.77	62.72	54.92	59.54	61.83
TI 02	.50	.46	.34	.31	.29
AL2 03	20.76	16.86	19.35	18.57	16.59
FE2 03	8.87	7.62	10.88	8.04	8.06
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.09	.08	.05	.05	.06
MG 0	1.71	1.57	1.75	1.69	1.41
CA 0	.42	.36	.40	.42	.33
NA2 0	.48	.38	.51	.43	.38
K2 0	4.51	3.46	3.83	3.71	3.82
P2 05	.07	.07	.09	.10	.08
S	.18	.08	1.83	.18	.74
L.O.I.	6.64	6.34	6.03	6.95	6.39
TOTAL	100.00	100.00	99.98	99.99	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	1130.00	769.00	733.00	868.00	664.00
CU	102.00	52.00	270.00	40.00	143.00
PB	80.00	54.00	19.00	19.00	62.00
ZN	190.00	112.00	42.00	45.00	76.00
CD	.60	0.	0.	0.	0.
AG	.80	.80	0.	0.	1.40
CR	170.00	200.00	142.00	158.00	138.00
V	115.00	92.00	98.00	90.00	78.00
CO	33.00	25.00	46.00	27.00	28.00
NI	38.00	36.00	43.00	31.00	29.00
MB	4.00	5.00	5.00	5.00	3.00
RB	166.00	100.00	164.00	168.00	158.00
SR	46.00	26.00	33.00	42.00	22.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3267	F3268	F3269	F3288	F1118
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3051	3052	3053	3072	3086
SI O2	56.64	56.06	53.37	54.30	57.27
TI O2	.32	.35	.44	.47	.47
AL2 O3	19.08	19.99	20.85	15.74	19.43
FE2 O3	8.74	8.35	8.97	14.63	8.63
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.06	.05	.06	.06	.06
MG O	1.67	1.63	1.99	2.28	1.51
CA O	.44	.47	.63	.63	.43
NA2 O	.40	.42	.50	.28	.31
K2 O	4.24	4.12	4.43	3.73	3.97
P2 O5	.11	.11	.08	.09	.10
S	.78	.49	.47	3.09	.38
L.O.I.	7.50	7.95	8.19	4.68	7.46
TOTAL	99.98	99.99	99.98	99.98	100.02

TRACE ELEMENT CHEMISTRY (PPM)

BA	746.00	837.00	1000.00	731.00	1138.00
CU	210.00	52.00	32.00	1000.00	58.00
PB	56.00	19.00	24.00	440.00	23.00
ZN	68.00	52.00	37.00	340.00	112.00
CD	0.	0.	0.	1.00	0.
AG	1.00	.50	0.	3.70	.20
CR	140.00	145.00	148.00	118.00	72.00
V	100.00	98.00	98.00	81.00	90.00
CO	32.00	34.00	35.00	62.00	26.00
NI	34.00	37.00	36.00	52.00	32.00
MB	5.00	5.00	4.00	3.00	3.00
RB	192.00	182.00	167.00	117.00	138.00
SR	29.00	36.00	36.00	22.00	35.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1120	F1121	F1122	F1124	F1200
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3088	3089	3090	3091	3103
SI 02	51.69	54.68	65.74	55.15	59.19
TI 02	.52	.28	.15	.42	.43
AL2 03	21.26	16.00	7.48	19.96	19.16
FE2 03	9.59	13.77	14.56	9.52	6.34
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.06	.12	.10	.05
MG 0	2.24	1.56	.49	2.04	1.92
CA 0	.55	.37	.12	.41	.64
NA2 0	.30	.30	.18	.30	.25
K2 0	4.38	3.44	2.22	4.44	4.18
P2 05	.18	.11	.05	.09	.18
S	.34	3.75	7.28	.50	.54
L.O.I.	8.83	5.67	.61	7.06	7.12
TOTAL	99.98	99.99	99.00	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	980.00	896.00	1031.00	1346.00	2990.00
CU	73.00	620.00	1310.00	255.00	140.00
PB	74.00	210.00	470.00	290.00	200.00
ZN	200.00	215.00	7500.00	229.00	174.00
CD	.40	.50	5.80	.50	0.
AG	.20	2.90	4.50	1.40	2.90
CR	80.00	97.00	46.00	78.00	103.00
V	100.00	100.00	100.00	90.00	98.00
CO	35.00	35.00	92.00	28.00	24.00
NI	40.00	40.00	20.00	34.00	32.00
MB	3.00	4.00	7.00	4.00	3.00
RB	168.00	122.00	70.00	162.00	161.00
SR	37.00	26.00	15.00	32.00	62.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1201	F1202	F1153	F1154	F1155
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3104	3105	3111	3112	3113
SI O2	66.99	55.04	58.00	55.53	53.20
TI O2	.21	.30	.55	.45	.69
AL2 O3	13.01	19.05	19.94	18.48	18.71
FE2 O3	6.71	9.93	8.57	10.80	10.72
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.05	.05	.11	.07	.07
MG O	1.27	1.50	1.31	1.66	1.94
CA O	.40	.60	.38	.48	.71
NA2 O	.45	.38	.32	.32	.32
K2 O	3.18	4.21	3.88	4.24	3.74
P2 O5	.21	.11	.09	.09	.19
S	1.57	3.06	1.01	1.69	1.38
L.O.I.	4.08	5.76	5.84	6.19	8.33
TOTAL	98.13	99.99	100.00	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	2523.00	2417.00	1569.00	1469.00	4247.00
CU	215.00	235.00	91.00	500.00	64.00
PB	13300.00	131.00	22.00	22.00	18.00
ZN	2650.00	152.00	56.00	37.00	94.00
CD	3.90	.20	0.	0.	0.
AG	6.00	1.30	.20	.20	.20
CR	78.00	70.00	75.00	70.00	80.00
V	75.00	96.00	110.00	105.00	140.00
CO	20.00	22.00	33.00	40.00	36.00
NI	24.00	47.00	37.00	37.00	60.00
MB	4.00	3.00	3.00	3.00	3.00
RB	136.00	147.00	153.00	136.00	145.00
SR	41.00	36.00	56.00	38.00	52.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1156	F1157	F1158	F1164	F1165
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3114	3115	3116	3120	3121
SI 02	53.41	53.80	58.17	60.09	59.89
TI 02	.47	.41	.41	.41	.38
AL2 03	19.94	20.69	19.42	15.79	17.15
FE2 03	9.82	9.67	9.07	11.61	8.89
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.09	.09	.12	.44
MG 0	1.88	1.53	1.67	.86	1.24
CA 0	.75	.52	.40	.33	.48
NA2 0	.38	.32	.52	.39	.38
K2 0	4.11	4.14	4.28	4.38	4.47
P2 05	.14	.13	.13	.12	.34
S	.34	.74	.35	3.36	1.45
L.O.I.	8.68	7.94	5.69	2.55	4.87
TOTAL	100.00	99.98	100.00	100.01	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	1165.00	1825.00	2068.00	1642.00	1276.00
CU	74.00	55.00	77.00	400.00	64.00
PB	33.00	37.00	33.00	2650.00	156.00
ZN	108.00	96.00	86.00	7700.00	620.00
CD	0.	0.	0.	8.30	1.00
AG	.20	.20	.20	4.80	.60
CR	97.00	97.00	95.00	61.00	73.00
V	130.00	110.00	85.00	80.00	95.00
CO	34.00	34.00	38.00	33.00	26.00
NI	48.00	50.00	48.00	28.00	40.00
MB	3.00	3.00	3.00	8.00	3.00
RB	131.00	162.00	155.00	109.00	167.00
SR	33.00	36.00	24.00	25.00	37.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1229	F1230	F1231	F1233	F1235
ROCK TYPE	104	104	104	104	104
SEQUENCE NO	3133	3134	3135	3137	3144
SI 02	53.67	56.65	66.30	59.92	63.34
TI 02	.80	.57	.37	.46	.39
AL2 03	22.66	20.55	14.48	16.17	13.43
FE2 03	8.00	7.71	7.32	9.75	9.26
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.11	.12	.06	.14
MG 0	1.55	1.56	.84	.76	.92
CA 0	.50	.50	.32	.30	.32
NA2 0	.32	.30	.22	.28	.20
K2 0	4.28	4.66	3.89	3.54	4.31
P2 05	.11	.16	.15	.16	.17
S	.31	.79	2.61	3.69	3.64
L.O.I.	7.74	6.43	3.38	3.49	3.88
TOTAL	100.00	99.99	100.00	98.58	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1078.00	2013.00	1779.00	1184.00	2127.00
CU	28.00	218.00	270.00	460.00	400.00
PB	35.00	95.00	96.00	1380.00	880.00
ZN	113.00	159.00	215.00	11500.00	590.00
CD	0.	.30	.20	13.50	.60
AG	.20	.30	1.00	4.30	1.90
CR	93.00	78.00	58.00	70.00	65.00
V	120.00	118.00	80.00	210.00	800.00
CO	27.00	28.00	30.00	31.00	46.00
NI	41.00	33.00	18.00	44.00	37.00
MB	3.00	4.00	3.00	8.00	16.00
RB	153.00	189.00	159.00	103.00	139.00
SR	41.00	45.00	30.00	59.00	22.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1184	F1191	F1195	F1196	F1197
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3096	3097	3098	3099	3100
SI 02	60.64	66.63	54.16	57.52	50.44
TI 02	.48	.44	.34	.49	.54
AL2 03	19.14	16.08	18.97	19.24	23.51
FE2 03	6.97	4.60	10.24	8.69	8.33
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.06	.06	.06	.05
MG 0	1.41	1.05	1.36	1.38	1.71
CA 0	.54	1.11	.30	.41	.30
NA2 0	.50	1.37	.61	.45	.52
K2 0	3.63	2.77	4.91	3.65	5.43
P2 05	.18	.26	.22	.22	.22
S	.30	.06	3.20	.93	.83
L.O.I.	6.14	5.57	5.62	6.97	8.11
TOTAL	99.99	100.00	99.99	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	789.00	2425.00	3773.00	2075.00	3928.00
CU	26.00	5.00	360.00	60.00	54.00
PB	86.00	36.00	48.00	34.00	22.00
ZN	94.00	97.00	122.00	80.00	94.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.60	.20	.20
CR	90.00	10.00	89.00	95.00	90.00
V	93.00	60.00	102.00	102.00	110.00
CO	25.00	17.00	25.00	24.00	30.00
NI	35.00	1.00	30.00	32.00	37.00
MB	3.00	3.00	4.00	2.00	2.00
RB	151.00	133.00	171.00	135.00	205.00
SR	31.00	121.00	41.00	44.00	56.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1133	F1144	F1152	F1222	F1223
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3108	3109	3110	3126	3127
SI O2	62.21	61.54	65.92	59.56	57.81
TI O2	.46	.56	.48	.75	.73
AL2 O3	19.87	19.71	16.91	20.59	20.27
FE2 O3	5.60	7.33	6.37	6.89	7.89
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.05	.07	.08	.14	.23
MG O	1.63	1.93	1.18	1.71	1.82
CA O	.48	.44	.42	.55	.50
NA2 O	.65	.82	.22	.25	.25
K2 O	3.71	3.47	3.37	4.57	4.42
P2 O5	.13	.10	.12	.17	.16
S	.19	.18	.50	.10	.30
L.O.I.	5.03	3.84	4.43	4.72	5.62
TOTAL	100.01	99.99	100.00	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1193.00	845.00	1062.00	1218.00	1290.00
CU	33.00	16.00	52.00	22.00	40.00
PB	51.00	34.00	16.00	56.00	75.00
ZN	121.00	120.00	58.00	94.00	160.00
CD	0.	0.	0.	0.	.90
AG	.20	.20	.20	.20	.20
CR	100.00	102.00	66.00	90.00	88.00
V	95.00	115.00	80.00	100.00	105.00
CO	22.00	25.00	26.00	24.00	27.00
NI	31.00	30.00	55.00	35.00	40.00
MB	3.00	3.00	3.00	3.00	3.00
RB	158.00	144.00	128.00	176.00	175.00
SR	70.00	92.00	34.00	40.00	37.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1224	F1225	F1226	F1227	F1228
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3128	3129	3130	3131	3132
SI 02	57.82	56.77	55.02	56.79	54.54
TI 02	.61	.79	.64	.75	.77
AL2 O3	20.44	19.63	21.32	18.73	21.45
FE2 O3	8.54	8.63	8.34	9.15	8.78
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.21	.12	.06	.10	.09
MG O	1.92	2.42	1.93	2.56	1.96
CA O	.48	.48	.43	1.58	.42
NA2 O	.28	.25	.30	.72	.32
K2 O	4.41	3.45	3.87	3.56	4.21
P2 O5	.18	.14	.13	.14	.13
S	.12	.07	.18	.21	.23
L.O.I.	4.99	7.24	7.77	5.70	7.09
TOTAL	100.00	99.99	99.99	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1372.00	1004.00	1055.00	933.00	1138.00
CU	24.00	21.00	24.00	36.00	23.00
PB	132.00	26.00	30.00	40.00	158.00
ZN	224.00	116.00	88.00	128.00	154.00
CD	1.20	0.	0.	0.	.20
AG	.60	.30	.20	.20	.40
CR	102.00	78.00	85.00	122.00	92.00
V	98.00	132.00	110.00	130.00	118.00
CO	28.00	31.00	29.00	32.00	28.00
NI	40.00	44.00	37.00	47.00	40.00
MB	3.00	3.00	3.00	3.00	3.00
RB	149.00	140.00	148.00	134.00	170.00
SR	36.00	37.00	41.00	67.00	32.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19715	F19716	F19717	F19718	F19719
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3139	3140	3141	3142	3143
SI 02	58.60	65.46	54.20	57.07	56.18
TI 02	.68	.54	.74	.46	.46
AL2 03	18.93	16.16	21.92	19.60	20.24
FE2 03	9.21	7.57	9.00	9.33	8.75
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.04	.09	.09	.13
MG 0	2.70	1.85	2.21	1.82	1.64
CA 0	1.29	.65	.90	.69	.50
NA2 0	.40	.50	.80	.40	.32
K2 0	4.23	3.92	4.32	4.44	4.83
P2 05	.15	.09	.17	.13	.09
S	.74	.15	.33	1.14	.64
L.O.I.	2.99	3.06	5.30	4.82	6.20
TOTAL	99.99	99.99	99.98	99.99	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	992.00	784.00	973.00	842.00	1571.00
CU	70.00	18.00	44.00	33.00	40.00
PB	20.00	7.00	60.00	52.00	53.00
ZN	86.00	60.00	116.00	93.00	84.00
CD	0.	0.	.20	0.	0.
AG	.20	.20	.20	.20	.20
CR	96.00	80.00	110.00	88.00	95.00
V	125.00	110.00	140.00	100.00	120.00
CO	31.00	30.00	30.00	28.00	26.00
NI	48.00	38.00	41.00	43.00	25.00
MB	3.00	3.00	4.00	3.00	2.00
RB	166.00	149.00	174.00	165.00	169.00
SR	53.00	33.00	46.00	31.00	34.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19738	F19739	F19740	F19741	F19742
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3146	3147	3148	3149	3150
S1 02	52.95	54.63	56.77	54.15	53.64
TI 02	.30	.29	.31	.69	.64
AL2 03	24.39	21.33	20.61	20.57	22.50
FE2 03	7.37	8.20	8.85	9.80	8.76
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.09	.06	.08	.07
MG 0	1.45	2.39	2.22	2.80	2.26
CA 0	.56	.70	.66	1.61	1.19
NA2 0	.73	.48	.51	.66	.50
K2 0	4.80	3.87	3.54	3.18	3.67
P2 05	.15	.15	.11	.10	.15
S	2.03	1.01	.81	.38	.25
L.O.I.	5.21	6.84	5.56	5.97	6.38
TOTAL	100.00	99.98	100.01	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	1456.00	947.00	929.00	1000.00	1078.00
CU	53.00	78.00	34.00	34.00	24.00
PB	91.00	40.00	29.00	36.00	33.00
ZN	172.00	148.00	70.00	94.00	138.00
CD	.60	0.	0.	0.	0.
AG	.90	.60	.20	.20	.20
CR	100.00	90.00	98.00	118.00	96.00
V	115.00	100.00	112.00	130.00	125.00
CO	24.00	30.00	31.00	36.00	31.00
NI	26.00	37.00	48.00	64.00	36.00
MB	4.00	3.00	3.00	4.00	4.00
RB	213.00	179.00	168.00	143.00	156.00
SR	110.00	68.00	65.00	80.00	70.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19745	F1174	F1176	F1177	F1178
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3152	3159	3161	3162	3163
SI O2	55.34	61.42	62.32	56.25	51.08
TI O2	.56	.48	.46	.70	.86
AL2 O3	21.35	18.13	16.69	19.65	20.27
FE2 O3	8.72	8.35	7.33	7.88	9.94
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.06	.08	.08	.08	.08
MG O	2.14	2.62	1.57	1.74	2.31
CA O	.81	1.81	.64	1.06	1.18
NA2 O	.40	1.93	.48	.42	.40
K2 O	3.64	2.62	3.72	4.55	4.42
P2 O5	.10	.14	.18	.24	.22
S	.96	.36	.34	.22	.18
L.O.I.	5.92	2.05	6.19	7.20	9.05
TOTAL	100.00	99.99	100.00	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	1026.00	765.00	832.00	1072.00	907.00
CU	48.00	29.00	28.00	26.00	26.00
PB	29.00	36.00	44.00	27.00	32.00
ZN	79.00	108.00	120.00	106.00	82.00
CD	0.	0.	.20	0.	0.
AG	.20	.20	.20	.20	.20
CR	85.00	100.00	90.00	80.00	120.00
V	118.00	105.00	100.00	98.00	130.00
CO	30.00	29.00	23.00	27.00	32.00
NI	46.00	46.00	35.00	37.00	78.00
MB	3.00	3.00	8.00	4.00	3.00
RB	156.00	136.00	183.00	166.00	153.00
SR	56.00	162.00	48.00	51.00	56.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1179	F1180	F1181	F13718	F13719
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3164	3165	3166	3168	3169
SI 02	52.21	51.32	58.82	56.97	56.66
TI 02	.16	.36	.40	.66	.50
AL2 03	21.29	20.11	17.74	21.50	20.73
FE2 03	8.51	9.66	8.21	8.40	8.24
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.13	.10	.07	.06
MG 0	1.91	2.14	1.52	2.41	2.07
CA 0	1.04	.95	.50	.82	.38
NA2 0	.50	.64	.40	1.02	1.06
K2 0	4.80	4.40	4.11	4.12	3.72
P2 05	.18	.18	.18	.10	.13
S	.06	.15	.17	.23	.23
L.O.I.	9.28	9.95	7.85	3.69	6.21
TOTAL	100.00	99.99	100.00	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	932.00	924.00	1103.00	895.00	730.00
CU	14.00	19.00	50.00	27.00	27.00
PB	22.00	22.00	180.00	51.00	62.00
ZN	76.00	96.00	166.00	120.00	116.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	99.00	99.00	98.00	90.00	84.00
V	122.00	108.00	97.00	115.00	103.00
CO	31.00	27.00	26.00	29.00	27.00
NI	50.00	44.00	38.00	43.00	39.00
MB	3.00	4.00	3.00	3.00	3.00
RB	200.00	187.00	157.00	161.00	164.00
SR	47.00	42.00	50.00	116.00	115.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F13720	F13721	F13722	F13724	F13725
ROCK TYPE	1D	1D	1D	1D+1F	1D
SEQUENCE NO	3170	3171	3172	3173	3174
SI 02	53.43	57.76	55.57	51.03	58.79
TI 02	.63	.60	.66	1.25	.49
AL2 03	20.97	20.77	22.43	19.39	20.50
FE2 03	9.92	8.65	8.05	9.80	8.23
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.06	.06	.13	.05
MG 0	2.54	2.36	2.50	4.82	2.23
CA 0	.71	1.51	1.00	4.07	.42
NA2 0	.86	.90	.93	.98	.68
K2 0	3.68	3.38	4.21	2.36	3.62
P2 05	.13	.38	.19	.34	.15
S	.42	.46	.15	.17	.36
L.O.I.	6.63	3.17	4.26	5.66	4.46
TOTAL	100.00	100.00	100.01	100.00	99.98

