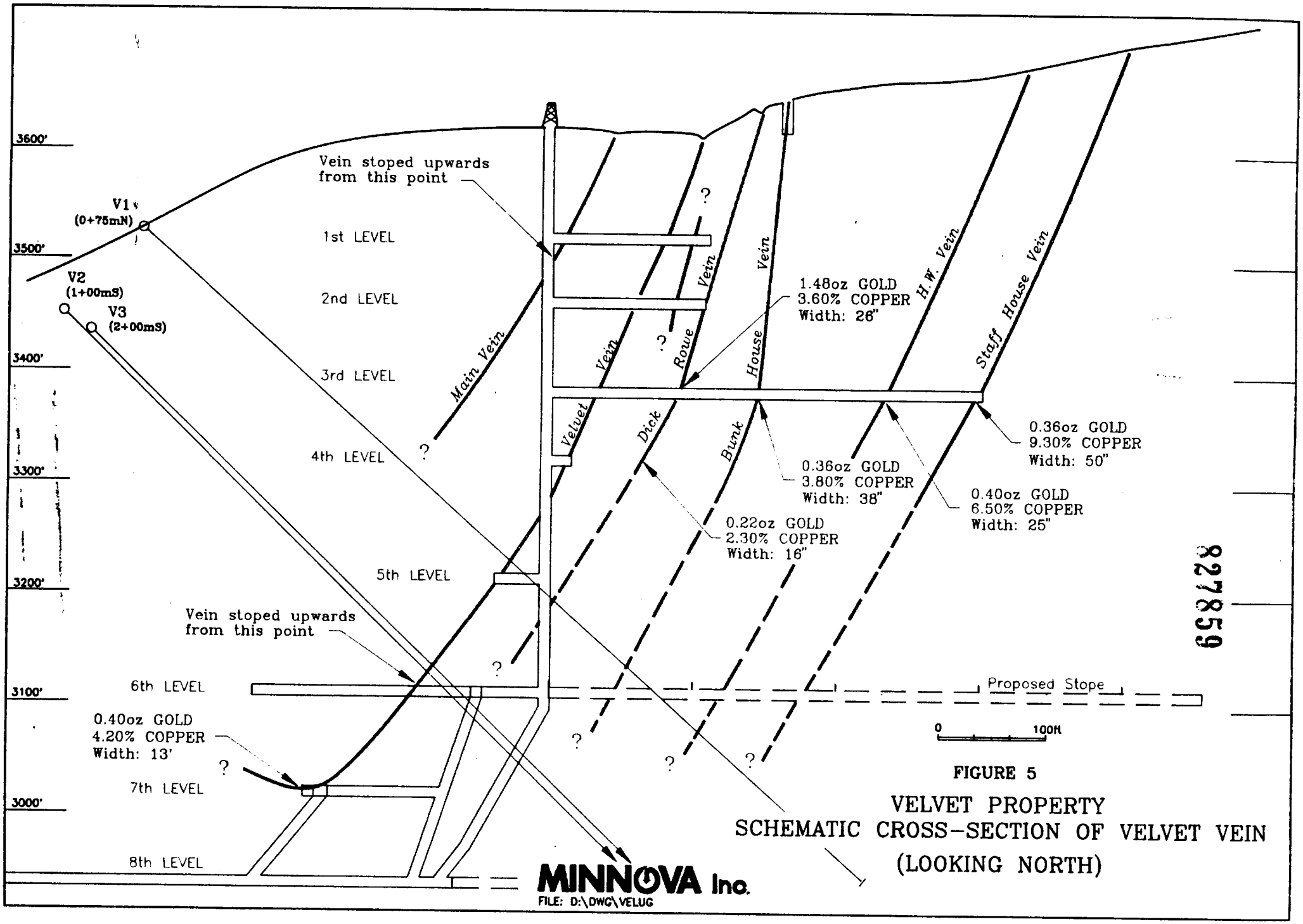


FIGURE 5

VELVET PROPERTY
SCHEMATIC CROSS-SECTION OF VELVET VEIN
(LOOKING NORTH)