TRACE ELEMENT CHEMISTRY (PPM)

BA	962.00	793.00	1017.00	748.00	933.00
CU	40.00	40.00	30.00	39.00	62.00
PB	40.00	30.00	28.00	50.00	40.00
ZN	130.00	109.00	94.00	156.00	130.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	104.00	96.00	110.00	260.00	95.00
V	116.00	116.00	100.00	170.00	108.00
CO	31.00	28.00	29.00	43.00	31.00
NI	51.00	36.00	37.00	120.00	49.00
MB	3.00	4.00	3.00	4.00	4.00
RB	154.00	134.00	179.00	105.00	156.00
SR	103.00	105.00	110.00	225.00	104.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F13726	F15751	F15752	F15753	F15754
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3175	3176	3177	3178	3179
SI O2	59.35	54.62	58.61	54.21	61.88
TI O2	.52	.55	.47	.55	.54
AL2 O3	20.08	22.09	19.67	21.66	16.22
FE2 O3	7.65	9.09	8.61	8.72	8.35
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.06	.07	.09	.08	.08
MG O	2.07	2.34	2.07	2.09	2.18
CA O	.72	1.00	.57	.71	1.51
NA2 O	.65	.83	.90	.71	.66
K2 O	4.02	4.07	2.91	3.73	2.57
P2 O5	.15	.21	.18	.20	.16
S	.17	.12	.05	.21	.31
L.O.I.	4.55	5.00	5.87	7.14	5.53
TOTAL	99.99	99.99	100.00	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	971.00	1136.00	902.00	986.00	804.00
CU	32.00	33.00	22.00	28.00	30.00
PB	40.00	22.00	34.00	22.00	60.00
ZN	131.00	131.00	104.00	116.00	137.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	99.00	80.00	73.00	78.00	75.00
V	110.00	125.00	100.00	115.00	100.00
CO	28.00	32.00	30.00	31.00	32.00
NI	40.00	47.00	39.00	45.00	45.00
MB	3.00	3.00	2.00	4.00	3.00
RB	174.00	162.00	117.00	161.00	116.00
SR	119.00	114.00	124.00	107.00	153.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15755	F15756	F15757	F15758	F15759
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3180	3181	3183	3184	3185
SI O2	54.79	57.75	53.31	57.39	55.86
TI O2	.53	.51	.46	.50	.53
AL2 O3	20.31	20.89	21.88	19.73	20.19
FE2 O3	9.60	8.38	8.95	7.63	8.02
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.12	.06	.06	.05	.05
MG O	2.67	2.11	2.37	2.12	2.13
CA O	1.59	.60	.95	.68	.55
NA2 O	.68	.75	.68	.50	.67
K2 O	3.12	3.67	4.23	3.41	3.72
P2 O5	.15	.16	.15	.18	.14
S	.48	.20	.21	.19	.33
L.O.I.	5.95	4.92	6.75	7.62	7.81
TOTAL	99.99	100.00	100.00	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1268.00	897.00	909.00	884.00	1001.00
CU	56.00	32.00	35.00	26.00	33.00
PB	40.00	23.00	24.00	15.00	18.00
ZN	156.00	118.00	117.00	107.00	94.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	85.00	95.00	85.00	59.00	50.00
V	115.00	102.00	100.00	90.00	90.00
CO	35.00	30.00	34.00	29.00	29.00
NI	48.00	41.00	53.00	39.00	37.00
MB	3.00	3.00	3.00	4.00	4.00
RB	127.00	165.00	177.00	147.00	156.00
SR	128.00	126.00	133.00	110.00	112.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15760	F15761	F15762	F15763	F15764
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3186	3187	3188	3189	3190
SI 02	59.66	55.34	67.79	60.19	55.53
TI 02	.56	.53	.35	.49	.61
AL2 03	19.92	20.93	16.19	19.70	22.05
FE2 03	6.44	9.04	6.80	6.93	9.66
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.08	.05	.09	.05
MG 0	1.73	2.67	1.79	1.91	2.27
CA 0	.96	1.36	.82	1.71	.51
NA2 0	.65	1.01	.96	1.00	.96
K2 0	3.87	3.67	2.87	3.57	3.84
P2 05	.22	.25	.16	.18	.18
S	.38	.22	.12	.13	.90
L.O.I.	5.55	4.91	2.09	4.09	3.45
TOTAL	99.99	100.01	99.99	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	1096.00	981.00	752.00	956.00	854.00
CU	44.00	44.00	33.00	43.00	80.00
PB	30.00	16.00	23.00	28.00	18.00
ZN	106.00	97.00	61.00	76.00	84.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	55.00	80.00	78.00	86.00	104.00
V	85.00	120.00	80.00	110.00	120.00
CO	25.00	32.00	27.00	28.00	37.00
NI	31.00	46.00	29.00	34.00	53.00
MB	4.00	3.00	4.00	4.00	4.00
RB	146.00	153.00	122.00	139.00	167.00
SR	105.00	109.00	122.00	181.00	105.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15765	F15766	F15767	F15768	F15769
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3191	3192	3193	3194	3195
SI 02	55.47	58.11	54.57	53.43	61.08
TI 02	.52	.52	.61	.50	.60
AL2 03	22.25	20.01	22.67	19.15	19.32
FE2 03	8.31	8.23	8.37	10.23	7.81
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.07	.08	.14	.05
MG 0	2.08	2.03	2.17	3.14	2.03
CA 0	1.36	.60	.80	2.61	.55
NA2 0	.98	.77	1.05	.95	.91
K2 U	3.98	3.72	3.81	3.06	3.52
P2 05	.22	.19	.15	.18	.20
S	.25	.23	.21	.40	.31
L.O.I.	4.48	5.50	5.51	6.22	3.61
TOTAL	100.00	99.98	100.00	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	866.00	826.00	917.00	775.00	827.00
CU	24.00	24.00	21.00	38.00	29.00
PB	24.00	19.00	25.00	22.00	30.00
ZN	82.00	83.00	80.00	76.00	76.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	88.00	83.00	105.00	80.00	87.00
V	98.00	106.00	125.00	85.00	110.00
CO	29.00	29.00	31.00	31.00	32.00
NI	34.00	40.00	34.00	38.00	39.00
MB	4.00	3.00	4.00	3.00	4.00
RB	172.00	174.00	172.00	145.00	162.00
SR	138.00	111.00	127.00	169.00	96.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15770	F15771	F15772	F15774	F15776
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3196	3197	3198	3200	3202
SI O2	62.29	52.06	60.18	56.64	59.49
TI O2	.49	.61	.49	.46	.46
AL2 O3	18.72	22.56	17.25	19.61	17.89
FE2 O3	7.96	8.75	7.64	7.76	8.13
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.09	.09	.07	.07	.08
MG O	2.01	2.30	1.86	1.86	1.87
CA O	.84	.86	.72	.81	.58
NA2 O	.86	.93	.75	1.15	1.11
K2 O	3.07	3.68	2.93	3.60	3.07
P2 O5	.25	.22	.18	.13	.09
S	.35	.35	.14	.04	.23
L.O.I.	3.07	7.60	7.78	7.87	7.00
TOTAL	100.00	100.01	99.99	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	725.00	863.00	729.00	863.00	834.00
CU	34.00	51.00	32.00	28.00	53.00
PB	32.00	64.00	33.00	22.00	16.00
ZN	70.00	109.00	107.00	125.00	109.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	81.00	94.00	80.00	83.00	78.00
V	100.00	116.00	108.00	115.00	110.00
CO	27.00	31.00	28.00	29.00	35.00
NI	40.00	50.00	50.00	38.00	57.00
MB	3.00	4.00	3.00	4.00	3.00
RB	134.00	170.00	140.00	168.00	139.00
SR	106.00	115.00	102.00	122.00	108.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

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GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F15778

ROCK TYPE 1D

SEQUENCE NO 3204

SI 02	57.93
TI 02	.41
AL2 03	14.26
FE2 03	9.23
FE 0	-.01
MN 0	.09
MG 0	2.69
CA 0	3.21
NA2 0	.88
K2 0	2.06
P2 05	.21
S	.21
L.O.I.	8.82

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	553.00
CU	42.00
PB	16.00
ZN	90.00
CD	0.
AG	.20
CR	63.00
V	85.00
CO	34.00
NI	38.00
MB	3.00
RB	100.00
SR	169.00
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	C1207	C19743	C15773
ROCK TYPE	STD SY-3	STD SY-3	STD SY-3
SEQUENCE NO	3107	3151	3199
SI O2	59.06	59.87	59.45
TI O2	.13	.14	.13
AL2 O3	11.47	11.75	11.96
FE2 O3	6.86	6.76	7.03
FE O	-.01	-.01	-.01
MN O	.34	.30	.33
MG O	2.65	2.61	2.65
CA O	8.98	8.47	8.48
NA2 O	4.79	4.38	4.29
K2 O	4.39	4.33	4.14
P2 O5	.52	.49	.65
S	.06	.05	.04
L.O.I.	.74	.85	.86
TOTAL	99.99	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	455.00	492.00	445.00
CU	18.00	20.00	17.00
PB	126.00	134.00	131.00
ZN	196.00	195.00	176.00
CD	0.	0.	0.
AG	.20	.20	.20
CR	6.00	5.00	5.00
V	50.00	58.00	50.00
CO	20.00	24.00	20.00
NI	8.00	5.00	4.00
MB	3.00	3.00	3.00
RB	181.00	193.00	176.00
SR	240.00	250.00	251.00
ZR	310.00	-.01	-.01
Y	728.00	-.01	-.01

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GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F1232

ROCK TYPE 2A

SEQUENCE NO 3136

SI 02	62.55
TI 02	.20
AL2 03	10.16
FE2 03	13.75
FE 0	-.01
MN 0	.04
MG 0	.53
CA 0	.18
NA2 0	.18
K2 0	2.99
P2 05	.07
S	7.44
L.O.I.	1.92

TOTAL 100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	2093.00
CU	500.00
PB	200.00
ZN	520.00
CD	.60
AG	1.40
CR	65.00
V	180.00
CO	120.00
NI	39.00
MB	8.00
RB	96.00
SR	15.00
ZR	-.01
Y	-.01

PROCESSING COMPLETE
STOP

PQS001 GEOCHM

MG

AT: 01/11/80 09:13:43 JOB: 38541 UU 40-01-002 6043244320 3 COPY: 1 *

NORM3.GE BY SPECIFIED ROCK CODES

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1863	788	1907	812
ROCK TYPE	1F	1F	1F	1F
SEQUENCE NO	1001	1002	1003	1004
SI 02	49.66	54.35	49.33	51.38
TI 02	1.03	1.32	2.69	2.61
AL2 03	16.42	15.07	15.16	13.45
FE2 03	12.49	11.75	13.95	13.96
FE 0	-.01	-.01	-.01	-.01
MN 0	.17	.13	.17	.17
MG 0	6.50	6.23	5.66	6.78
CA 0	10.22	7.33	10.72	10.11
NA2 0	2.84	3.57	1.72	1.11
K2 0	.41	.10	.25	.15
P2 05	.26	.15	.34	.27
S	.61	.02	.26	.18
L.O.I.	0.	0.	0.	0.
TOTAL	100.61	100.02	100.25	100.17

TRACE ELEMENT CHEMISTRY (PPM)

BA	185.00	100.00	145.00	80.00
CU	360.00	24.00	93.00	105.00
PB	44.00	28.00	48.00	14.00
ZN	122.00	106.00	105.00	119.00
CD	1.00	0.	0.	0.
AG	.60	0.	0.	0.
CR	192.00	88.00	118.00	155.00
V	262.00	175.00	320.00	260.00
CO	51.00	55.00	48.00	53.00
NI	79.00	84.00	56.00	112.00
MB	4.00	4.00	5.00	4.00
RB	24.00	6.00	9.00	5.00
SR	390.00	223.00	178.00	88.00
ZR	109.00	82.00	170.00	153.00
Y	16.00	16.00	20.00	17.00

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3519	F19771	F1173	F16331
ROCK TYPE	1F	1F	1F	1F
SEQUENCE NO	3039	3157	3158	3218
SI 02	51.12	70.18	51.43	52.30
TI 02	.68	.65	1.30	1.53
AL2 03	12.92	9.59	13.31	15.87
FE2 03	12.81	9.59	12.35	10.68
FE 0	-.01	-.01	-.01	-.01
MN 0	.14	.16	.19	.14
MG 0	12.26	4.47	12.78	7.63
CA 0	5.58	3.16	6.60	8.34
NA2 0	.77	.60	1.49	1.38
K2 0	3.56	1.47	.32	1.93
P2 05	.16	.13	.23	.18
S	.27	.12	.51	.01
L.O.I.	0.	0.	0.	0.
TOTAL	100.27	100.12	100.51	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	610.00	501.00	670.00	499.00
CU	73.00	49.00	64.00	7.00
PB	24.00	10.00	440.00	20.00
ZN	206.00	48.00	390.00	97.00
CD	0.	0.	2.90	0.
AG	0.	.20	1.40	.20
CR	830.00	84.00	720.00	370.00
V	136.00	96.00	230.00	205.00
CO	60.00	33.00	60.00	46.00
NI	440.00	92.00	360.00	170.00
MB	2.00	4.00	3.00	3.00
RB	197.00	82.00	17.00	88.00
SR	118.00	86.00	164.00	164.00
ZR	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1922	1025	1917	366	1559
ROCK TYPE	3C	3C	3C	3C	3C
SEQUENCE NO	1005	1006	1007	1008	1009
SI O2	48.76	50.06	49.03	50.80	46.91
TI O2	1.66	1.83	1.83	1.91	3.69
AL2 O3	12.22	15.71	15.90	15.31	16.14
FE2 O3	12.32	11.86	11.69	12.27	13.62
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.18	.15	.14	.17	.14
MG O	9.86	6.28	7.28	6.89	5.45
CA O	12.32	9.93	9.74	9.23	9.58
NA2 O	2.26	3.55	4.10	2.84	3.63
K2 O	.21	.41	.05	.41	.50
P2 O5	.22	.23	.23	.18	.33
S	.13	.01	.01	.10	.25
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.14	100.02	100.00	100.11	100.24

TRACE ELEMENT CHEMISTRY (PPM)

BA	150.00	130.00	102.00	235.00	100.00
CU	108.00	56.00	111.00	58.00	210.00
PB	48.00	25.00	19.00	48.00	15.00
ZN	110.00	95.00	75.00	148.00	106.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	.30
CR	420.00	165.00	305.00	280.00	20.00
V	252.00	276.00	236.00	312.00	303.00
CO	58.00	46.00	50.00	59.00	55.00
NI	144.00	56.00	112.00	80.00	29.00
MB	5.00	4.00	4.00	5.00	6.00
RB	7.00	17.00	5.00	11.00	21.00
SR	444.00	485.00	970.00	507.00	450.00
ZR	78.00	95.00	71.00	85.00	237.00
Y	10.00	14.00	11.00	26.00	32.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	151	1552
ROCK TYPE	3C	3C
SEQUENCE NO	1010	1011

SI O2	49.03	51.50
TI O2	2.53	1.09
AL2 O3	15.30	15.47
FE2 O3	13.27	11.28
FE O	-.01	-.01
MN O	.17	.17
MG O	7.19	7.09
CA O	8.81	10.48
NA2 O	3.14	2.69
K2 O	.32	.15
P2 O5	.23	.09
S	.01	.01
L.O.I.	0.	0.

TOTAL	100.00	100.02
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TRACE ELEMENT CHEMISTRY (PPM)

BA	245.00	125.00
CU	119.00	8.00
PB	32.00	20.00
ZN	200.00	105.00
CD	0.	0.
AG	0.	0.
CR	250.00	235.00
V	490.00	156.00
CO	63.00	49.00
NI	120.00	116.00
MB	4.00	5.00
RB	14.00	12.00
SR	401.00	187.00
ZR	142.00	43.00
Y	26.00	17.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1926	921	987	887	905
ROCK TYPE	3G	3G	3G	3G	3G
SEQUENCE NO	1012	1013	1014	1015	1016
SI 02	63.17	57.08	58.65	62.90	62.74
TI 02	.60	.59	.78	.37	.84
AL2 03	19.84	24.75	18.86	19.56	19.35
FE2 03	7.92	9.60	13.61	9.79	8.45
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.03	.06	.14	.07	.08
MG 0	2.81	2.15	2.60	2.07	2.13
CA 0	.42	.26	.57	.26	.23
NA2 0	.75	1.18	1.60	.37	.68
K2 0	4.26	4.21	3.09	4.44	5.36
P2 05	.21	.12	.10	.17	.14
S	.02	.01	.01	.02	.15
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.03	100.01	100.01	100.02	100.15

TRACE ELEMENT CHEMISTRY (PPM)

BA	1080.00	961.00	670.00	2518.00	828.00
CU	12.00	23.00	24.00	70.00	26.00
PB	19.00	24.00	26.00	32.00	36.00
ZN	87.00	117.00	74.00	380.00	20.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	194.00	120.00	120.00	180.00	175.00
V	84.00	113.00	96.00	110.00	112.00
CO	23.00	37.00	38.00	24.00	19.00
NI	22.00	30.00	62.00	34.00	12.00
MB	5.00	4.00	4.00	4.00	4.00
RB	165.00	170.00	97.00	170.00	196.00
SR	110.00	126.00	94.00	60.00	94.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1898	1897	1901	1684	1166
ROCK TYPE	3G	3G	3G	3G	3G
SEQUENCE NO	1017	1018	1019	1020	1021
SI 02	59.41	57.97	61.61	61.63	60.95
TI 02	.77	1.09	.76	.80	.96
AL2 03	19.30	20.30	18.91	20.13	21.22
FE2 03	6.33	11.51	7.51	9.09	9.01
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.15	.06	.05	.07
MG 0	2.95	2.05	2.92	2.11	1.92
CA 0	4.98	.92	2.29	.73	.29
NA2 0	1.73	1.36	1.30	1.14	.97
K2 0	4.35	4.50	4.50	4.17	4.44
P2 05	.13	.16	.15	.16	.16
S	.02	.12	.06	.04	.02
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.03	100.13	100.07	100.05	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	1370.00	690.00	893.00	640.00	868.00
CU	14.00	32.00	26.00	24.00	32.00
PB	11.00	18.00	10.00	27.00	14.00
ZN	72.00	30.00	72.00	61.00	98.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	135.00	178.00	120.00	178.00	115.00
V	90.00	180.00	84.00	110.00	110.00
CO	25.00	25.00	26.00	36.00	30.00
NI	32.00	21.00	28.00	33.00	34.00
MB	4.00	4.00	3.00	5.00	4.00
RB	195.00	146.00	153.00	154.00	147.00
SR	234.00	62.00	168.00	25.00	175.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	711	706	597	844	20
ROCK TYPE	3G	3G	3G	3G	3G
SEQUENCE NO	1022	1023	1024	1025	1026
SI 02	58.43	53.88	56.59	58.96	60.00
TI 02	.86	.81	.80	.97	1.09
AL2 03	20.88	20.89	20.00	21.99	20.03
FE2 03	7.42	9.09	7.90	9.05	10.74
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.08	.10	.06	.14
MG 0	2.22	2.64	2.46	2.51	2.02
CA 0	2.87	4.88	7.14	.52	.88
NA2 0	1.94	2.07	1.76	1.94	1.03
K2 0	5.22	5.55	3.12	3.82	3.87
P2 05	.11	.11	.12	.17	.19
S	.01	.04	.04	.01	.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.01	100.04	100.03	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	750.00	848.00	560.00	728.00	970.00
CU	14.00	77.00	22.00	4.00	47.00
PB	26.00	38.00	33.00	10.00	36.00
ZN	78.00	123.00	82.00	65.00	122.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	162.00	180.00	196.00	130.00	166.00
V	115.00	110.00	125.00	147.00	160.00
CO	30.00	41.00	35.00	38.00	38.00
NI	33.00	45.00	41.00	40.00	48.00
MB	4.00	4.00	5.00	3.00	4.00
RB	181.00	253.00	118.00	127.00	145.00
SR	513.00	493.00	565.00	88.00	120.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	78-FIN-01	3083	3088	3723	3759
ROCK TYPE	3G	3G	3G	3G/D	3G
SEQUENCE NO	2043	2047	2048	2049	2050
SI 02	59.51	54.40	57.47	59.54	62.64
TI 02	.57	.68	.83	.55	.47
AL2 03	22.97	25.94	24.94	18.37	20.95
FE2 03	9.08	10.46	8.52	6.26	7.33
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.13	.10	.06	.05
MG 0	2.09	2.30	1.56	2.93	1.99
CA 0	.52	.26	.26	8.07	.42
NA2 0	1.15	.58	.78	1.16	1.78
K2 0	3.86	5.02	5.40	2.93	4.19
P2 05	.19	.23	.14	.14	.17
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.00	100.00	100.00	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	3766	5893
ROCK TYPE	3G	3G
SEQUENCE NO	2051	2052

SI 02	48.59	49.37
TI 02	1.71	.12
AL2 03	24.19	13.03
FE2 03	13.85	13.15
FE 0	-.01	-.01
MN 0	.12	.63
MG 0	4.14	8.73
CA 0	.88	11.60
NA2 0	1.29	1.32
K2 0	4.96	1.73
P2 05	.27	.32
S	-.01	-.01
L.O.I.	0.	0.

TOTAL	100.00	100.00
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1778	1142	1192	1329	1080
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	1028	1029	1030	1031	1032
SI 02	45.49	49.59	51.85	48.33	48.07
TI 02	1.20	1.44	1.17	1.10	1.46
AL2 03	7.05	15.57	8.30	14.86	13.45
FE2 03	14.10	10.72	13.63	10.58	11.47
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.17	.12	.14	.14	.18
MG 0	23.92	9.79	20.23	9.46	10.84
CA 0	7.69	8.14	4.21	12.01	10.74
NA2 0	.21	2.99	.21	2.65	2.40
K2 0	.03	1.39	.11	.71	1.20
P2 05	.15	.24	.16	.16	.19
S	.03	.01	.01	.02	.05
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.04	100.00	100.02	100.02	100.05

TRACE ELEMENT CHEMISTRY (PPM)

BA	70.00	1630.00	91.00	658.00	4242.00
CU	80.00	81.00	8.00	120.00	138.00
PB	7.00	3.00	5.00	8.00	9.00
ZN	82.00	122.00	85.00	70.00	78.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	1030.00	230.00	1200.00	460.00	445.00
V	152.00	220.00	96.00	170.00	230.00
CO	88.00	50.00	86.00	56.00	56.00
NI	790.00	112.00	740.00	154.00	154.00
MB	3.00	4.00	2.00	5.00	4.00
RB	4.00	29.00	7.00	18.00	22.00
SR	69.00	372.00	23.00	650.00	208.00
ZR	60.00	117.00	37.00	46.00	82.00
Y	6.00	16.00	1.00	14.00	11.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1241	1776	1214	742	1459
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	1033	1034	1035	1036	1037
SI 02	62.29	49.50	49.32	48.69	45.32
TI 02	.72	1.52	1.84	2.08	3.35
AL2 03	13.92	11.66	13.92	14.25	16.87
FE2 03	7.27	11.87	12.28	12.30	15.95
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.15	.15	.19	.13
MG 0	5.57	12.72	7.88	7.38	7.62
CA 0	4.02	9.54	10.33	11.79	2.64
NA2 0	5.67	2.76	2.05	2.87	3.56
K2 0	.26	.05	1.94	.21	4.12
P2 05	.21	.23	.29	.24	.45
S	.11	.03	.07	.05	.02
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.11	100.03	100.07	100.05	100.03

TRACE ELEMENT CHEMISTRY (PPM)

BA	248.00	85.00	1408.00	116.00	1852.00
CU	52.00	133.00	84.00	138.00	14.00
PB	8.00	2.00	10.00	28.00	5.00
ZN	55.00	93.00	103.00	96.00	98.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	165.00	1060.00	332.00	225.00	20.00
V	75.00	252.00	158.00	312.00	178.00
CO	40.00	67.00	57.00	56.00	60.00
NI	141.00	268.00	148.00	105.00	33.00
MB	5.00	4.00	4.00	4.00	3.00
RB	11.00	2.00	39.00	6.00	84.00
SR	139.00	143.00	296.00	359.00	216.00
ZR	173.00	105.00	138.00	122.00	247.00
Y	19.00	27.00	28.00	29.00	32.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1487	692	1480	758A	758B
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	1038	1039	1040	1041	1042
SI O2	49.39	52.24	47.64	50.29	51.19
TI O2	1.92	2.36	.51	1.13	1.32
AL2 O3	20.73	17.41	17.85	12.94	14.11
FE2 O3	11.98	12.13	15.00	11.68	12.10
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.04	.08	.11	.17	.17
MG O	6.67	6.32	5.37	10.77	10.86
CA O	1.88	2.75	6.90	11.23	8.29
NA2 O	4.53	4.87	5.15	1.49	1.62
K2 O	2.14	1.24	.77	.11	.17
P2 O5	.73	.58	.70	.18	.17
S	.01	.04	.05	.01	.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.02	100.02	100.05	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	1557.00	737.00	253.00	191.00	202.00
CU	14.00	67.00	44.00	110.00	110.00
PB	4.00	18.00	2.00	114.00	142.00
ZN	75.00	66.00	67.00	106.00	114.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	10.00	15.00	15.00	610.00	660.00
V	90.00	205.00	105.00	205.00	210.00
CO	38.00	44.00	53.00	60.00	65.00
NI	6.00	2.00	25.00	252.00	264.00
MB	3.00	4.00	4.00	4.00	4.00
RB	31.00	24.00	17.00	6.00	10.00
SR	362.00	176.00	263.00	197.00	186.00
ZR	430.00	317.00	340.00	95.00	91.00
Y	32.00	41.00	27.00	21.00	20.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1497	1402	1413
ROCK TYPE	5C	5C	5C
SEQUENCE NO	1043	1044	1045

SI O2	48.98	48.24	52.13
TI O2	1.65	2.44	1.21
AL2 O3	15.60	14.78	14.89
FE2 O3	11.30	10.88	15.43
FE O	-.01	-.01	-.01
MN O	.16	.13	.18
MG O	6.49	8.83	6.69
CA O	11.93	11.29	5.94
NA2 O	3.61	2.98	3.13
K2 O	.05	.10	.11
P2 O5	.22	.33	.28
S	.07	.03	.02
L.O.I.	0.	0.	0.

TOTAL	100.06	100.03	100.01
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TRACE ELEMENT CHEMISTRY (PPM)

BA	141.00	118.00	218.00
CU	126.00	580.00	105.00
PB	38.00	12.00	4.00
ZN	99.00	60.00	80.00
CD	0.	0.	0.
AG	0.	0.	0.
CR	140.00	140.00	68.00
V	207.00	267.00	270.00
CO	47.00	54.00	56.00
NI	85.00	93.00	62.00
MB	5.00	5.00	4.00
RB	7.00	0.	5.00
SR	662.00	3000.00	266.00
ZR	80.00	26.00	130.00
Y	23.00	24.00	6.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4228A	4228B	5531	5556	5564
ROCK TYPE	5C	5C	5C	5C	5C
SEQUENCE NO	2001	2002	2003	2004	2005
SI 02	48.67	49.70	48.33	58.25	47.22
TI 02	1.25	1.26	4.85	.21	2.32
AL2 03	16.08	15.66	15.90	21.43	19.54
FE2 03	3.86	3.31	5.16	4.00	3.80
FE 0	8.98	8.77	9.81	2.13	9.40
MN 0	.16	.15	.22	.08	.17
MG 0	8.36	8.62	5.78	4.16	4.44
CA 0	7.73	7.88	4.96	2.08	6.55
NA2 0	4.07	3.89	4.13	5.20	5.65
K2 0	.57	.53	.26	2.29	.42
P2 05	.26	.24	.60	.17	.48
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.01	100.00	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	120.00	125.00	260.00	145.00	175.00
Y	0.	0.	16.00	11.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	5596	5689	5882	76X-11-1	5905
ROCK TYPE	5CU	5CG	5C	5C	5C
SEQUENCE NO	2006	2007	2008	2039	2089
SI 02	50.02	43.83	58.93	56.33	45.65
TI 02	3.41	4.94	.95	.16	3.98
AL2 03	13.84	12.54	18.31	19.22	14.66
FE2 03	5.00	5.44	3.79	1.10	18.85
FE 0	10.54	12.87	6.37	5.65	-.01
MN 0	.20	.24	.08	.05	.18
MG 0	5.11	7.05	4.21	3.40	5.55
CA 0	7.45	8.88	1.84	8.78	5.24
NA2 0	3.72	3.44	3.16	1.43	4.19
K2 0	.21	.39	2.05	3.73	.99
P2 05	.50	.40	.32	.13	.72
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.00	100.02	100.01	99.98	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	175.00	145.00	185.00	150.00	-.01
Y	6.00	0.	13.00	11.00	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1739	1720
ROCK TYPE	SF	SF
SEQUENCE NO	1046	1047

SI 02	47.63	46.39
TI 02	2.90	.95
AL2 03	17.87	13.37
FE2 03	13.88	13.95
FE 0	-.01	-.01
MN 0	.15	.17
MG 0	6.41	10.12
CA 0	6.31	14.30
NA2 0	4.31	.33
K2 0	.06	.17
P2 05	.47	.24
S	.04	.01
L.O.I.	0.	0.

TOTAL	100.03	100.00
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TRACE ELEMENT CHEMISTRY (PPM)

BA	160.00	115.00
CU	24.00	66.00
PB	7.00	22.00
ZN	103.00	126.00
CD	0.	0.
AG	0.	0.
CR	38.00	375.00
V	132.00	193.00
CO	55.00	52.00
NI	43.00	244.00
MB	3.00	3.00
RB	4.00	5.00
SR	275.00	258.00
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1129	1135	1912	1138	1481
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	1048	1049	1050	1051	1052
SI O2	48.47	48.96	47.32	52.22	53.88
TI O2	2.44	.53	2.63	1.17	1.43
AL2 O3	15.00	15.14	17.29	20.43	18.17
FE2 O3	13.85	13.70	16.98	12.33	11.94
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.17	.14	.08	.02	.02
MG O	9.23	9.17	8.49	3.30	7.82
CA O	5.87	9.06	1.75	5.84	1.11
NA2 O	3.78	2.82	4.77	.36	4.33
K2 O	.89	.06	.30	3.84	.85
P2 O5	.29	.41	.38	.50	.45
S	.02	.10	.87	.04	.03
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.01	100.09	100.86	100.05	100.03

TRACE ELEMENT CHEMISTRY (PPM)

BA	1953.00	146.00	1160.00	706.00	2928.00
CU	66.00	52.00	144.00	52.00	13.00
PB	6.00	10.00	20.00	10.00	25.00
ZN	94.00	97.00	82.00	68.00	78.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	190.00	240.00	90.00	130.00	20.00
V	290.00	200.00	288.00	182.00	220.00
CO	46.00	62.00	64.00	57.00	38.00
NI	68.00	182.00	72.00	96.00	22.00
MB	3.00	4.00	4.00	4.00	3.00
RB	15.00	5.00	3.00	48.00	17.00
SR	214.00	197.00	74.00	39.00	45.00
ZR	160.00	195.00	222.00	442.00	365.00
Y	15.00	14.00	14.00	26.00	36.00

GEOCHEMICAL DATA (PERCENT)

GROUP 1

SPECIMEN ID	1458	1505	1617	830
ROCK TYPE	MCV	MCV	MCV	MCV
SEQUENCE NO	1053	1054	1055	1056
SI 02	49.37	49.85	50.92	47.23
TI 02	1.15	1.25	2.66	1.56
AL2 03	15.76	15.35	12.99	17.01
FE2 03	12.67	15.13	12.99	15.21
FE 0	-.01	-.01	-.01	-.01
MN 0	.09	.13	.15	.10
MG 0	5.29	6.53	6.18	8.03
CA 0	9.48	7.40	9.07	4.67
NA2 0	5.40	3.54	4.23	4.01
K2 0	.50	.49	.52	1.32
P2 05	.30	.33	.30	.86
S	.14	.07	.02	.06
L.O.I.	0.	0.	0.	0.
TOTAL	100.15	100.07	100.03	100.06

TRACE ELEMENT CHEMISTRY (PPM)

BA	931.00	2627.00	600.00	515.00
CU	117.00	145.00	100.00	53.00
PB	9.00	8.00	10.00	4.00
ZN	90.00	144.00	110.00	75.00
CD	0.	0.	0.	0.
AG	0.	0.	0.	0.
CR	215.00	65.00	185.00	10.00
V	275.00	285.00	193.00	150.00
CO	54.00	52.00	52.00	53.00
NI	125.00	47.00	98.00	13.00
MB	4.00	4.00	4.00	3.00
RB	12.00	9.00	9.00	19.00
SR	282.00	264.00	333.00	506.00
ZR	156.00	175.00	188.00	241.00
Y	27.00	31.00	27.00	21.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4197	4198	4219	4474	4505
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2016	2017	2018	2020	2021
SI 02	48.75	50.12	47.78	48.75	50.67
TI 02	1.59	2.39	1.27	1.78	2.57
AL2 03	16.97	14.73	13.63	18.87	15.82
FE2 03	2.67	2.54	2.75	3.13	3.37
FE 0	7.30	9.34	8.72	8.63	10.15
MN 0	.15	.21	.16	.15	.12
MG 0	6.48	7.68	7.61	9.49	5.02
CA 0	10.28	8.09	13.21	3.45	7.27
NA2 0	2.88	4.00	4.44	4.64	4.28
K2 0	2.67	.52	.11	.49	.27
P2 05	.25	.38	.33	.63	.47
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.00	100.01	100.01	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	94.00	160.00	120.00	115.00	185.00
Y	0.	0.	0.	0.	5.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4506	4648	4663	4692	4955
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2022	2023	2024	2025	2026
SI O2	49.18	48.10	48.83	48.01	46.26
TI O2	3.48	1.55	2.78	2.73	1.86
AL2 O3	15.06	15.93	15.86	13.97	11.14
FE2 O3	1.84	1.76	5.15	3.27	2.76
FE O	10.24	9.05	9.45	9.11	9.95
MN O	.15	.16	.19	.15	.13
MG O	5.74	9.52	5.36	6.33	15.10
CA O	8.61	8.59	9.66	10.69	10.78
NA2 O	3.89	3.41	2.31	4.58	1.08
K2 O	1.33	1.66	0.	.71	.60
P2 O5	.47	.28	.41	.45	.35
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.01	100.00	100.00	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	190.00	135.00	160.00	175.00	145.00
Y	10.00	0.	6.00	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4957	5009	5329	5535	5549
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2027	2090	2091	2092	2093
SI 02	47.64	49.56	46.77	49.17	44.12
TI 02	3.87	2.95	4.20	4.04	.63
AL2 03	16.93	15.82	15.13	14.70	10.64
FE2 03	5.22	5.75	7.04	4.87	2.40
FE 0	8.99	7.59	8.41	8.90	8.45
MN 0	.16	.19	.18	.16	.21
MG 0	5.33	5.90	5.78	5.80	24.20
CA 0	6.06	10.02	6.73	7.76	8.45
NA2 0	4.70	1.69	4.10	3.11	.37
K2 0	.52	.11	1.05	.98	.16
P2 05	.59	.43	.61	.52	.40
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.01	100.01	100.00	100.01	100.03

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	245.00	180.00	240.00	220.00	105.00
Y	17.00	0.	15.00	12.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	5573	5623	5764	5794	6331
ROCK TYPE	MCV	MCV	MCV	MCV	MCV
SEQUENCE NO	2094	2095	2096	2097	2098
SI O2	43.77	47.61	51.97	46.51	49.03
TI O2	2.33	1.55	.97	3.61	2.76
AL2 O3	16.88	14.05	16.17	14.89	16.56
FE2 O3	2.15	4.13	3.67	2.98	2.33
FE O	8.09	4.54	9.70	9.57	11.04
MN O	.16	.12	.13	.09	.15
MG O	9.20	7.85	7.22	5.50	12.12
CA O	10.94	14.98	5.50	8.59	2.49
NA2 O	2.10	.52	4.10	1.09	2.92
K2 O	3.90	3.92	.16	6.53	.16
P2 O5	.49	.72	.41	.64	.44
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.01	99.99	100.00	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	175.00	180.00	175.00	250.00	180.00
Y	0.	6.00	0.	8.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	C7902	C7903	C7907	C7904	C7905
ROCK TYPE	STDMRG-1	STDMRG-1	STDMRG-1	STDMRG-1	STDMRG-1
SEQUENCE NO	2019	2029	2040	2099	2108
SI 02	39.74	39.13	39.56	39.46	39.27
TI 02	3.85	4.07	4.49	4.08	4.08
AL2 03	8.52	8.74	8.56	8.57	8.77
FE2 03	9.12	8.74	8.87	8.87	8.98
FE 0	8.57	8.39	8.67	8.67	8.41
MN 0	.17	.17	.18	.17	.17
MG 0	13.99	14.33	13.46	14.17	14.07
CA 0	14.90	15.35	15.09	14.99	15.09
NA2 0	.81	.81	.82	.71	.82
K2 0	.20	.20	.25	.20	.20
P2 05	.12	.06	.06	.10	.13
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	99.99	100.01	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	115.00	117.00	113.00	119.00	111.00
Y	0.	0.	0.	0.	0.