827859

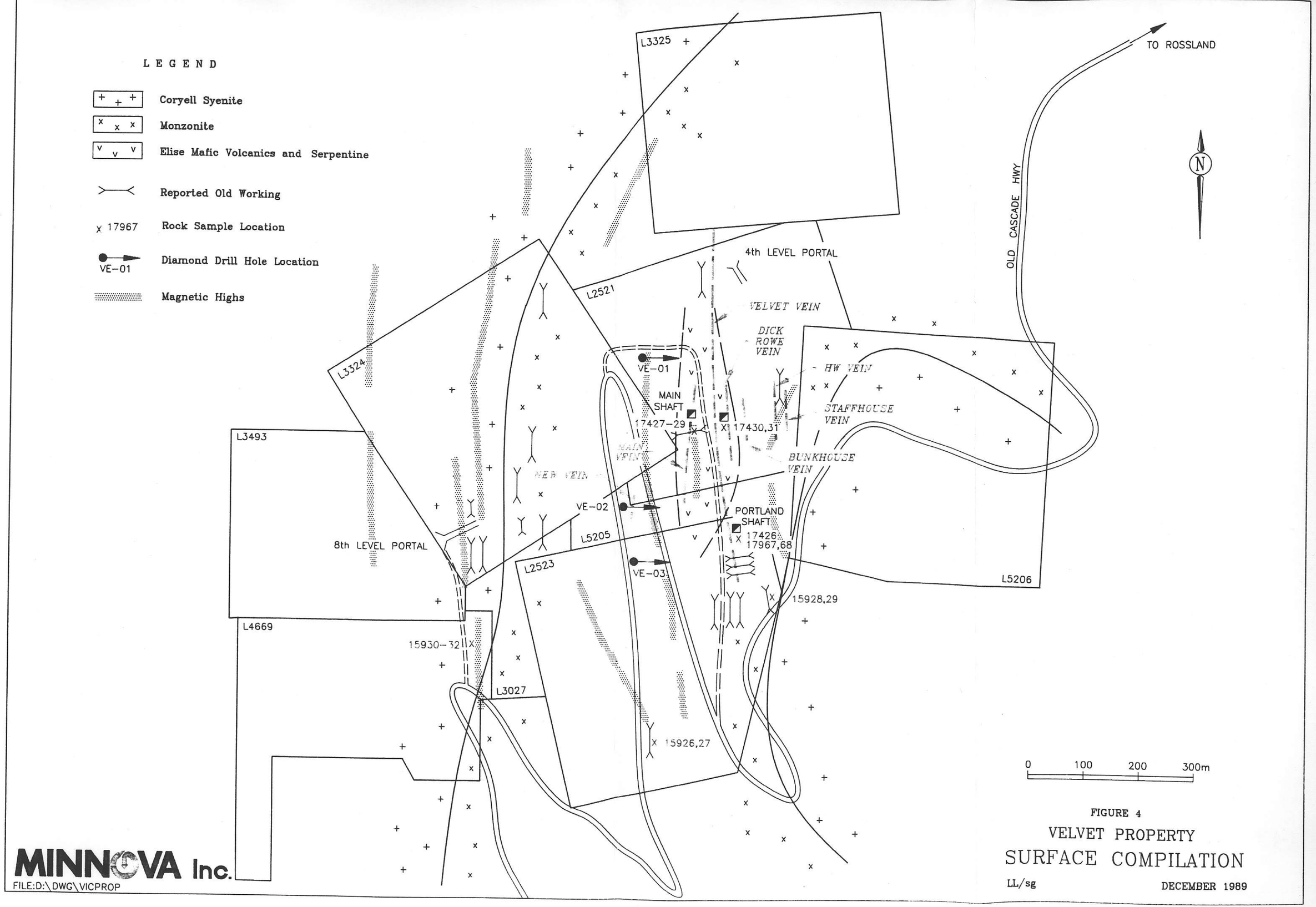


FIGURE 4

VELVET PROPERTY

SURFACE COMPILATION

LL/sg

DECEMBER 1989

Samples are classified by rock type in order to perform statistical calculations and graph results as a function of rocktype. For this tabulation, rock types are as follows:

Type 1 - Syenite (Unit 6)
Type 2 - Serpentine (Units 1A,B,C)
Type 3 - Diorite (Unit 2)
Type 4 - Mafic Volcanics (Unit 1)
Type 5 - Quartz Diorite (Unit 4)
Type 6 - Lamprophyre Dykes (Unit 7A)
Type 7 - Monzonite (Unit 3)
Type 8 - Felsite (Unit 5)
Type 9 - Syenite Border Phase (Unit 6A)

SAMPLE_NO	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SIO2	TIO2	S	TOTAL%	ROCK TYPE	LOCATION
BCD17951	16.66	.138	2.49	5.01	5.01	2.59	.10	4.49	.18	60.25	.64	.06	97.60	1	surface
BCD17953	.43	.005	.01	7.33	.01	37.21	.24	.01	.49	40.20	.01	.08	86.00	2	surface
BCD17954	15.44	.149	6.07	7.55	4.01	5.28	.15	3.21	.32	54.39	.86	.09	97.53	3	surface
BCD17956	.41	.005	.49	10.00	.10	38.31	.25	.01	.56	37.80	.01	.06	88.01	2	surface
BCD17957	17.75	.045	3.73	2.82	.87	.98	.05	5.16	.16	65.97	.29	.03	97.86	9	surface
BCD17959	.40	.005	.04	7.78	.10	35.85	.08	.02	.50	42.23	.01	.02	87.03	2	surface
BCD17961	.34	.005	.01	7.36	.03	35.34	.15	.03	.49	46.59	.01	.17	90.50	2	surface
BCD17965	18.19	.051	4.83	3.60	1.44	1.45	.11	3.96	.20	63.46	.37	.02	97.70	5	surface
BCS17970	.46	.005	.29	8.75	.19	41.88	.15	.06	.46	41.87	.01	.01	94.12	2	surface
BCS17971	17.30	.030	.82	2.97	7.18	.53	.11	5.21	.08	63.60	.29	.02	98.15	1	surface
BCS17455	14.54	.100	6.68	7.49	1.62	4.75	.13	3.09	.25	52.56	.77	.18	92.18	6	8th lev
BCS17456	17.65	.050	4.68	4.36	1.57	1.84	.09	3.90	.14	59.47	.38	.09	94.23	4	8th lev
BCS17457	.60	.005	3.79	5.77	.01	29.72	.11	.01	.40	36.81	.01	.16	77.37	2	8th lev
BCS17459	16.98	.095	4.67	5.41	2.06	2.77	.11	3.53	.19	58.71	.78	.08	95.38	4	8th lev
BCS17460	17.82	.035	5.23	4.39	1.22	2.23	.09	3.94	.16	59.66	.40	.12	95.29	3	8th lev
BCS17461	16.10	.145	4.33	5.57	4.61	3.09	.12	4.28	.13	57.16	.76	.13	96.48	1	8th lev
BCS17464	17.93	.045	4.34	4.28	2.85	1.58	.10	3.10	.15	58.94	.41	.07	93.79	4	8th lev
BCS17467	17.22	.050	5.93	3.88	2.07	1.67	.11	3.47	.16	56.97	.39	.13	92.06	9	8th lev
BCS17468	16.04	.140	4.77	5.09	4.57	2.71	.11	4.28	.17	56.75	.72	.12	95.46	1	8th lev