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GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID C7906

ROCK TYPE STDMRG-1

SEQUENCE NO 2117

SI 02	39.85
TI 02	4.07
AL2 03	9.05
FE2 03	8.95
FE 0	8.39
MN 0	.18
MG 0	13.42
CA 0	14.84
NA2 0	.86
K2 0	.25
P2 05	.13
S	-.01
L.O.I.	0.

TOTAL 99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	115.00
Y	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	C1128	C1169	C1182	C15789
ROCK TYPE	STDMRG-1	STDMRG-1	STDMRG-1	STDMRG-1
SEQUENCE NO	3095	3125	3167	3215
SI 02	40.18	39.87	40.22	40.89
TI 02	3.69	3.59	3.63	3.48
AL2 03	8.40	8.81	8.47	9.00
FE2 03	17.42	18.45	18.58	17.99
FE 0	-.01	-.01	-.01	-.01
MN 0	.17	.15	.17	.17
MG 0	13.84	13.73	13.78	13.29
CA 0	15.37	14.14	13.99	14.11
NA2 0	.73	.86	.84	.80
K2 0	.15	.20	.20	.20
P2 05	.04	.18	.10	.07
S	.06	.06	.05	.06
L.O.I.	0.	0.	0.	0.
TOTAL	100.05	100.04	100.03	100.06

TRACE ELEMENT CHEMISTRY (PPM)

BA	165.00	158.00	136.00	225.00
CU	130.00	140.00	135.00	141.00
PB	8.00	8.00	8.00	8.00
ZN	170.00	160.00	160.00	180.00
CD	0.	0.	0.	0.
AG	.20	.20	.20	.20
CR	390.00	380.00	380.00	390.00
V	560.00	580.00	520.00	470.00
CO	78.00	75.00	88.00	72.00
NI	160.00	148.00	190.00	160.00
MB	3.00	4.00	4.00	3.00
RB	12.00	11.00	8.00	7.00
SR	188.00	187.00	195.00	184.00
ZR	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 4974

ROCK TYPE UNK

SEQUENCE NO 2028

SI 02	73.46
TI 02	.21
AL2 03	17.69
FE2 03	.62
FE 0	1.46
MN 0	.03
MG 0	1.30
CA 0	2.08
NA2 0	.52
K2 0	2.50
P2 05	.14
S	-.01
L.O.I.	0.

TOTAL 100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	160.00
Y	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	4327	4762	4768	4324F	3469
ROCK TYPE	KSMB	KSMB	KSMB	KSE	KSE
SEQUENCE NO	2030	2031	2032	2033	2085
SI 02	48.28	47.98	71.04	48.67	48.97
TI 02	1.54	1.66	.72	2.41	.76
AL2 03	19.00	17.34	11.76	14.25	14.37
FE2 03	6.88	6.39	3.53	3.71	14.16
FE 0	4.21	4.83	3.17	16.36	-.01
MN 0	.18	.19	.14	.26	.18
MG 0	4.73	6.13	2.25	3.81	6.78
CA 0	10.99	11.73	3.73	8.13	11.33
NA2 0	3.13	3.12	1.69	1.71	2.83
K2 0	.87	.47	1.79	.15	.56
P2 05	.17	.18	.19	.55	.06
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.98	100.02	100.01	100.01	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	110.00	115.00	125.00	310.00	-.01
Y	7.00	0.	0.	75.00	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	2323	3465	3500
ROCK TYPE	KSMB	KSMB	KSMB
SEQUENCE NO	2118	2119	2120

SI O2	52.19	52.51	55.07
TI O2	1.85	1.04	.97
AL2 O3	15.72	16.68	16.41
FE2 O3	3.54	2.69	3.38
FE O	7.40	6.94	7.38
MN O	.18	.18	.18
MG O	6.88	6.32	4.61
CA O	8.53	7.35	6.15
NA2 O	2.31	3.78	4.36
K2 O	.98	2.33	1.28
P2 O5	.41	.19	.18
S	-.01	-.01	-.01
L.O.I.	0.	0.	0.
TOTAL	99.99	100.01	99.97

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01
CU	-.01	-.01	-.01
PB	-.01	-.01	-.01
ZN	-.01	-.01	-.01
CD	-.01	-.01	-.01
AG	-.01	-.01	-.01
CR	-.01	-.01	-.01
V	-.01	-.01	-.01
CO	-.01	-.01	-.01
NI	-.01	-.01	-.01
MB	-.01	-.01	-.01
RB	-.01	-.01	-.01
SR	-.01	-.01	-.01
ZR	110.00	91.00	82.00
Y	0.	8.00	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-08	77X-05	78X-04	78X-03
ROCK TYPE	5D	5D	5D	5D
SEQUENCE NO	2034	2035	2037	2038
SI 02	51.93	50.03	61.61	53.65
TI 02	.22	.50	.16	1.47
AL2 03	15.35	16.53	19.02	16.51
FE2 03	2.72	2.35	1.53	2.77
FE 0	8.73	9.72	5.44	7.11
MN 0	.17	.22	.08	.12
MG 0	7.90	7.82	2.96	5.43
CA 0	9.56	9.16	3.22	8.25
NA2 0	2.78	.67	1.90	1.74
K2 0	.33	2.57	3.91	2.55
P2 05	.31	.44	.16	.39
S	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.
TOTAL	100.00	100.01	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01
ZR	145.00	175.00	185.00	155.00
Y	0.	11.00	21.00	9.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77LA-02	78-FAT-01	2505	3448
ROCK TYPE	1C	1C	1C	1C
SEQUENCE NO	2041	2042	2044	2045
SI O2	58.13	58.28	64.26	56.68
TI O2	.92	.93	1.03	1.43
AL2 O3	23.07	23.60	16.01	24.20
FE2 O3	9.33	8.59	9.70	8.48
FE O	-.01	-.01	-.01	-.01
MN O	.27	.06	.12	.04
MG O	2.05	2.07	2.05	2.55
CA O	.82	.62	1.23	.51
NA2 O	1.54	1.09	2.36	3.37
K2 O	3.69	4.55	2.77	2.55
P2 O5	.18	.21	.45	.18
S	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.
TOTAL	100.00	100.00	99.98	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3511	F3525	F3270	F3271	F3272
ROCK TYPE	1C	1C6	1C6	1C6	1C6
SEQUENCE NO	3038	3040	3054	3055	3056
SI 02	59.13	59.49	59.90	65.94	60.03
TI 02	.89	.82	.52	.50	.58
AL2 03	20.96	21.68	19.57	17.34	21.43
FE2 03	10.91	10.48	12.57	9.61	9.34
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.22	.05	.04	.04
MG 0	2.03	2.05	2.62	2.27	2.35
CA 0	.75	1.04	.57	.45	.58
NA2 0	.64	.60	.49	.30	.45
K2 0	4.54	3.49	3.55	3.43	5.01
P2 05	.10	.14	.14	.12	.20
S	.57	.28	1.05	.74	.71
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.58	100.29	101.03	100.74	100.72

TRACE ELEMENT CHEMISTRY (PPM)

BA	752.00	830.00	916.00	656.00	831.00
CU	154.00	40.00	116.00	132.00	176.00
PB	18.00	16.00	28.00	28.00	29.00
ZN	52.00	85.00	40.00	42.00	55.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	.60
CR	175.00	160.00	125.00	158.00	122.00
V	117.00	93.00	98.00	93.00	108.00
CO	43.00	33.00	47.00	37.00	33.00
NI	44.00	36.00	34.00	46.00	35.00
MB	3.00	3.00	5.00	4.00	4.00
RB	175.00	141.00	132.00	145.00	177.00
SR	51.00	94.00	38.00	23.00	30.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3274	F3276	F3277	F3279	F3280
ROCK TYPE	1C6	1C6	1C6	1C6	1C6
SEQUENCE NO	3058	3060	3061	3063	3064
SI 02	58.93	58.53	62.01	59.14	60.30
TI 02	.70	.61	.67	.78	.76
AL2 03	21.03	22.22	18.03	21.83	21.02
FE2 03	10.53	9.09	9.41	9.47	9.57
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.04	.05	.06	.04	.04
MG 0	2.56	3.08	4.32	2.92	2.48
CA 0	.54	.69	.76	.43	.37
NA2 0	.40	.43	.32	.30	.32
K2 0	5.12	5.18	4.32	4.98	4.99
P2 05	.14	.12	.09	.10	.14
S	.96	.54	.58	.43	.54
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.95	100.54	100.57	100.42	100.53

TRACE ELEMENT CHEMISTRY (PPM)

BA	834.00	996.00	752.00	866.00	752.00
CU	116.00	290.00	224.00	62.00	102.00
PB	34.00	104.00	109.00	105.00	30.00
ZN	53.00	214.00	220.00	94.00	50.00
CD	0.	.90	0.	0.	0.
AG	0.	.90	.40	1.00	0.
CR	108.00	110.00	132.00	117.00	117.00
V	102.00	91.00	112.00	120.00	106.00
CO	35.00	37.00	38.00	28.00	33.00
NI	35.00	40.00	48.00	36.00	30.00
MB	5.00	4.00	4.00	3.00	3.00
RB	175.00	186.00	175.00	178.00	181.00
SR	25.00	28.00	22.00	27.00	23.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3281	F3282	F3284	F3289	F3290
ROCK TYPE	1C6	1C6	1C6	1C6	1C6
SEQUENCE NO	3065	3066	3068	3073	3074
SI O2	60.29	63.41	57.46	60.95	59.72
TI O2	.68	.63	.75	.70	.87
AL2 O3	20.38	17.18	21.36	19.40	20.05
FE2 O3	10.10	11.35	11.11	10.92	11.88
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.04	.05	.06	.04	.08
MG O	2.44	2.67	3.16	2.61	2.59
CA O	.34	.34	.62	.42	.45
NA2 O	.37	.29	.31	.31	.21
K2 O	5.25	3.98	5.07	4.56	4.03
P2 O5	.12	.12	.10	.10	.12
S	.58	.88	.67	.79	.70
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.59	100.90	100.67	100.80	100.70

TRACE ELEMENT CHEMISTRY (PPM)

BA	900.00	600.00	824.00	820.00	912.00
CU	200.00	260.00	60.00	158.00	230.00
PB	34.00	28.00	27.00	25.00	36.00
ZN	51.00	80.00	47.00	39.00	132.00
CD	0.	0.	0.	0.	.50
AG	.30	.30	0.	0.	1.10
CR	112.00	118.00	115.00	108.00	110.00
V	106.00	92.00	108.00	93.00	98.00
CO	34.00	38.00	29.00	34.00	39.00
NI	34.00	36.00	34.00	35.00	35.00
MB	3.00	4.00	5.00	3.00	3.00
RB	170.00	138.00	191.00	156.00	162.00
SR	23.00	13.00	25.00	25.00	25.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3291	F3292	F3294	F3298	F3412
ROCK TYPE	106	106	106	105	105
SEQUENCE NO	3075	3076	3077	3079	3082
SI 02	61.20	61.32	58.67	59.72	61.10
TI 02	.66	.60	.66	.66	1.16
AL2 03	19.65	19.46	21.08	18.59	18.49
FE2 03	11.01	11.37	11.63	13.03	10.53
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.07	.07	.06	.11
MG 0	2.48	2.54	2.48	2.69	2.42
CA 0	.65	.60	.97	.74	1.41
NA2 0	.24	.25	.23	.24	.84
K2 0	3.94	3.72	4.13	4.17	3.62
P2 05	.11	.09	.10	.11	.31
S	.45	1.20	.72	.65	.50
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.45	101.22	100.74	100.66	100.49

TRACE ELEMENT CHEMISTRY (PPM)

BA	756.00	753.00	742.00	703.00	1281.00
CU	220.00	240.00	210.00	184.00	93.00
PB	46.00	62.00	29.00	15.00	28.00
ZN	132.00	76.00	61.00	112.00	89.00
CD	.40	0.	0.	0.	0.
AG	1.00	.80	.70	0.	.40
CR	105.00	126.00	108.00	103.00	90.00
V	95.00	100.00	90.00	100.00	130.00
CO	38.00	52.00	40.00	43.00	46.00
NI	36.00	44.00	34.00	39.00	38.00
MB	4.00	11.00	3.00	4.00	4.00
RB	137.00	133.00	142.00	157.00	159.00
SR	29.00	31.00	42.00	25.00	60.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3435	F1125	F1126	F1127	F19751
ROCK TYPE	1C6	1C	1C	1C	1C
SEQUENCE NO	3083	3092	3093	3094	3155
SI 02	60.02	59.89	61.65	59.15	60.79
TI 02	.58	.39	.31	.57	.54
AL2 03	20.49	21.56	21.24	24.18	21.14
FE2 03	10.73	10.32	9.04	8.02	9.34
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.04	.11	.09	.03	.07
MG 0	2.20	1.07	1.69	2.18	2.42
CA 0	1.00	.27	.33	.37	1.10
NA2 0	.50	.35	.35	.41	.39
K2 0	4.23	5.88	5.20	4.97	4.07
P2 05	.19	.16	.12	.12	.14
S	.50	5.29	2.60	.71	.40
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.48	105.29	102.62	100.71	100.40

TRACE ELEMENT CHEMISTRY (PPM)

BA	766.00	1480.00	1032.00	1030.00	1202.00
CU	60.00	460.00	780.00	130.00	32.00
PB	14.00	290.00	920.00	30.00	10.00
ZN	44.00	208.00	104.00	49.00	63.00
CD	0.	.30	0.	0.	0.
AG	0.	2.00	5.70	.20	.20
CR	75.00	43.00	64.00	75.00	80.00
V	110.00	88.00	92.00	95.00	112.00
CO	34.00	28.00	26.00	27.00	31.00
NI	35.00	38.00	37.00	37.00	40.00
MB	3.00	3.00	4.00	3.00	4.00
RB	173.00	204.00	194.00	206.00	146.00
SR	49.00	32.00	28.00	39.00	45.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19760	F16305	F16325
ROCK TYPE	1C	1C	1C
SEQUENCE NO	3156	3216	3217

SI 02	59.87	59.96	61.66
TJ 02	.71	.79	.88
AL2 03	22.03	20.52	18.99
FE2 03	8.65	9.78	8.85
FE 0	-.01	-.01	-.01
MN 0	.04	.17	.07
MG 0	2.30	2.16	2.15
CA 0	1.21	.61	1.48
NA2 0	.34	1.11	2.09
K2 0	4.68	4.76	3.65
P2 05	.16	.14	.19
S	.48	.10	.02
L.O.I.	0.	0.	0.

TOTAL	100.47	100.10	100.03
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TRACE ELEMENT CHEMISTRY (PPM)

BA	926.00	808.00	746.00
CU	69.00	16.00	10.00
PB	17.00	10.00	18.00
ZN	64.00	58.00	59.00
CD	0.	0.	0.
AG	.20	.20	.20
CR	85.00	95.00	84.00
V	115.00	115.00	125.00
CO	30.00	31.00	32.00
NI	40.00	38.00	40.00
MB	3.00	3.00	3.00
RB	149.00	180.00	152.00
SR	44.00	71.00	75.00
ZR	-.01	-.01	-.01
Y	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 2942

ROCK TYPE 3E

SEQUENCE NO 2046

SI 02	88.56
TI 02	.10
AL2 03	7.78
FE2 03	.88
FE 0	-.01
MN 0	.01
MG 0	.31
CA 0	.21
NA2 0	.21
K2 0	1.76
P2 05	.18
S	-.01
L.O.I.	0.

TOTAL 100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	C7908	C7909	C7910
ROCK TYPE	STD SY-2	STD SY-2	STD SY-2
SEQUENCE NO	2053	2067	2079
SI 02	59.90	60.05	59.82
TI 02	.10	.15	.10
AL2 03	11.96	12.43	12.19
FE2 03	6.98	7.08	7.20
FE 0	-.01	-.01	-.01
MN 0	.32	.32	.27
MG 0	2.49	2.58	2.57
CA 0	8.77	8.49	8.56
NA2 0	4.29	4.04	4.48
K2 0	4.68	4.35	4.33
P2 05	.52	.51	.48
S	-.01	-.01	-.01
L.O.I.	0.	0.	0.
TOTAL	100.01	100.00	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01
CU	-.01	-.01	-.01
PB	-.01	-.01	-.01
ZN	-.01	-.01	-.01
CD	-.01	-.01	-.01
AG	-.01	-.01	-.01
CR	-.01	-.01	-.01
V	-.01	-.01	-.01
CO	-.01	-.01	-.01
NI	-.01	-.01	-.01
MB	-.01	-.01	-.01
RB	-.01	-.01	-.01
SR	-.01	-.01	-.01
ZR	-.01	-.01	-.01
Y	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	C1115	C1234	C1183
ROCK TYPE	STD SY-2	STD SY-2	STD SY-2
SEQUENCE NO	3084	3138	3182
SI 02	60.64	60.48	60.24
TI 02	.12	.13	.14
AL2 03	12.17	12.06	11.93
FE2 03	6.66	6.72	6.65
FE 0	-.01	-.01	-.01
MN 0	.31	.32	.32
MG 0	2.70	2.63	2.73
CA 0	8.55	8.14	8.52
NA2 0	4.22	4.52	4.61
K2 0	4.22	4.57	4.41
P2 05	.41	.42	.46
S	.01	.02	.01
L.O.I.	0.	0.	0.
TOTAL	100.01	100.01	100.02

TRACE ELEMENT CHEMISTRY (PPM)