BCS17469	17.58	.070	4.67	4.01	3.60	1.61	.10	3.08	.14	58.14	.43	.04	93.47	3	8th lev
BCS17470	18.26	.060	1.92	4.30	2.65	2.53	.10	4.07	.13	61.15	.43	.02	95.61	7	8th lev
BCS17471	18.55	.060	3.50	4.16	2.77	1.57	.11	3.17	.13	61.16	.42	.04	95.65	7	8th lev
BCS17476	18.18	.055	5.64	4.39	1.08	1.50	.12	3.84	.17	61.15	.40	.08	96.61	7	4th lev
BCS17477	15.71	.155	5.35	5.59	4.59	3.08	.13	3.85	.20	53.92	.77	.13	95.47	7	4th lev
BCS17478	16.09	.130	5.44	6.62	4.76	5.83	.14	3.00	.22	53.48	.71	.12	96.56	6	4th lev
BCS17479	16.49	.150	6.85	6.35	2.21	3.30	.12	2.93	.23	55.62	1.08	.17	95.51	7	4th lev
BCS17482	17.14	.095	5.46	5.65	2.25	2.28	.12	3.51	.19	58.71	.78	.07	96.25	7	4th lev
BCS17483	17.17	.055	4.33	5.24	2.89	1.70	.10	2.92	.16	59.71	.40	.04	94.71	8	4th lev
BCS17527	18.04	.030	4.71	5.06	2.74	2.28	.12	3.17	.17	58.97	.42	.10	95.82	4	8th lev
BCS17531	16.37	.120	4.53	5.35	5.56	3.49	.13	3.32	.17	54.89	.71	.09	94.74	6	8th lev
BCS17533	16.35	.105	4.10	5.53	5.14	3.12	.12	3.82	.16	56.03	.76	.08	95.32	1	8th lev
BCS17538	13.01	.050	4.07	7.99	2.01	2.56	.15	1.36	.18	63.35	.34	.50	95.57	7	8th lev
BCS18276	17.66	.090	2.13	2.76	5.65	.91	.07	4.82	.10	62.63	.29	.06	97.17	1	8th lev
BCS18278	18.57	.055	1.56	6.14	4.04	2.42	.05	.37	.11	61.04	.40	.05	94.81	4	8th lev
BCS18279	15.61	.150	5.46	6.62	3.79	5.68	.11	3.29	.22	52.32	.90	.12	94.27	6	8th lev
BCS18280	15.74	.145	6.41	6.88	3.35	6.49	.14	3.04	.24	49.37	.71	.09	92.60	6	8th lev
BCS18281	16.77	.110	3.73	5.65	4.07	3.30	.09	3.64	.17	57.27	.77	.22	95.78	1	8th lev
BCS18282	16.77	.045	4.48	6.19	3.03	3.06	.15	.51	.16	57.59	.33	.63	93.00	4	8th lev
BCS18284	.73	.010	16.09	6.21	.01	22.19	.15	.01	.46	22.92	.01	.01	68.77	2	8th lev
BCS18285	16.63	.100	6.53	7.29	1.91	4.65	.13	3.40	.22	51.58	.94	.12	93.60	6	8th lev
BCS18286	16.07	.035	1.31	2.29	4.42	.46	.05	4.84	.06	67.45	.22	.04	97.26	8	8th lev
BCS18287	18.13	.045	3.60	4.00	1.07	1.30	.09	4.43	.12	61.48	.41	.01	95.20	4	8th lev