BA	477.00	482.00	424.00
CU	8.00	8.00	6.00
PB	86.00	90.00	84.00
ZN	245.00	223.00	245.00
CD	0.	0.	0.
AG	.20	.20	.20
CR	8.00	5.00	7.00
V	60.00	55.00	62.00
CO	27.00	22.00	26.00
NI	6.00	5.00	6.00
MB	4.00	2.00	3.00
RB	188.00	183.00	176.00
SR	232.00	244.00	235.00
ZR	269.00	262.00	-.01
Y	138.00	134.00	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-07-1	75-13-1	75-12	66-MS-1-1	75-13-2
ROCK TYPE	3D	3D	3D	3D	3D
SEQUENCE NO	2054	2055	2056	2057	2058
SI 02	55.50	54.47	55.90	46.43	54.66
TI 02	.17	.52	.92	2.39	.62
AL2 03	17.35	17.08	16.86	15.78	21.29
FE2 03	6.48	6.72	9.50	14.26	7.39
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.09	.08	.11	.12	.07
MG 0	3.35	3.33	4.19	7.23	3.93
CA 0	12.95	12.18	7.26	9.67	6.30
NA2 0	.35	1.93	2.45	2.24	1.65
K2 0	3.58	3.54	2.40	1.22	3.93
P2 05	.17	.15	.40	.65	.17
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.00	99.99	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	66-MS-1-2	77X-01-1	77X-10	2577	2618
ROCK TYPE	3D	3D	3D	3DW	3DV
SEQUENCE NO	2059	2060	2061	2062	2063
SI 02	53.79	55.76	47.98	54.45	43.79
TI 02	.48	.11	1.04	.55	2.83
AL2 O3	18.57	18.81	25.75	18.78	13.25
FE2 O3	7.15	7.37	11.01	6.88	17.19
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.11	.09	.16	.05	.24
MG 0	3.42	3.30	4.05	3.72	5.66
CA 0	10.67	9.46	3.53	8.94	12.85
NA2 O	2.45	1.10	2.39	2.21	1.11
K2 O	3.20	3.85	3.84	4.27	2.58
P2 O5	.15	.15	.26	.15	.49
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.00	100.01	100.00	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	2711	3808	6026	2619	5696
ROCK TYPE	3D	3DW	3D	3DW	3D
SEQUENCE NO	2064	2065	2066	2081	2087
SI 02	49.73	51.98	54.77	53.53	50.53
TI 02	.45	.47	.46	.40	.56
AL2 03	18.16	14.97	17.24	14.94	16.74
FE2 03	7.06	5.27	6.80	7.87	7.97
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.07	.06	.07	.11
MG 0	3.63	2.85	3.35	5.31	4.87
CA 0	16.64	19.61	11.97	12.73	16.03
NA2 0	.76	.95	.86	.90	1.42
K2 0	3.33	3.58	4.36	4.01	1.52
P2 05	.15	.23	.13	.23	.24
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	99.98	100.00	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-07-2	76X-22	76X-11-2	77X-01-2	77X-06
ROCK TYPE	SBD	SB	SB	SB	SB
SEQUENCE NO	2068	2069	2070	2071	2072
SI 02	59.27	48.89	55.02	53.65	53.31
TI 02	.17	.12	.11	.57	.06
AL2 03	19.83	17.82	21.71	20.84	17.39
FE2 03	6.35	6.68	7.92	8.56	6.61
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.09	.11	.07	.11	.08
MG 0	3.63	3.40	3.47	2.58	3.13
CA 0	5.78	18.53	5.97	8.25	15.30
NA2 0	.51	.94	1.25	1.60	1.04
K2 0	4.19	3.40	4.34	3.71	2.90
P2 05	.18	.12	.14	.12	.19
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.00	100.01	100.00	99.99	100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	77X-07-3	76X-11-3	3905	4223	5809
ROCK TYPE	5B3	5B	5B	5B	5B
SEQUENCE NO	2073	2074	2075	2076	2077
SI 02	51.05	47.02	63.61	31.38	55.64
TI 02	1.19	1.43	.06	0.	.17
AL2 03	18.15	16.34	12.61	9.72	15.54
FE2 03	11.03	14.24	6.08	3.96	5.88
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.14	.19	.07	.19	.13
MG 0	6.08	5.63	2.90	2.08	2.97
CA 0	8.04	10.82	11.16	49.29	12.00
NA2 0	2.47	3.86	1.45	2.92	5.71
K2 0	1.55	.11	1.90	.35	1.77
P2 05	.29	.36	.17	.12	.18
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.00	100.01	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6080	5556
ROCK TYPE	5B	5B
SEQUENCE NO	2078	2088

SI O2	50.00	48.13
TI O2	.37	1.77
AL2 O3	11.55	12.97
FE2 O3	5.28	13.51
FE O	-.01	-.01
MN O	.10	.16
MG O	2.76	10.50
CA O	26.66	8.36
NA2 O	1.17	4.18
K2 O	1.90	.11
P2 O5	.21	.31
S	-.01	-.01
L.O.I.	0.	0.

TOTAL	100.00	100.00
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 5901

ROCK TYPE 5A

SEQUENCE NO 2080

SI 02	83.93
TI 02	.21
AL2 03	10.21
FE2 03	1.67
FE 0	-.01
MN 0	.02
MG 0	1.04
CA 0	.47
NA2 0	.78
K2 0	1.51
P2 05	.17
S	-.01
L.O.I.	0.

TOTAL 100.01

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6064	6189	4144	4260	6176
ROCK TYPE	ARGBS	ARGBK	ARGBS	ARGBS	ARGBS
SEQUENCE NO.	2082	2084	2100	2101	2102
SI O2	46.69	49.05	48.88	49.54	47.57
TI O2	1.55	1.68	1.56	1.26	2.24
AL2 O3	16.84	14.76	16.22	16.37	14.26
FE2 O3	13.74	14.25	2.39	3.46	4.94
FE O	-.01	-.01	7.90	6.77	9.17
MN O	.15	.17	.16	.18	.33
MG O	5.99	6.31	10.82	7.56	7.54
CA O	10.85	8.96	8.32	12.39	9.37
NA2 O	3.20	4.22	3.28	1.99	3.57
K2 O	.88	.46	.26	.31	.81
P2 O5	.10	.14	.21	.16	.20
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.00	100.00	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	-.01	120.00	105.00	135.00
Y	-.01	-.01	7.00	0.	14.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6322	6123	6190	6232	6313
ROCK TYPE	ARGBS	ARGBK	ARGBK	ARGBK	ARGBK
SEQUENCE NO	2103	2104	2105	2106	2107
SI 02	49.20	45.14	50.32	43.23	44.72
TI 02	1.09	1.92	1.12	.05	.91
AL2 03	15.26	11.80	13.68	.86	20.11
FE2 03	2.23	2.95	2.86	9.65	1.98
FE 0	8.15	7.87	8.06	5.10	4.81
MN 0	.18	.16	.11	.21	.12
MG 0	9.03	14.70	8.27	33.25	5.24
CA 0	11.94	13.15	12.45	7.40	18.62
NA2 0	2.44	1.04	2.86	.11	3.05
K2 0	.36	.98	.10	.05	.27
P2 05	.13	.30	.16	.08	.17
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.01	100.01	99.99	99.99	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	88.00	120.00	100.00	55.00	72.00
Y	0.	0.	0.	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6114	6131
ROCK TYPE	ARGBD	ARGBD
SEQUENCE NO	2110	2111

SI O2	49.92	47.21
TI O2	1.04	1.97
AL2 O3	16.64	14.84
FE2 O3	1.35	3.84
FE O	7.38	9.34
MN O	.16	.22
MG O	7.90	7.47
CA O	11.34	10.89
NA2 O	3.95	3.01
K2 O	.10	.99
P2 O5	.22	.23
S	-.01	-.01
L.O.I.	0.	0.

TOTAL	100.00	100.01
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TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	100.00	120.00
Y	0.	12.00

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	6318	6101	6128	2361	3473
ROCK TYPE	FLSZB	FLSZB	FLSZB	FLSZG	FLSZG
SEQUENCE NO	2083	2112	2113	2114	2115
SI 02	46.33	48.58	62.72	47.31	49.36
TI 02	1.21	1.13	.56	.31	.21
AL2 03	14.74	14.55	13.18	15.70	18.07
FE2 03	14.74	3.23	2.20	1.05	2.79
FE 0	-.01	10.25	5.31	5.13	2.63
MN 0	.21	.26	.15	.12	.11
MG 0	7.58	7.79	3.88	9.21	9.29
CA 0	10.95	9.94	9.09	20.93	14.15
NA2 0	2.21	3.95	2.30	.21	2.94
K2 0	1.74	.15	.41	0.	.36
P2 05	.28	.18	.20	.04	.08
S	-.01	-.01	-.01	-.01	-.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.99	100.01	100.00	100.01	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01	-.01	-.01	-.01
CU	-.01	-.01	-.01	-.01	-.01
PB	-.01	-.01	-.01	-.01	-.01
ZN	-.01	-.01	-.01	-.01	-.01
CD	-.01	-.01	-.01	-.01	-.01
AG	-.01	-.01	-.01	-.01	-.01
CR	-.01	-.01	-.01	-.01	-.01
V	-.01	-.01	-.01	-.01	-.01
CO	-.01	-.01	-.01	-.01	-.01
NI	-.01	-.01	-.01	-.01	-.01
MB	-.01	-.01	-.01	-.01	-.01
RB	-.01	-.01	-.01	-.01	-.01
SR	-.01	-.01	-.01	-.01	-.01
ZR	-.01	105.00	97.00	53.00	5.00
Y	-.01	5.00	0.	0.	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID 6319

ROCK TYPE FLSZG

SEQUENCE NO 2116

SI 02	50.64
TI 02	.41
AL2 03	15.75
FE2 03	1.18
FE 0	3.96
MN 0	.22
MG 0	8.34
CA 0	15.13
NA2 0	1.90
K2 0	2.37
P2 05	.09
S	-.01
L.O.I.	0.

TOTAL 99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01
CU	-.01
PB	-.01
ZN	-.01
CD	-.01
AG	-.01
CR	-.01
V	-.01
CO	-.01
NI	-.01
MB	-.01
RB	-.01
SR	-.01
ZR	77.00
Y	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 2

SPECIMEN ID	5861	4948
ROCK TYPE	SFV	SFV
SEQUENCE NO	2086	2109
SI 02	60.08	60.93
TI 02	.56	.57
AL2 03	17.66	18.40
FE2 03	7.34	2.08
FE 0	-.01	5.36
MN 0	.08	.08
MG 0	3.18	3.64
CA 0	5.55	4.68
NA2 0	3.08	2.70
K2 0	2.26	1.35
P2 05	.20	.20
S	-.01	-.01
L.O.I.	0.	0.
TOTAL	99.99	99.99

TRACE ELEMENT CHEMISTRY (PPM)

BA	-.01	-.01
CU	-.01	-.01
PB	-.01	-.01
ZN	-.01	-.01
CD	-.01	-.01
AG	-.01	-.01
CR	-.01	-.01
V	-.01	-.01
CO	-.01	-.01
NI	-.01	-.01
MB	-.01	-.01
RB	-.01	-.01
SR	-.01	-.01
ZR	-.01	130.00
Y	-.01	0.

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3353	F3356	F3374	F3375	F3376
ROCK TYPE	0E8	0E8	0E8	0E8	0E8
SEQUENCE NO	3001	3002	3018	3019	3020
SI 02	62.91	66.78	64.60	62.07	63.62
TI 02	.64	.47	.88	.65	.61
AL2 03	17.67	16.52	17.53	17.53	17.25
FE2 03	6.76	6.05	5.45	6.82	6.54
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.13	.13	.10	.15	.12
MG 0	1.98	1.29	1.77	1.99	1.84
CA 0	5.41	3.95	4.70	5.91	5.16
NA2 0	2.20	2.05	2.50	2.60	2.63
K2 0	2.14	2.56	2.30	2.14	2.07
P2 05	.15	.18	.17	.14	.17
S	.10	.03	.39	.41	.67
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.09	100.01	100.39	100.41	100.68

TRACE ELEMENT CHEMISTRY (PPM)

BA	968.00	1216.00	1040.00	998.00	962.00
CU	225.00	24.00	10.00	7.00	10.00
PB	14.00	26.00	14.00	14.00	21.00
ZN	169.00	222.00	138.00	135.00	84.00
CD	1.20	3.00	1.10	.90	0.
AG	0.	0.	0.	0.	.30
CR	27.00	30.00	52.00	58.00	79.00
V	120.00	54.00	96.00	103.00	89.00
CO	23.00	23.00	21.00	24.00	23.00
NI	2.00	2.00	2.00	3.00	2.00
MB	6.00	6.00	4.00	5.00	4.00
RB	114.00	122.00	105.00	86.00	92.00
SR	326.00	277.00	318.00	355.00	335.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3377	F3378	F3379	F3381	F3383
ROCK TYPE	0E8	0E8	0E8	0E7	0E7
SEQUENCE NO	3021	3022	3023	3025	3027
SI 02	66.61	66.80	54.31	57.13	66.00
TI 02	.47	.49	.46	.78	.56
AL2 03	16.76	16.39	29.92	21.40	16.91
FE2 03	5.24	5.61	5.77	8.87	6.46
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.08	.07	.03	.13	.08
MG 0	1.31	1.37	1.15	2.00	1.83
CA 0	3.85	3.89	.89	4.44	3.11
NA2 0	2.57	2.72	.54	2.14	2.70
K2 0	2.88	2.46	6.83	3.00	2.18
P2 05	.23	.18	.10	.12	.17
S	.14	.16	1.65	.33	.60
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.14	100.14	101.65	100.34	100.60

TRACE ELEMENT CHEMISTRY (PPM)

BA	1300.00	1367.00	2629.00	880.00	976.00
CU	5.00	25.00	136.00	14.00	12.00
PB	24.00	18.00	18.00	14.00	18.00
ZN	59.00	56.00	115.00	90.00	74.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	80.00	93.00	170.00	80.00	42.00
V	48.00	48.00	82.00	118.00	102.00
CO	18.00	20.00	22.00	25.00	20.00
NI	2.00	2.00	22.00	16.00	0.
MB	4.00	5.00	5.00	7.00	3.00
RB	112.00	101.00	271.00	138.00	134.00
SR	304.00	300.00	61.00	155.00	238.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3278	F3286	F3296	F3300	F3402
ROCK TYPE	0E6	0D8	0E8	0E8	0E8
SEQUENCE NO	3062	3070	3078	3080	3081
SI 02	61.08	67.00	65.96	66.48	62.18
TI 02	.83	.43	.36	.48	.65
AL2 O3	21.61	17.37	18.08	16.12	17.54
FE2 O3	8.12	5.39	5.74	4.97	6.66
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.04	.06	.05	.07	.13
MG O	2.23	1.95	2.04	1.34	2.04
CA O	.49	2.27	3.13	5.25	6.24
NA2 O	.32	.81	.62	1.80	1.88
K2 O	5.13	4.59	3.89	3.29	2.53
P2 O5	.14	.13	.12	.21	.15
S	.53	.17	.42	.16	.22
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.52	100.17	100.41	100.17	100.22

TRACE ELEMENT CHEMISTRY (PPM)

BA	1046.00	1430.00	1015.00	1788.00	1552.00
CU	149.00	21.00	69.00	540.00	34.00
PB	35.00	43.00	36.00	29.00	41.00
ZN	78.00	88.00	81.00	350.00	96.00
CD	0.	0.	0.	0.	0.
AG	.30	.30	0.	0.	0.
CR	92.00	55.00	40.00	22.00	20.00
V	120.00	79.00	77.00	58.00	120.00
CO	25.00	17.00	26.00	18.00	26.00
NI	34.00	8.00	17.00	17.00	2.00
MB	4.00	6.00	5.00	4.00	4.00
RB	215.00	250.00	256.00	143.00	118.00
SR	54.00	82.00	107.00	231.00	307.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1116	F1206	F1160	F1163	F15775
ROCK TYPE	OE	OE	OE	OE	OE
SEQUENCE NO	3085	3106	3117	3119	3201
SI 02	70.39	70.02	73.25	64.89	59.86
TI 02	.49	.47	.36	.22	.64
AL2 03	17.12	17.02	15.44	13.63	22.94
FE2 03	4.88	6.28	5.28	5.60	8.06
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.09	.13	.14	.07
MG 0	1.10	.98	.73	.78	1.88
CA 0	1.25	1.08	.43	.39	.66
NA2 0	1.90	1.24	.28	.37	2.02
K2 0	2.59	2.59	3.86	3.72	3.71
P2 05	.22	.24	.24	.24	.15
S	.06	.30	.08	.41	.01
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.05	100.31	100.08	90.39	100.00

TRACE ELEMENT CHEMISTRY (PPM)

BA	1923.00	1682.00	15628.00	91200.00	814.00
CU	26.00	18.00	36.00	1650.00	9.00
PB	21.00	86.00	67.00	260.00	12.00
ZN	140.00	74.00	227.00	600.00	178.00
CD	0.	0.	2.20	10.50	0.
AG	.20	.30	.50	4.60	.20
CR	18.00	18.00	22.00	29.00	112.00
V	55.00	60.00	75.00	155.00	150.00
CO	16.00	17.00	16.00	25.00	32.00
NI	2.00	1.00	3.00	3.00	48.00
MB	3.00	3.00	3.00	4.00	4.00
RB	83.00	115.00	179.00	119.00	179.00
SR	154.00	118.00	62.00	82.00	154.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

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GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F15777

ROCK TYPE 0E

SEQUENCE NO 3203

SI 02	54.06
TI 02	.73
AL2 03	25.71
FE2 03	9.48
FE 0	-.01
MN 0	.12
MG 0	2.32
CA 0	1.16
NA2 0	1.43
K2 0	4.85
P2 05	.14
S	.10
L.O.I.	0.

TOTAL 100.10

TRACE ELEMENT CHEMISTRY (PPM)

BA	1067.00
CU	22.00
PB	18.00
ZN	85.00
CD	0.
AG	.20
CR	80.00
V	135.00
CO	33.00
NI	46.00
MB	4.00
RB	166.00
SR	115.00
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3359	F3360	F3361	F3362	F3363
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3003	3004	3005	3006	3007
SI 02	42.83	58.31	57.32	60.20	62.06
TI 02	1.01	.75	.87	.78	.71
AL2 03	30.78	22.29	23.96	21.95	20.30
FE2 03	14.43	10.49	9.13	8.72	9.02
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.24	.13	.08	.08	.08
MG 0	2.57	1.84	1.96	1.96	1.85
CA 0	1.08	.82	.52	.54	.50
NA2 0	.45	.53	.88	1.15	.94
K2 0	6.53	4.72	5.17	4.49	4.45
P2 05	.08	.12	.11	.11	.08
S	.06	.18	.21	.14	.20
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.06	100.18	100.21	100.12	100.19

TRACE ELEMENT CHEMISTRY (PPM)

BA	3007.00	1875.00	1010.00	831.00	842.00
CU	50.00	33.00	22.00	18.00	24.00
PB	18.00	18.00	16.00	116.00	10.00
ZN	162.00	158.00	77.00	64.00	57.00
CD	0.	.80	0.	0.	0.
AG	.40	.30	0.	0.	0.
CR	128.00	100.00	110.00	95.00	100.00
V	142.00	100.00	110.00	98.00	100.00
CO	48.00	31.00	35.00	35.00	33.00
NI	42.00	35.00	40.00	38.00	41.00
MB	7.00	4.00	5.00	5.00	4.00
RB	191.00	157.00	167.00	169.00	160.00
SR	71.00	61.00	58.00	66.00	62.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3364	F3365	F3366	F3367	F3368
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3008	3009	3010	3011	3012
SI 02	62.19	60.43	60.55	60.51	58.58
TI 02	.74	.81	.70	.82	.82
AL2 O3	20.14	21.75	21.52	22.01	22.59
FE2 O3	9.05	9.12	8.76	8.74	9.33
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.12	.08	.10	.09	.09
MG 0	1.89	1.90	1.91	1.85	1.98
CA 0	.60	.44	.64	.48	.59
NA2 O	1.04	.86	1.09	.74	1.03
K2 O	4.10	4.55	4.61	4.68	4.86
P2 O5	.11	.07	.13	.09	.12
S	.16	.13	.07	.12	.09
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.14	100.14	100.08	100.13	100.08

TRACE ELEMENT CHEMISTRY (PPM)

BA	845.00	880.00	1054.00	966.00	880.00
CU	36.00	32.00	36.00	27.00	37.00
PB	12.00	10.00	17.00	20.00	26.00
ZN	87.00	76.00	108.00	80.00	106.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	80.00	85.00	117.00	115.00	140.00
V	97.00	100.00	78.00	99.00	99.00
CO	34.00	34.00	33.00	31.00	34.00
NI	44.00	43.00	42.00	42.00	42.00
MB	3.00	4.00	2.00	3.00	3.00
RB	152.00	158.00	168.00	160.00	170.00
SR	62.00	51.00	83.00	57.00	73.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3369	F3370	F3371	F3372	F3373
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3013	3014	3015	3016	3017
SI O2	57.70	61.77	62.11	55.45	53.61
TI O2	.89	.65	.73	1.01	.92
AL2 O3	22.27	20.70	19.94	23.52	26.59
FE2 O3	10.35	9.01	9.29	10.40	9.36
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.11	.08	.08	.13	.11
MG O	2.14	1.90	1.96	2.31	1.98
CA O	.67	.47	.44	.61	1.47
NA2 O	.87	.78	.89	1.34	.60
K2 O	4.88	4.52	4.49	5.15	5.26
P2 O5	.12	.11	.07	.08	.11
S	.21	.38	.27	.18	.63
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.21	100.37	100.27	100.18	100.64

TRACE ELEMENT CHEMISTRY (PPM)

BA	941.00	880.00	731.00	1106.00	1112.00
CU	58.00	70.00	25.00	25.00	86.00
PB	44.00	24.00	24.00	16.00	18.00
ZN	137.00	94.00	78.00	80.00	103.00
CD	0.	0.	0.	0.	0.
AG	.40	0.	0.	0.	0.
CR	160.00	153.00	152.00	158.00	138.00
V	110.00	90.00	88.00	110.00	100.00
CO	40.00	33.00	32.00	38.00	33.00
NI	51.00	39.00	39.00	47.00	38.00
MB	3.00	5.00	5.00	5.00	5.00
RB	165.00	154.00	160.00	185.00	191.00
SR	67.00	56.00	61.00	72.00	63.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3380	F3382	F3384	F3385	F3386
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3024	3026	3028	3029	3030
SI O2	58.27	55.47	61.55	64.80	65.92
TI O2	.77	.93	.74	.63	.67
AL2 O3	22.26	23.68	20.76	16.90	17.70
FE2 O3	9.60	10.13	8.18	6.48	9.15
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.10	.17	.09	.08	.15
MG O	2.04	2.13	1.72	1.81	1.65
CA O	1.24	1.77	1.58	4.17	.83
NA2 O	.97	1.21	.74	2.71	.51
K2 O	4.67	4.42	4.53	2.24	3.33
P2 O5	.09	.09	.11	.17	.09
S	.70	.16	.67	.62	.51
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.71	100.16	100.67	100.61	100.51

TRACE ELEMENT CHEMISTRY (PPM)

BA	1087.00	911.00	970.00	903.00	656.00
CU	87.00	23.00	50.00	11.00	68.00
PB	17.00	8.00	23.00	11.00	11.00
ZN	143.00	101.00	89.00	70.00	74.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	158.00	148.00	170.00	50.00	150.00
V	118.00	113.00	95.00	100.00	78.00
CO	30.00	33.00	30.00	19.00	31.00
NI	32.00	38.00	26.00	0.	36.00
MB	5.00	4.00	4.00	4.00	3.00
RB	165.00	177.00	153.00	134.00	114.00
SR	65.00	88.00	70.00	252.00	35.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3387	F3388	F3389	F3390	F3391
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3031	3032	3033	3034	3035
SI 02	62.99	60.89	60.76	60.49	58.51
TI 02	.73	.81	.55	.73	.73
AL2 03	18.40	19.39	20.14	21.40	21.86
FE2 03	9.77	8.84	9.44	9.11	10.07
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.11	.14	.12	.13	.16
MG 0	1.79	1.83	2.22	1.98	2.03
CA 0	1.05	2.83	1.71	.98	1.09
NA2 0	.84	.82	.68	.63	1.14
K2 0	4.21	4.36	4.24	4.42	4.30
P2 05	.13	.10	.13	.12	.11
S	.50	.17	.13	.14	.09
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.52	100.18	100.12	100.13	100.09

TRACE ELEMENT CHEMISTRY (PPM)

BA	827.00	880.00	824.00	961.00	964.00
CU	44.00	52.00	21.00	27.00	34.00
PB	12.00	15.00	10.00	10.00	12.00
ZN	69.00	88.00	73.00	77.00	79.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	0.	0.
CR	142.00	138.00	140.00	135.00	137.00
V	88.00	93.00	99.00	95.00	103.00
CO	31.00	30.00	30.00	30.00	34.00
NI	36.00	39.00	33.00	39.00	42.00
MB	4.00	4.00	3.00	3.00	4.00
RB	145.00	182.00	158.00	179.00	170.00
SR	51.00	97.00	73.00	53.00	61.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3392	F3393	F3254	F3256	F3258
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3036	3037	3041	3042	3043
SI 02	60.94	60.36	63.88	58.55	58.61
TI 02	.69	.61	.60	.80	.79
AL2 03	20.50	21.07	18.21	22.21	21.94
FE2 03	10.07	10.01	9.93	10.00	10.22
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.12	.09	.06	.05
MG 0	2.21	2.12	1.98	2.17	2.01
CA 0	.88	1.10	.43	.39	.39
NA2 0	.38	.38	.53	.71	.79
K2 0	4.11	4.06	4.21	4.99	5.09
P2 05	.12	.16	.14	.12	.10
S	.07	.13	.68	.28	.63
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.07	100.12	100.68	100.28	100.62

TRACE ELEMENT CHEMISTRY (PPM)

BA	1148.00	978.00	825.00	1083.00	1025.00
CU	23.00	60.00	90.00	38.00	86.00
PB	10.00	15.00	64.00	55.00	22.00
ZN	78.00	89.00	60.00	55.00	80.00
CD	0.	0.	0.	0.	0.
AG	0.	0.	0.	.60	0.
CR	150.00	140.00	164.00	150.00	148.00
V	103.00	98.00	98.00	120.00	117.00
CO	34.00	34.00	35.00	35.00	36.00
NI	37.00	37.00	44.00	43.00	39.00
MB	3.00	3.00	5.00	3.00	4.00
RB	162.00	139.00	153.00	196.00	195.00
SR	44.00	50.00	21.00	24.00	37.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3262	F3265	F1166 A	F1167	F1168
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3046	3049	3122	3123	3124
SI 02	62.25	58.37	59.90	53.45	54.56
TI 02	.56	.52	.57	.71	.78
AL2 03	20.68	24.78	20.12	25.95	25.73
FE2 03	8.67	8.67	10.87	10.76	9.98
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.05	.25	.09	.09
MG 0	1.92	1.85	2.08	2.33	2.33
CA 0	.54	.43	.68	.83	.83
NA2 0	.57	.53	.43	.44	.55
K2 0	4.63	4.67	4.95	5.32	4.99
P2 05	.13	.11	.16	.11	.16
S	.60	.18	.85	.65	.42
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.60	100.16	100.86	100.64	100.42

TRACE ELEMENT CHEMISTRY (PPM)

BA	775.00	1136.00	1192.00	1324.00	1254.00
CU	45.00	23.00	3100.00	66.00	40.00
PB	100.00	12.00	73.00	34.00	41.00
ZN	46.00	40.00	320.00	126.00	148.00
CD	0.	0.	5.40	0.	0.
AG	.30	0.	4.30	.20	.20
CR	132.00	138.00	82.00	89.00	83.00
V	98.00	100.00	110.00	110.00	110.00
CO	27.00	30.00	36.00	32.00	31.00
NI	52.00	35.00	52.00	50.00	47.00
MB	3.00	4.00	3.00	3.00	3.00
RB	173.00	175.00	141.00	177.00	181.00
SR	34.00	49.00	48.00	54.00	54.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19720	F19730	F15779	F15780	F15781
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3153	3154	3205	3206	3207
SI O2	60.14	58.74	58.00	60.70	59.62
TI O2	.64	.82	.79	.62	.70
AL2 O3	20.84	21.75	23.63	20.70	20.79
FE2 O3	9.87	9.98	9.29	9.73	9.86
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.10	.09	.09	.10	.07
MG O	2.60	2.79	2.26	2.38	2.47
CA O	1.18	1.19	.75	.93	1.11
NA2 O	.77	.77	1.18	1.06	1.51
K2 O	3.76	3.73	3.87	3.63	3.66
P2 O5	.10	.14	.14	.13	.20
S	.40	.18	.17	.34	.16
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.40	100.18	100.17	100.32	100.15

TRACE ELEMENT CHEMISTRY (PPM)

BA	1173.00	1230.00	1022.00	859.00	851.00
CU	30.00	26.00	28.00	58.00	26.00
PB	14.00	13.00	30.00	22.00	30.00
ZN	70.00	61.00	93.00	94.00	70.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	100.00	108.00	75.00	73.00	75.00
V	105.00	120.00	120.00	110.00	115.00
CO	32.00	32.00	32.00	31.00	33.00
NI	45.00	47.00	49.00	47.00	55.00
MB	3.00	3.00	3.00	4.00	3.00
RB	143.00	151.00	157.00	157.00	170.00
SR	82.00	81.00	102.00	84.00	99.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15782	F15783	F15784	F15785	F15786
ROCK TYPE	1CD	1CD	1CD	1CD	1CD
SEQUENCE NO	3208	3209	3210	3211	3212
SI O2	60.43	57.80	51.17	60.10	58.92
TI O2	.71	.68	1.28	.69	.67
AL2 O3	20.81	23.21	16.74	21.85	21.57
FE2 O3	9.49	8.91	12.26	8.92	9.93
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.12	.08	.19	.09	.15
MG O	2.35	2.58	9.06	2.23	2.32
CA O	.89	1.13	5.76	.74	.91
NA2 O	1.38	1.47	1.41	1.29	1.50
K2 O	3.66	3.87	1.96	3.96	3.86
P2 O5	.16	.29	.18	.14	.16
S	.18	.28	.12	.17	.13
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.18	100.30	100.13	100.18	100.12

TRACE ELEMENT CHEMISTRY (PPM)

BA	904.00	918.00	551.00	943.00	908.00
CU	30.00	37.00	46.00	26.00	30.00
PB	38.00	28.00	21.00	30.00	23.00
ZN	82.00	86.00	116.00	53.00	61.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	71.00	130.00	400.00	85.00	78.00
V	115.00	120.00	180.00	115.00	108.00
CO	30.00	33.00	48.00	30.00	30.00
NI	45.00	76.00	220.00	44.00	46.00
MB	3.00	4.00	4.00	5.00	2.00
RB	156.00	162.00	77.00	160.00	155.00
SR	94.00	121.00	125.00	90.00	100.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F15787 F15788

ROCK TYPE 1CD 1CD

SEQUENCE NO 3213 3214

SI 02	60.70	60.67
TI 02	.68	.74
AL2 03	21.20	20.19
FE2 03	9.00	9.88
FE 0	-.01	-.01
MN 0	.12	.15
MG 0	2.20	2.35
CA 0	.70	.73
NA2 0	1.51	1.17
K2 0	3.77	4.01
P2 05	.14	.12
S	.23	.27
L.O.I.	0.	0.

TOTAL 100.25 100.28

TRACE ELEMENT CHEMISTRY (PPM)

BA	895.00	835.00
CU	31.00	30.00
PB	28.00	50.00
ZN	40.00	40.00
CD	0.	0.
AG	.20	.20
CR	80.00	82.00
V	100.00	105.00
CO	30.00	31.00
NI	47.00	44.00
MB	4.00	3.00
RB	152.00	158.00
SR	107.00	84.00
ZR	-.01	-.01
Y	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3260	F3261	F3263	F3264	F3266
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3044	3045	3047	3048	3050
SI 02	59.85	67.02	59.61	64.11	66.59
TI 02	.54	.49	.37	.34	.31
AL2 03	22.28	18.02	21.00	20.00	17.86
FE2 03	9.52	8.14	11.81	8.66	8.68
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.10	.09	.05	.05	.06
MG 0	1.83	1.67	1.90	1.82	1.52
CA 0	.45	.39	.44	.45	.36
NA2 0	.52	.41	.56	.46	.41
K2 0	4.84	3.70	4.16	4.00	4.11
P2 05	.08	.08	.10	.11	.09
S	.19	.09	1.99	.19	.80
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.20	100.10	101.99	100.19	100.79

TRACE ELEMENT CHEMISTRY (PPM)

BA	1130.00	769.00	733.00	868.00	664.00
CU	102.00	52.00	270.00	40.00	143.00
PB	80.00	54.00	19.00	19.00	62.00
ZN	190.00	112.00	42.00	45.00	76.00
CD	.60	0.	0.	0.	0.
AG	.80	.80	0.	0.	1.40
CR	170.00	200.00	142.00	158.00	138.00
V	115.00	92.00	98.00	90.00	78.00
CO	33.00	25.00	46.00	27.00	28.00
NI	38.00	36.00	43.00	31.00	29.00
MB	4.00	5.00	5.00	5.00	3.00
RB	166.00	100.00	164.00	168.00	158.00
SR	46.00	26.00	33.00	42.00	22.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F3267	F3268	F3269	F3288	F1118
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3051	3052	3053	3072	3086
SI 02	61.76	61.23	58.43	58.88	62.14
TI 02	.35	.38	.49	.51	.51
AL2 03	20.81	21.84	22.82	17.07	21.08
FE2 03	9.53	9.12	9.82	15.87	9.36
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.05	.07	.07	.07
MG 0	1.82	1.78	2.18	2.47	1.63
CA 0	.48	.52	.69	.68	.46
NA2 0	.44	.46	.55	.31	.33
K2 0	4.62	4.50	4.85	4.05	4.30
P2 05	.12	.12	.09	.10	.11
S	.85	.54	.52	3.35	.41
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.85	100.54	100.51	103.36	100.40

TRACE ELEMENT CHEMISTRY (PPM)

BA	746.00	837.00	1000.00	731.00	1138.00
CU	210.00	52.00	32.00	1000.00	58.00
PB	56.00	19.00	24.00	440.00	23.00
ZN	68.00	52.00	37.00	340.00	112.00
CD	0.	0.	0.	1.00	0.
AG	1.00	.50	0.	3.70	.20
CR	140.00	145.00	148.00	118.00	72.00
V	100.00	98.00	98.00	81.00	90.00
CO	32.00	34.00	35.00	62.00	26.00
NI	34.00	37.00	36.00	52.00	32.00
MB	5.00	5.00	4.00	3.00	3.00
RB	192.00	182.00	167.00	117.00	138.00
SR	29.00	36.00	36.00	22.00	35.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1120	F1121	F1122	F1124	F1200
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3088	3089	3090	3091	3103
SI 02	56.91	60.36	71.37	59.66	64.10
TI 02	.58	.31	.16	.46	.47
AL2 03	23.41	17.66	8.12	21.60	20.75
FE2 03	10.56	15.20	15.81	10.30	6.87
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.11	.07	.13	.11	.05
MG 0	2.46	1.72	.53	2.20	2.07
CA 0	.61	.41	.13	.45	.69
NA2 0	.33	.34	.20	.33	.27
K2 0	4.83	3.80	2.42	4.80	4.53
P2 05	.20	.12	.05	.10	.20
S	.38	4.14	7.91	.55	.59
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.38	104.13	106.83	100.56	100.59

TRACE ELEMENT CHEMISTRY (PPM)

BA	980.00	896.00	1031.00	1346.00	2990.00
CU	73.00	620.00	1310.00	255.00	140.00
PB	74.00	210.00	470.00	290.00	200.00
ZN	200.00	215.00	7500.00	229.00	174.00
CD	.40	.50	5.80	.50	0.
AG	.20	2.90	4.50	1.40	2.90
CR	80.00	97.00	46.00	78.00	103.00
V	100.00	100.00	100.00	90.00	98.00
CO	35.00	35.00	92.00	28.00	24.00
NI	40.00	40.00	20.00	34.00	32.00
MB	3.00	4.00	7.00	4.00	3.00
RB	168.00	122.00	70.00	162.00	161.00
SR	37.00	26.00	15.00	32.00	62.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1201	F1202	F1153	F1154	F1155
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3104	3105	3111	3112	3113
SI 02	71.00	60.37	62.26	60.27	58.92
TI 02	.22	.33	.59	.49	.76
AL2 03	13.79	20.89	21.40	20.05	20.72
FE2 03	7.11	10.89	9.20	11.73	11.87
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.05	.12	.08	.08
MG 0	1.35	1.65	1.41	1.80	2.15
CA 0	.43	.66	.41	.53	.78
NA2 0	.48	.42	.35	.35	.36
K2 0	3.37	4.62	4.16	4.60	4.14
P2 05	.22	.12	.10	.10	.21
S	1.67	3.35	1.08	1.83	1.52
L.O.I.	0.	0.	0.	0.	0.
TOTAL	99.69	103.35	101.08	101.83	101.51

TRACE ELEMENT CHEMISTRY (PPM)

BA	2523.00	2417.00	1569.00	1469.00	4247.00
CU	215.00	235.00	91.00	500.00	64.00
PB	13300.00	131.00	22.00	22.00	18.00
ZN	2650.00	152.00	56.00	37.00	94.00
CD	3.90	.20	0.	0.	0.
AG	6.00	1.30	.20	.20	.20
CR	78.00	70.00	75.00	70.00	80.00
V	75.00	96.00	110.00	105.00	140.00
CO	20.00	22.00	33.00	40.00	36.00
NI	24.00	47.00	37.00	37.00	60.00
MB	4.00	3.00	3.00	3.00	3.00
RB	136.00	147.00	153.00	136.00	145.00
SR	41.00	36.00	56.00	38.00	52.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1156	F1157	F1158	F1164	F1165
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3114	3115	3116	3120	3121
SI O2	58.70	58.91	61.90	63.87	63.93
TI O2	.52	.45	.44	.43	.41
AL2 O3	21.92	22.66	20.67	16.78	18.31
FE2 O3	10.79	10.59	9.65	12.34	9.49
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.09	.10	.10	.13	.47
MG O	2.07	1.68	1.78	.91	1.33
CA O	.83	.57	.43	.35	.51
NA2 O	.42	.35	.34	.41	.41
K2 O	4.52	4.53	4.55	4.65	4.78
P2 O5	.15	.14	.14	.13	.36
S	.37	.81	.37	3.57	1.55
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.38	100.79	100.37	103.57	101.55

TRACE ELEMENT CHEMISTRY (PPM)

BA	1165.00	1825.00	2068.00	1642.00	1276.00
CU	74.00	55.00	77.00	400.00	64.00
PB	33.00	37.00	33.00	2650.00	156.00
ZN	108.00	96.00	86.00	7700.00	620.00
CD	0.	0.	0.	8.30	1.00
AG	.20	.20	.20	4.80	.60
CR	97.00	97.00	95.00	61.00	73.00
V	130.00	110.00	85.00	80.00	95.00
CO	34.00	34.00	38.00	33.00	26.00
NI	48.00	50.00	48.00	28.00	40.00
MB	3.00	3.00	3.00	8.00	3.00
RB	131.00	162.00	155.00	109.00	167.00
SR	33.00	36.00	24.00	25.00	37.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1229	F1230	F1231	F1233	F1235
ROCK TYPE	1D4	1D4	1D4	1D4	1D4
SEQUENCE NO	3133	3134	3135	3137	3144
SI 02	58.37	61.05	70.53	64.55	68.49
TI 02	.87	.62	.39	.50	.42
AL2 03	24.64	22.15	15.40	17.42	14.52
FE2 03	8.70	8.31	7.79	10.50	10.01
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.12	.13	.07	.15
MG 0	1.69	1.69	.89	.82	1.00
CA 0	.55	.54	.34	.33	.35
NA2 0	.35	.32	.23	.30	.22
K2 0	4.65	5.02	4.14	3.81	4.66
P2 05	.12	.17	.16	.17	.18
S	.34	.85	2.77	3.97	3.93
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.35	100.84	102.77	102.44	103.93