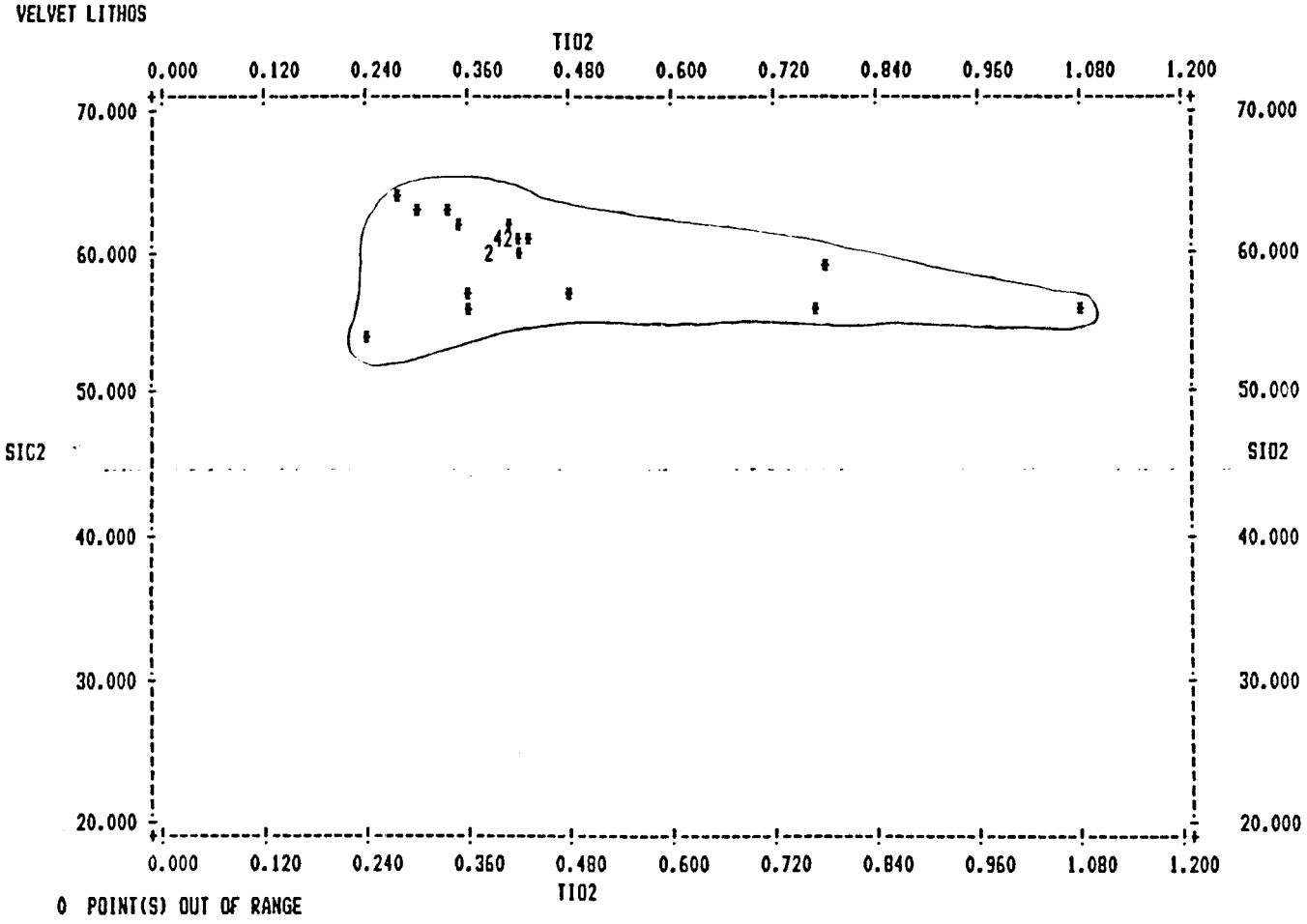
BCS18237	.50	.005	8.62	3.52	.43	28.64	.22	.08	.43	28.88	.01	.01	71.35	2	7th lev
BCS18278	18.57	.055	1.56	6.14	4.04	2.42	.05	.37	.11	61.04	.40	.05	94.81	4	8th lev
BCS18239	17.03	.105	1.31	8.40	5.38	3.23	.08	1.21	.14	58.48	.37	.06	95.80	4	7th lev
BCS18240	.67	.010	7.14	10.34	.74	35.88	.17	.14	.51	39.80	.01	.04	95.45	2	7th lev
BCS18244	.67	.010	.66	7.72	.33	36.34	.08	.06	.38	38.38	.01	.06	84.70	2	7th lev
BCS18275	13.27	.030	12.92	5.02	2.63	2.85	.18	.56	.27	48.84	.30	.05	86.92	4	8th lev
BCS18301	18.07	.035	6.70	4.08	1.01	1.44	.11	4.24	.18	60.79	.40	.01	97.07	3	7th lev
BCS18307	.32	.010	1.26	9.47	.01	31.18	.12	.01	.34	32.89	.01	.01	75.62	2	7th lev
BCS18308	.23	.010	.43	6.39	.01	33.46	.16	.01	.34	32.97	.01	.02	74.02	2	7th lev
BCS18309	.31	.010	1.76	10.47	.01	34.54	.16	.01	.44	34.20	.01	.04	81.94	2	7th lev
BCS18310	16.85	.100	1.71	2.92	5.00	1.39	.07	4.81	.10	63.65	.29	.06	96.95	1	7th lev
BCS18317	14.81	.160	4.17	6.38	3.84	5.29	.13	2.88	.20	57.05	.88	.08	95.86	6	7th lev
BCS18318	.48	.010	7.27	6.91	.01	24.53	.09	.15	.40	42.53	.01	.24	82.64	2	7th lev
BCS18320	.32	.005	1.34	8.13	.49	29.83	.12	.13	.37	35.38	.01	.02	76.14	2	7th lev
BCS18329	.33	.010	2.67	11.57	.98	28.74	.12	.13	.41	38.84	.01	.08	83.88	2	7th lev
BCD21451	17.58	.045	6.73	4.04	.88	1.35	.12	3.73	.19	60.79	.40	.02	95.87	7	vel-01
BCD21452	15.30	.140	6.29	6.21	2.54	4.17	.11	3.46	.22	53.60	1.04	.07	93.15	6	vel-o1
BCD21453	16.70	.110	2.78	3.29	4.56	1.27	.08	4.55	.11	62.18	.41	.08	96.11	1	vel-01
BCD21454	17.61	.045	6.08	4.56	2.73	2.13	.12	1.35	.17	57.82	.42	.03	93.06	4	vel-01
BCD21457	17.95	.045	6.04	4.09	1.13	1.42	.12	4.01	.17	60.56	.40	.03	95.96	7	vel-01