TRACE ELEMENT CHEMISTRY (PPM)

BA	1078.00	2013.00	1779.00	1184.00	2127.00
CU	28.00	218.00	270.00	460.00	400.00
PB	35.00	95.00	96.00	1380.00	880.00
ZN	113.00	159.00	215.00	11500.00	590.00
CD	0.	.30	.20	13.50	.60
AG	.20	.30	1.00	4.30	1.90
CR	93.00	78.00	58.00	70.00	65.00
V	120.00	118.00	80.00	210.00	800.00
CO	27.00	28.00	30.00	31.00	46.00
NI	41.00	33.00	18.00	44.00	37.00
MB	3.00	4.00	3.00	8.00	16.00
RB	153.00	189.00	159.00	103.00	139.00
SR	41.00	45.00	30.00	59.00	22.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1184	F1191	F1195	F1196	F1197
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3096	3097	3098	3099	3100
SI 02	64.81	70.61	59.40	62.46	55.40
TI 02	.52	.47	.38	.53	.60
AL2 03	20.46	17.04	20.80	20.89	25.82
FE2 03	7.45	4.88	11.23	9.43	9.15
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.06	.07	.07	.06
MG 0	1.51	1.11	1.49	1.50	1.88
CA 0	.58	1.17	.33	.44	.33
NA2 0	.54	1.45	.67	.48	.57
K2 0	3.88	2.94	5.38	3.96	5.96
P2 05	.19	.28	.24	.24	.24
S	.32	.06	3.52	1.01	.92
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.32	100.07	103.51	101.01	100.93

TRACE ELEMENT CHEMISTRY (PPM)

BA	789.00	2425.00	3773.00	2075.00	3928.00
CU	26.00	5.00	360.00	60.00	54.00
PB	86.00	36.00	48.00	34.00	22.00
ZN	94.00	97.00	122.00	80.00	94.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.60	.20	.20
CR	90.00	10.00	89.00	95.00	90.00
V	93.00	60.00	102.00	102.00	110.00
CO	25.00	17.00	25.00	24.00	30.00
NI	35.00	1.00	30.00	32.00	37.00
MB	3.00	3.00	4.00	2.00	2.00
RB	151.00	133.00	171.00	135.00	205.00
SR	31.00	121.00	41.00	44.00	56.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1133	F1144	F1152	F1222	F1223
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3108	3109	3110	3126	3127
SI 02	65.63	64.12	69.33	62.57	61.45
TI 02	.49	.59	.51	.79	.78
AL2 03	20.96	20.53	17.78	21.63	21.55
FE2 03	5.91	7.64	6.70	7.24	8.38
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.05	.07	.08	.15	.25
MG 0	1.71	2.01	1.24	1.79	1.93
CA 0	.51	.46	.44	.58	.53
NA2 0	.69	.86	.23	.26	.27
K2 0	3.92	3.61	3.55	4.80	4.69
P2 05	.14	.10	.13	.18	.17
S	.20	.19	.53	.11	.32
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.21	100.18	100.52	100.10	100.32

TRACE ELEMENT CHEMISTRY (PPM)

BA	1193.00	845.00	1062.00	1218.00	1290.00
CU	33.00	16.00	52.00	22.00	40.00
PB	51.00	34.00	16.00	56.00	75.00
ZN	121.00	120.00	58.00	94.00	160.00
CD	0.	0.	0.	0.	.90
AG	.20	.20	.20	.20	.20
CR	100.00	102.00	66.00	90.00	88.00
V	95.00	115.00	80.00	100.00	105.00
CO	22.00	25.00	26.00	24.00	27.00
NI	31.00	30.00	55.00	35.00	40.00
MB	3.00	3.00	3.00	3.00	3.00
RB	158.00	144.00	128.00	176.00	175.00
SR	70.00	92.00	34.00	40.00	37.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1224	F1225	F1226	F1227	F1228
ROCK TYPE	ID	ID	ID	ID	ID
SEQUENCE NO	3128	3129	3130	3131	3132
SI 02	60.93	61.25	59.77	60.36	58.84
TI 02	.64	.85	.70	.80	.83
AL2 03	21.54	21.17	23.16	19.91	23.15
FE2 03	9.00	9.31	9.06	9.73	9.48
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.22	.13	.07	.11	.10
MG 0	2.03	2.61	2.10	2.73	2.12
CA 0	.51	.52	.47	1.68	.45
NA2 0	.30	.27	.33	.77	.35
K2 0	4.65	3.73	4.21	3.78	4.54
P2 05	.19	.15	.14	.15	.14
S	.13	.08	.20	.22	.25
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.14	100.07	100.21	100.24	100.25

TRACE ELEMENT CHEMISTRY (PPM)

BA	1372.00	1004.00	1055.00	933.00	1138.00
CU	24.00	21.00	24.00	36.00	23.00
PB	132.00	26.00	30.00	40.00	158.00
ZN	224.00	116.00	88.00	128.00	154.00
CD	1.20	0.	0.	0.	.20
AG	.60	.30	.20	.20	.40
CR	102.00	78.00	85.00	122.00	92.00
V	98.00	132.00	110.00	130.00	118.00
CO	28.00	31.00	29.00	32.00	28.00
NI	40.00	44.00	37.00	47.00	40.00
MB	3.00	3.00	3.00	3.00	3.00
RB	149.00	140.00	148.00	134.00	170.00
SR	36.00	37.00	41.00	67.00	32.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19715	F19716	F19717	F19718	F19719
ROCK TYPE	ID	ID	ID	ID	ID
SEQUENCE NO	3139	3140	3141	3142	3143
SI 02	60.87	67.63	57.43	60.69	60.31
TI 02	.71	.56	.79	.49	.50
AL2 03	19.66	16.70	23.23	20.84	21.73
FE2 03	9.57	7.82	9.54	9.92	9.39
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.04	.10	.10	.14
MG 0	2.80	1.91	2.34	1.93	1.76
CA 0	1.34	.67	.96	.73	.54
NA2 0	.42	.52	.85	.43	.35
K2 0	4.39	4.05	4.58	4.73	5.19
P2 05	.16	.09	.18	.14	.10
S	.76	.16	.35	1.21	.69
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.75	100.15	100.35	101.21	100.70

TRACE ELEMENT CHEMISTRY (PPM)

BA	992.00	784.00	973.00	842.00	1571.00
CU	70.00	18.00	44.00	33.00	40.00
PB	20.00	7.00	60.00	52.00	53.00
ZN	86.00	60.00	116.00	93.00	84.00
CD	0.	0.	.20	0.	0.
AG	.20	.20	.20	.20	.20
CR	96.00	80.00	110.00	88.00	95.00
V	125.00	110.00	140.00	100.00	120.00
CO	31.00	30.00	30.00	28.00	26.00
NI	48.00	38.00	41.00	43.00	25.00
MB	3.00	3.00	4.00	3.00	2.00
RB	166.00	149.00	174.00	165.00	169.00
SR	53.00	33.00	46.00	31.00	34.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19738	F19739	F19740	F19741	F19742
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3146	3147	3148	3149	3150
SI O2	57.09	59.29	60.63	57.83	57.44
TI O2	.32	.32	.33	.73	.69
AL2 O3	26.29	23.15	22.01	21.97	24.10
FE2 O3	7.94	8.90	9.45	10.47	9.38
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.07	.10	.06	.09	.08
MG O	1.56	2.60	2.37	2.99	2.42
CA O	.60	.76	.70	1.72	1.27
NA2 O	.79	.52	.54	.70	.54
K2 O	5.17	4.20	3.78	3.39	3.93
P2 O5	.16	.16	.12	.11	.16
S	2.19	1.09	.86	.41	.27
L.O.I.	0.	0.	0.	0.	0.
TOTAL	102.18	101.09	100.85	100.41	100.28

TRACE ELEMENT CHEMISTRY (PPM)

BA	1456.00	947.00	929.00	1000.00	1078.00
CU	53.00	78.00	34.00	34.00	24.00
PB	91.00	40.00	29.00	36.00	33.00
ZN	172.00	148.00	70.00	94.00	138.00
CD	.60	0.	0.	0.	0.
AG	.90	.60	.20	.20	.20
CR	100.00	90.00	98.00	118.00	96.00
V	115.00	100.00	112.00	130.00	125.00
CO	24.00	30.00	31.00	36.00	31.00
NI	26.00	37.00	48.00	64.00	36.00
MB	4.00	3.00	3.00	4.00	4.00
RB	213.00	179.00	168.00	143.00	156.00
SR	110.00	68.00	65.00	80.00	70.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F19745	F1174	F1176	F1177	F1178
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3152	3159	3161	3162	3163
SI 02	59.42	62.95	66.67	60.75	56.28
TI 02	.60	.50	.49	.76	.95
AL2 03	22.92	18.57	17.85	21.23	22.34
FE2 03	9.36	8.55	7.84	8.51	10.95
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.08	.09	.09	.09
MG 0	2.30	2.68	1.68	1.88	2.54
CA 0	.87	1.86	.69	1.15	1.30
NA2 0	.43	1.98	.52	.45	.44
K2 0	3.91	2.68	3.98	4.92	4.87
P2 05	.11	.14	.19	.26	.24
S	1.03	.37	.37	.24	.20
L.O.I.	0.	0.	0.	0.	0.
TOTAL	101.02	100.36	100.37	100.24	100.20

TRACE ELEMENT CHEMISTRY (PPM)

BA	1026.00	765.00	832.00	1072.00	907.00
CU	48.00	29.00	28.00	26.00	26.00
PB	29.00	36.00	44.00	27.00	32.00
ZN	79.00	108.00	120.00	106.00	82.00
CD	0.	0.	.20	0.	0.
AG	.20	.20	.20	.20	.20
CR	85.00	100.00	90.00	80.00	120.00
V	118.00	105.00	100.00	98.00	130.00
CO	30.00	29.00	23.00	27.00	32.00
NI	46.00	46.00	35.00	37.00	78.00
MB	3.00	3.00	8.00	4.00	3.00
RB	156.00	136.00	183.00	166.00	153.00
SR	56.00	162.00	48.00	51.00	56.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F1179	F1180	F1181	F13718	F13719
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3164	3165	3166	3168	3169
SI 02	57.59	57.09	63.95	59.29	60.56
TI 02	.18	.40	.44	.69	.54
AL2 03	23.48	22.37	19.28	22.38	22.16
FE2 03	9.39	10.75	8.92	8.74	8.81
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.07	.14	.11	.07	.06
MG 0	2.10	2.38	1.66	2.51	2.22
CA 0	1.15	1.06	.54	.86	.41
NA2 0	.55	.71	.44	1.07	1.13
K2 0	5.29	4.90	4.47	4.29	3.98
P2 05	.20	.20	.20	.10	.14
S	.07	.17	.19	.24	.25
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.07	100.17	100.20	100.24	100.26

TRACE ELEMENT CHEMISTRY (PPM)

BA	932.00	924.00	1103.00	895.00	730.00
CU	14.00	19.00	50.00	27.00	27.00
PB	22.00	22.00	180.00	51.00	62.00
ZN	76.00	96.00	166.00	120.00	116.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	99.00	99.00	98.00	90.00	84.00
V	122.00	108.00	97.00	115.00	103.00
CO	31.00	27.00	26.00	29.00	27.00
NI	50.00	44.00	38.00	43.00	39.00
MB	3.00	4.00	3.00	3.00	3.00
RB	200.00	187.00	157.00	161.00	164.00
SR	47.00	42.00	50.00	116.00	115.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F13720	F13721	F13722	F13724	F13725
ROCK TYPE	1D	1D	1D	1D+1F	1D
SEQUENCE NO	3170	3171	3172	3173	3174
SI 02	57.49	59.94	58.13	54.19	61.77
TI 02	.67	.63	.69	1.32	.52
AL2 03	22.56	21.55	23.46	20.59	21.54
FE2 03	10.67	8.97	8.42	10.41	8.65
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.09	.06	.06	.14	.05
MG 0	2.73	2.45	2.62	5.12	2.34
CA 0	.76	1.57	1.05	4.32	.44
NA2 0	.92	.93	.97	1.05	.72
K2 0	3.96	3.50	4.40	2.51	3.80
P2 05	.14	.40	.20	.36	.16
S	.46	.48	.16	.18	.38
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.45	100.48	100.16	100.19	100.37

TRACE ELEMENT CHEMISTRY (PPM)

BA	962.00	793.00	1017.00	748.00	933.00
CU	40.00	40.00	30.00	39.00	62.00
PB	40.00	30.00	28.00	50.00	40.00
ZN	130.00	109.00	94.00	156.00	130.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	104.00	96.00	110.00	260.00	95.00
V	116.00	116.00	100.00	170.00	108.00
CO	31.00	28.00	29.00	43.00	31.00
NI	51.00	36.00	37.00	120.00	49.00
MB	3.00	4.00	3.00	4.00	4.00
RB	154.00	134.00	179.00	105.00	156.00
SR	103.00	105.00	110.00	225.00	104.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F13726	F15751	F15752	F15753	F15754
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3175	3176	3177	3178	3179
SI 02	62.29	57.57	62.29	58.51	65.72
TI 02	.55	.58	.50	.60	.58
AL2 03	21.08	23.28	20.91	23.38	17.23
FE2 03	8.03	9.58	9.15	9.41	8.87
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.06	.07	.10	.09	.09
MG 0	2.17	2.47	2.20	2.25	2.31
CA 0	.76	1.06	.61	.76	1.61
NA2 0	.69	.88	.96	.76	.70
K2 0	4.22	4.29	3.09	4.02	2.73
P2 05	.16	.22	.19	.22	.17
S	.18	.13	.05	.23	.33
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.19	100.13	100.05	100.23	100.34

TRACE ELEMENT CHEMISTRY (PPM)

BA	971.00	1136.00	902.00	986.00	804.00
CU	32.00	33.00	22.00	28.00	30.00
PB	40.00	22.00	34.00	22.00	60.00
ZN	131.00	131.00	104.00	116.00	137.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	99.00	80.00	73.00	78.00	75.00
V	110.00	125.00	100.00	115.00	100.00
CO	28.00	32.00	30.00	31.00	32.00
NI	40.00	47.00	39.00	45.00	45.00
MB	3.00	3.00	2.00	4.00	3.00
RB	174.00	162.00	117.00	161.00	116.00
SR	119.00	114.00	124.00	107.00	153.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15755	F15756	F15757	F15758	F15759
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3180	3181	3183	3184	3185
SI 02	58.56	60.87	57.30	62.25	60.80
TI 02	.57	.54	.49	.54	.58
AL2 03	21.70	22.02	23.52	21.40	21.98
FE2 03	10.26	8.83	9.62	8.28	8.73
FE 0	-.01	-.01	-.01	-.01	-.01
MN 0	.13	.06	.06	.05	.05
MG 0	2.86	2.22	2.54	2.30	2.32
CA 0	1.70	.64	1.03	.74	.60
NA2 0	.73	.79	.73	.54	.73
K2 0	3.33	3.86	4.54	3.69	4.05
P2 05	.16	.17	.16	.20	.15
S	.52	.21	.22	.21	.36
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.52	100.21	100.21	100.20	100.35

TRACE ELEMENT CHEMISTRY (PPM)

BA	1268.00	897.00	909.00	884.00	1001.00
CU	56.00	32.00	35.00	26.00	33.00
PB	40.00	23.00	24.00	15.00	18.00
ZN	156.00	118.00	117.00	107.00	94.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	85.00	95.00	85.00	59.00	50.00
V	115.00	102.00	100.00	90.00	90.00
CO	35.00	30.00	34.00	29.00	29.00
NI	48.00	41.00	53.00	39.00	37.00
MB	3.00	3.00	3.00	4.00	4.00
RB	127.00	165.00	177.00	147.00	156.00
SR	128.00	126.00	133.00	110.00	112.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15760	F15761	F15762	F15763	F15764
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3186	3187	3188	3189	3190
SI O2	63.42	58.33	69.33	62.85	58.05
TI O2	.60	.56	.36	.51	.63
AL2 O3	21.18	22.06	16.56	20.56	23.05
FE2 O3	6.84	9.52	6.95	7.24	10.10
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.05	.08	.05	.09	.05
MG O	1.84	2.81	1.83	1.99	2.37
CA O	1.02	1.43	.84	1.78	.53
NA2 O	.70	1.06	.98	1.05	1.00
K2 O	4.12	3.87	2.93	3.72	4.02
P2 O5	.24	.27	.16	.19	.19
S	.41	.23	.12	.14	.94
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.42	100.22	100.11	100.12	100.93

TRACE ELEMENT CHEMISTRY (PPM)

BA	1096.00	981.00	752.00	956.00	854.00
CU	44.00	44.00	33.00	43.00	80.00
PB	30.00	16.00	23.00	28.00	18.00
ZN	106.00	97.00	61.00	76.00	84.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	55.00	80.00	78.00	86.00	104.00
V	85.00	120.00	80.00	110.00	120.00
CO	25.00	32.00	27.00	28.00	37.00
NI	31.00	46.00	29.00	34.00	53.00
MB	4.00	3.00	4.00	4.00	4.00
RB	146.00	153.00	122.00	139.00	167.00
SR	105.00	109.00	122.00	181.00	105.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15765	F15766	F15767	F15768	F15769
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3191	3192	3193	3194	3195
SI O2	58.22	61.65	57.88	57.22	63.57
TI O2	.55	.55	.65	.54	.63
AL2 O3	23.35	21.22	24.05	20.50	20.11
FE2 O3	8.73	8.74	8.87	10.95	8.13
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.11	.07	.09	.15	.05
MG O	2.19	2.15	2.30	3.36	2.12
CA O	1.43	.64	.85	2.79	.58
NA2 O	1.02	.82	1.12	1.02	.94
K2 O	4.17	3.95	4.04	3.27	3.67
P2 O5	.23	.20	.16	.19	.21
S	.26	.25	.22	.43	.32
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.26	100.24	100.23	100.42	100.33

TRACE ELEMENT CHEMISTRY (PPM)

BA	866.00	826.00	917.00	775.00	827.00
CU	24.00	24.00	21.00	38.00	29.00
PB	24.00	19.00	25.00	22.00	30.00
ZN	82.00	83.00	80.00	76.00	76.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	88.00	83.00	105.00	80.00	87.00
V	98.00	106.00	125.00	85.00	110.00
CO	29.00	29.00	31.00	31.00	32.00
NI	34.00	40.00	34.00	38.00	39.00
MB	4.00	3.00	4.00	3.00	4.00
RB	172.00	174.00	172.00	145.00	162.00
SR	138.00	111.00	127.00	169.00	96.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	F15770	F15771	F15772	F15774	F15776
ROCK TYPE	1D	1D	1D	1D	1D
SEQUENCE NO	3196	3197	3198	3200	3202
SI O2	64.50	56.56	65.36	61.50	64.13
TI O2	.51	.67	.53	.50	.50
AL2 O3	19.38	24.50	18.74	21.30	19.28
FE2 O3	8.24	9.51	8.30	8.42	8.76
FE O	-.01	-.01	-.01	-.01	-.01
MN O	.09	.10	.08	.08	.09
MG O	2.08	2.49	2.02	2.02	2.01
CA O	.86	.93	.78	.88	.63
NA2 O	.89	1.01	.82	1.25	1.19
K2 O	3.18	3.99	3.18	3.91	3.30
P2 O5	.26	.24	.20	.14	.10
S	.36	.38	.15	.04	.25
L.O.I.	0.	0.	0.	0.	0.
TOTAL	100.35	100.38	100.16	100.04	100.24

TRACE ELEMENT CHEMISTRY (PPM)

BA	725.00	863.00	729.00	863.00	834.00
CU	34.00	51.00	32.00	28.00	53.00
PB	32.00	64.00	33.00	22.00	16.00
ZN	70.00	109.00	107.00	125.00	109.00
CD	0.	0.	0.	0.	0.
AG	.20	.20	.20	.20	.20
CR	81.00	94.00	80.00	83.00	78.00
V	100.00	116.00	108.00	115.00	110.00
CO	27.00	31.00	28.00	29.00	35.00
NI	40.00	50.00	50.00	38.00	57.00
MB	3.00	4.00	3.00	4.00	3.00
RB	134.00	170.00	140.00	168.00	139.00
SR	106.00	115.00	102.00	122.00	108.00
ZR	-.01	-.01	-.01	-.01	-.01
Y	-.01	-.01	-.01	-.01	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F15778

ROCK TYPE 1D

SEQUENCE NO 3204

SI O2	63.68
TI O2	.45
AL2 O3	15.67
FE2 O3	10.14
FE O	-.01
MN O	.10
MG O	2.96
CA O	3.53
NA2 O	.97
K2 O	2.26
P2 O5	.23
S	.23
L.O.I.	0.

TOTAL 100.22

TRACE ELEMENT CHEMISTRY (PPM)

BA	553.00
CU	42.00
PB	16.00
ZN	90.00
CD	0.
AG	.20
CR	63.00
V	85.00
CO	34.00
NI	38.00
MB	3.00
RB	100.00
SR	169.00
ZR	-.01
Y	-.01

GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID	C1207	C19743	C15773
ROCK TYPE	STD SY-3	STD SY-3	STD SY-3
SEQUENCE NO	3107	3151	3199
SI 02	59.54	60.41	59.98
TI 02	.13	.14	.13
AL2 03	11.57	11.86	12.07
FE2 03	6.92	6.82	7.10
FE 0	-.01	-.01	-.01
MN 0	.34	.30	.33
MG 0	2.68	2.63	2.68
CA 0	9.05	8.54	8.55
NA2 0	4.83	4.42	4.33
K2 0	4.43	4.37	4.18
P2 05	.52	.49	.65
S	.06	.05	.04
L.O.I.	0.	0.	0.
TOTAL	100.07	100.03	100.04

TRACE ELEMENT CHEMISTRY (PPM)

BA	455.00	492.00	445.00
CU	18.00	20.00	17.00
PB	126.00	134.00	131.00
ZN	196.00	195.00	176.00
CD	0.	0.	0.
AG	.20	.20	.20
CR	6.00	5.00	5.00
V	50.00	58.00	50.00
CO	20.00	24.00	20.00
NI	8.00	5.00	4.00
MB	3.00	3.00	3.00
RB	181.00	193.00	176.00
SR	240.00	250.00	251.00
ZR	310.00	-.01	-.01
Y	728.00	-.01	-.01

01/11/80

CYPRUS ANVIL MINING CORPORATION

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GEOCHEMICAL DATA (PERCENT)

GROUP 3

SPECIMEN ID F1232

ROCK TYPE 2A

SEQUENCE NO 3136

SI 02	69.01
TI 02	.22
AL2 03	11.21
FE2 03	15.16
FE 0	-.01
MN 0	.04
MG 0	.58
CA 0	.20
NA2 0	.20
K2 0	3.30
P2 05	.08
S	8.21
L.O.I.	0.

TOTAL 108.21

TRACE ELEMENT CHEMISTRY (PPM)

BA	2093.00
CU	500.00
PB	200.00
ZN	520.00
CD	.60
AG	1.40
CR	65.00
V	180.00
CO	120.00
NI	39.00
MB	8.00
RB	96.00
SR	15.00
ZR	-.01
Y	-.01

PROCESSING COMPLETE
STOP

JANUARY 21, 1980

T-Test for Means

3D

3D Wolverine

Major elements

Normalized without L.O.I. 5 included

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21, 1979

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 GET FILE GCHSS3

FILE GCHSS3 HAS 35 VARIABLES
 THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS3	374

COMPUTE NCODE=9
 IF (ROCKCODE EQ 18 AND (SEQ NE 2057 AND 2061)) NCODE=1
 IF (ROCKCODE EQ 19) NCODE=2

COMPUTE NCODE2=9
 IF (ROCKCODE EQ 18 OR 19 AND (SEQ NE 2057 AND 2061)) NCODE2=1
 IF (ROCKCODE EQ 21 OR 22 OR 23 AND (SEQ NE 2074 AND 2076 AND 2078
 AND 2088)) NCODE2=2

*SELECT IF (NCODE EQ 1)
 TASK NAME ROCK CODE 18 - EXCLUDING SEQ NO'S 2057 & 2061
 CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	52.684	STD ERROR	1.023	STD DEV	3.391
VARIANCE	11.501	KURTOSIS	.810	SKEWNESS	.864
RANGE	9.470	MINIMUM	46.430	MAXIMUM	55.900
SUM	579.520				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE TI02

MEAN	.702	STD ERROR	.188	STD DEV	.623
VARIANCE	.388	KURTOSIS	6.025	SKEWNESS	2.255
RANGE	2.280	MINIMUM	.110	MAXIMUM	2.390
SUM	7.720				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	18.512	STD ERROR	.846	STD DEV	2.805
VARIANCE	7.867	KURTOSIS	4.382	SKEWNESS	2.014
RANGE	9.970	MINIMUM	15.780	MAXIMUM	25.750
SUM	203.630				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	8.337	STD ERROR	.720	STD DEV	2.388
VARIANCE	5.701	KURTOSIS	3.245	SKEWNESS	1.873
RANGE	7.780	MINIMUM	6.480	MAXIMUM	14.260
SUM	91.710				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

VARIABLE MNO

MEAN	.098	STD ERROR	.008	STD DEV	.028
VARIANCE	.001	KURTOSIS	1.270	SKEWNESS	.906
RANGE	.100	MINIMUM	.060	MAXIMUM	.160
SUM	1.080				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	4.059	STD ERROR	.350	STD DEV	1.160
VARIANCE	1.345	KURTOSIS	6.253	SKEWNESS	2.392
RANGE	3.930	MINIMUM	3.300	MAXIMUM	7.230
SUM	44.650				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.605	STD ERROR	1.197	STD DEV	3.971
VARIANCE	15.766	KURTOSIS	-.325	SKEWNESS	-.147
RANGE	13.110	MINIMUM	3.530	MAXIMUM	16.640
SUM	116.660				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.600	STD ERROR	.227	STD DEV	.754
VARIANCE	.569	KURTOSIS	-1.381	SKEWNESS	-.303
RANGE	2.100	MINIMUM	.350	MAXIMUM	2.450
SUM	17.600				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.161	STD ERROR	.307	STD DEV	1.018
VARIANCE	1.035	KURTOSIS	.055	SKEWNESS	-1.069
RANGE	3.140	MINIMUM	1.220	MAXIMUM	4.360
SUM	34.770				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.238	STD ERROR	.048	STD DEV	.158
VARIANCE	.025	KURTOSIS	4.711	SKEWNESS	2.169
RANGE	.520	MINIMUM	.130	MAXIMUM	.650
SUM	2.620				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 298 WORDS
7 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
71 IF/COMPUTE OPERATIONS

*SELECT IF (NCODE EQ 2)
TASK NAME ROCK CODE 19
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 19

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	53.320	STD ERROR	.721	STD DEV	1.248
VARIANCE	1.558	KURTOSIS	0.	SKEWNESS	-.736
RANGE	2.470	MINIMUM	51.980	MAXIMUM	54.450
SUM	159.960				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE TI02

MEAN	.473	STD ERROR	.043	STD DEV	.075
VARIANCE	.006	KURTOSIS	0.	SKEWNESS	.199
RANGE	.150	MINIMUM	.400	MAXIMUM	.550
SUM	1.420				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	16.230	STD ERROR	1.275	STD DEV	2.208
VARIANCE	4.877	KURTOSIS	0.	SKEWNESS	1.732
RANGE	3.840	MINIMUM	14.940	MAXIMUM	18.780
SUM	48.690				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	6.673	STD ERROR	.758	STD DEV	1.312
VARIANCE	1.722	KURTOSIS	0.	SKEWNESS	-.691
RANGE	2.600	MINIMUM	5.270	MAXIMUM	7.870
SUM	20.020				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

ROCK CODE 19

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.063	STD ERROR	.007	STD DEV	.012
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	-1.732
RANGE	.020	MINIMUM	.050	MAXIMUM	.070
SUM	.190				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	3.960	STD ERROR	.720	STD DEV	1.247
VARIANCE	1.556	KURTOSIS	0.	SKEWNESS	.834
RANGE	2.460	MINIMUM	2.850	MAXIMUM	5.310
SUM	11.880				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	13.760	STD ERROR	3.123	STD DEV	5.409
VARIANCE	29.258	KURTOSIS	0.	SKEWNESS	.826
RANGE	10.670	MINIMUM	8.940	MAXIMUM	19.610
SUM	41.280				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE NA20

MEAN	1.353	STD ERROR	.429	STD DEV	.742
VARIANCE	.551	KURTOSIS	0.	SKEWNESS	1.723
RANGE	1.310	MINIMUM	.900	MAXIMUM	2.210
SUM	4.060				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

ROCK CODE 19

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	3.953	STD ERROR	.201	STD DEV	.348
VARIANCE	.121	KURTOSIS	0.	SKEWNESS	-.712
RANGE	.690	MINIMUM	3.580	MAXIMUM	4.270
SUM	11.860				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.203	STD ERROR	.027	STD DEV	.046
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	-1.732
RANGE	.080	MINIMUM	.150	MAXIMUM	.230
SUM	.610				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED: 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

TASK NAME ROCK CODE 18 VS 19
T-TEST GROUPS= NCODE(1,2)/ VARIABLES= SI02 TO 8

***** T-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

----- T - T E S T -----

GROUP 1 - NCODE EQ 1:
GROUP 2 - NCODE EQ 2:

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *		
					F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE

CAO										
GROUP 1	11	10.6055	3.971	1.197						
GROUP 2	3	13.7600	5.409	3.123	1.86	.411	-1.14	12	.276	-.94 2.62 .415

NA20										
GROUP 1	11	1.6000	.754	.227						
GROUP 2	3	1.3533	.742	.429	1.03	1.000	.50	12	.624	.51 3.23 .646

K20										
GROUP 1	11	3.1609	1.018	.307						
GROUP 2	3	3.9533	.348	.201	8.53	.229	-1.29	12	.220	-2.16 10.63 .054

P205										
GROUP 1	11	.2382	.158	.048						
GROUP 2	3	.2033	.046	.027	11.64	.178	.37	12	.719	.64 11.56 .534

S										
GROUP 1	0	0.	0.	0.	0.	1.000	0.	0	1.000	0. 0. 1.000
GROUP 2	0	0.	0.	0.						

*SELECT IF (NCODE2 EQ 1)
TASK NAME ROCK CODES 18 & 19 - EXCLUDING SEQ NO'S 2057 & 2061
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SIO2

MEAN	52.820	STD ERROR	.809	STD DEV	3.027
VARIANCE	9.160	KURTOSIS	-.059	SKEWNESS	-1.032
RANGE	9.470	MINIMUM	46.430	MAXIMUM	55.900
SUM	739.480				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE TIO2

MEAN	.653	STD ERROR	.148	STD DEV	.555
VARIANCE	.308	KURTOSIS	8.099	SKEWNESS	2.619
RANGE	2.280	MINIMUM	.110	MAXIMUM	2.390
SUM	9.140				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	18.023	STD ERROR	.744	STD DEV	2.783
VARIANCE	7.746	KURTOSIS	4.089	SKEWNESS	1.761
RANGE	10.810	MINIMUM	14.940	MAXIMUM	25.750
SUM	252.320				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	7.981	STD ERROR	.607	STD DEV	2.270
VARIANCE	5.152	KURTOSIS	4.045	SKEWNESS	1.909
RANGE	8.990	MINIMUM	5.270	MAXIMUM	14.260
SUM	111.730				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.091	STD ERROR	.008	STD DEV	.029
VARIANCE	.001	KURTOSIS	1.111	SKEWNESS	.939
RANGE	.110	MINIMUM	.050	MAXIMUM	.160
SUM	1.270				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	4.038	STD ERROR	.302	STD DEV	1.130
VARIANCE	1.276	KURTOSIS	4.435	SKEWNESS	1.977
RANGE	4.380	MINIMUM	2.850	MAXIMUM	7.230
SUM	56.530				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.281	STD ERROR	1.147	STD DEV	4.293
VARIANCE	18.433	KURTOSIS	.010	SKEWNESS	.192
RANGE	16.080	MINIMUM	3.530	MAXIMUM	19.610
SUM	157.940				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.547	STD ERROR	.195	STD DEV	.730
VARIANCE	.533	KURTOSIS	-1.569	SKEWNESS	-.081
RANGE	2.100	MINIMUM	.350	MAXIMUM	2.450
SUM	21.660				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.331	STD ERROR	.258	STD DEV	.964
VARIANCE	.929	KURTOSIS	.944	SKEWNESS	-1.342
RANGE	3.140	MINIMUM	1.220	MAXIMUM	4.360
SUM	46.630				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.231	STD ERROR	.037	STD DEV	.140
VARIANCE	.020	KURTOSIS	6.320	SKEWNESS	2.426
RANGE	.520	MINIMUM	.130	MAXIMUM	.650
SUM	3.230				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (NCODE2 EQ 2)
TASK NAME ROCK CODES 21, 22, 23 - EXCLUDING SEQ NO'S 2074 2076 2078 2088
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SIO2

MEAN	51.414	STD ERROR	2.286	STD DEV	7.919
VARIANCE	62.716	KURTOSIS	3.502	SKEWNESS	-1.261
RANGE	32.230	MINIMUM	31.380	MAXIMUM	63.610
SUM	616.970				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE TIO2

MEAN	.502	STD ERROR	.177	STD DEV	.613
VARIANCE	.375	KURTOSIS	.180	SKEWNESS	1.271
RANGE	1.770	MINIMUM	0.	MAXIMUM	1.770
SUM	6.020				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	16.206	STD ERROR	1.102	STD DEV	3.817
VARIANCE	14.573	KURTOSIS	-.998	SKEWNESS	-.250
RANGE	11.990	MINIMUM	9.720	MAXIMUM	21.710
SUM	194.470				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	8.008	STD ERROR	.942	STD DEV	3.263
VARIANCE	10.645	KURTOSIS	-.028	SKEWNESS	1.015
RANGE	10.280	MINIMUM	3.960	MAXIMUM	14.240
SUM	96.100				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.120	STD ERROR	.012	STD DEV	.043
VARIANCE	.002	KURTOSIS	-.849	SKEWNESS	.574
RANGE	.120	MINIMUM	.070	MAXIMUM	.190
SUM	1.440				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	4.094	STD ERROR	.675	STD DEV	2.339
VARIANCE	5.470	KURTOSIS	5.102	SKEWNESS	2.179
RANGE	8.420	MINIMUM	2.080	MAXIMUM	10.500
SUM	49.130				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	15.013	STD ERROR	3.557	STD DEV	12.322
VARIANCE	151.834	KURTOSIS	5.672	SKEWNESS	2.290
RANGE	43.510	MINIMUM	5.780	MAXIMUM	49.290
SUM	180.160				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE NA2O

MEAN	2.258	STD ERROR	.462	STD DEV	1.602
VARIANCE	2.566	KURTOSIS	.275	SKEWNESS	1.063
RANGE	5.200	MINIMUM	.510	MAXIMUM	5.710
SUM	27.100				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE K20

MEAN	2.186	STD ERROR	.441	STD DEV	1.528
VARIANCE	2.336	KURTOSIS	-1.313	SKEWNESS	-.022
RANGE	4.230	MINIMUM	.110	MAXIMUM	4.340
SUM	26.230				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.199	STD ERROR	.023	STD DEV	.080
VARIANCE	.006	KURTOSIS	-.123	SKEWNESS	.965
RANGE	.240	MINIMUM	.120	MAXIMUM	.360
SUM	2.390				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

TRANSPACE REQUIRED: 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

TASK NAME ROCK CODES 18 19 VS 21 22 23
T-TEST GROUPS= NCODE2 (1,2)/ VARIABLES= S102 TO S

***** T-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

----- T - T E S T -----

GROUP 1 - NCODE2 EQ 1:
GROUP 2 - NCODE2 EQ 2:

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *							
					* F VALUE *	* 2-TAIL PROB. *	* T VALUE *	* DEGREES OF FREEDOM *	* 2-TAIL PROB. *	* T VALUE *	* DEGREES OF FREEDOM *	* 2-TAIL PROB. *			
SI02	GROUP 1	14	52.8200	3.027	.809										
	GROUP 2	12	51.4142	7.919	2.286	6.85	.002	.62	24	.544	.58	13.74	.571		
TI02	GROUP 1	14	.6529	.555	.148										
	GROUP 2	12	.5017	.613	.177	1.22	.728	.66	24	.516	.65	22.51	.519		
AL203	GROUP 1	14	18.0229	2.783	.744										
	GROUP 2	12	16.2058	3.817	1.102	1.88	.277	1.40	24	.174	1.37	19.82	.187		
FE203	GROUP 1	14	7.9807	2.270	.607										
	GROUP 2	12	8.0083	3.263	.942	2.07	.214	-.03	24	.980	-.02	19.22	.981		
FEO	GROUP 1	0	0.	0.	0.										
	GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000		
MNO	GROUP 1	14	.0907	.029	.008										
	GROUP 2	12	.1200	.043	.012	2.17	.185	-2.07	24	.049	-2.01	18.91	.058		
MGO	GROUP 1	14	4.0379	1.130	.302										
	GROUP 2	12	4.0942	2.339	.675	4.29	.016	-.08	24	.937	-.08	15.32	.940		

----- T - T E S T -----

GROUP 1 - NCODE2 EQ 1.
 GROUP 2 - NCODE2 EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	F VALUE	2-TAIL PROB.	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *			
							T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	
CAO													
GROUP 1	14	11.2814	4.293	1.147	8.24	.001	-1.06	24	.298	-1.00	13.29	.336	
GROUP 2	12	15.0133	12.322	3.557									
NA20													
GROUP 1	14	1.5471	.730	.195	4.81	.010	-1.49	24	.148	-1.42	14.87	.177	
GROUP 2	12	2.2583	1.602	.462									
K20													
GROUP 1	14	3.3307	.964	.258	2.51	.117	2.32	24	.029	2.24	18.01	.038	
GROUP 2	12	2.1858	1.528	.441									
P205													
GROUP 1	14	.2307	.140	.037	3.07	.071	.69	24	.498	.72	21.15	.481	
GROUP 2	12	.1992	.080	.023									
S													
GROUP 1	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000	
GROUP 2	0	0.	0.	0.									

FINISH

NORMAL END OF JOB.
30 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.