BCD21471	15.63	.150	5.61	5.93	4.35	4.82	.12	3.16	.21	53.38	.87	.11	94.34	6	vel-01
BCD21479	18.12	.050	4.58	4.88	2.92	1.51	.08	2.46	.16	61.25	.37	.04	96.43	4	vel-01
BCD21480	16.82	.150	3.63	4.49	5.17	1.87	.10	5.36	.14	58.63	.62	.09	97.07	1	vel-01
BCD21483	18.07	.045	5.79	4.13	.93	1.45	.10	4.24	.16	61.05	.41	.02	96.40	7	vel-01
BCD21484	17.96	.045	6.17	4.58	1.34	1.49	.12	3.84	.17	60.95	.40	.03	97.09	7	vel-01
BCD21485	15.57	.150	6.71	6.86	4.61	6.36	.14	2.80	.26	51.95	.72	.10	96.22	6	vel-01
BCD21487	18.10	.045	5.26	4.19	1.44	1.39	.10	3.97	.16	61.57	.41	.09	96.73	7	vel-01
BCD21505	17.82	.055	3.98	4.42	1.72	1.62	.08	4.21	.14	60.74	.41	.03	95.24	7	vel-02
BCD21507	17.15	.100	2.10	2.81	5.24	.89	.09	4.67	.09	63.33	.30	.07	96.81	4	vel-02
BCD21508	17.49	.045	7.13	4.09	1.24	1.41	.10	3.68	.19	59.79	.38	.03	95.57	7	vel-02
BCD21509	17.55	.050	5.60	4.01	1.64	1.47	.10	3.61	.16	60.26	.38	.03	94.85	7	vel-02
BCD21510	14.38	.155	5.22	6.01	4.46	4.11	.11	2.88	.19	57.11	.82	.10	95.54	6	vel-02
BCD21516	16.91	.095	2.07	2.75	5.38	.76	.07	4.28	.08	64.03	.29	.14	96.85	1	vel-02
BCD21577	16.99	.040	3.59	3.43	3.49	1.[illegible]	.07	2.44	.13	62.05	.38	.38	94.28	4	vel-02
BCD21580	16.35	.040	7.29	6.01	2.49	2.[illegible]	.14	3.10	.21	52.48	.55	.02	91.13	4	vel-02
BCD21594	.39	.005	.01	8.29	.01	37.64	.13	.02	.42	38.74	.01	.14	85.88	2	vel-02
BCD21596	.29	.035	.11	8.18	.01	37.14	.14	.02	.45	38.96	.01	.10	85.49	2	vel-02
BCD21527	.39	.005	.01	7.43	.01	36.53	.13	.03	.40	38.80	.01	.14	83.96	2	vel-02
BCD21529	3.17	.060	3.86	6.85	.24	27.94	.22	.28	.42	37.31	.19	.38	81.43	2	vel-02
BCD21534	16.97	.045	4.09	3.15	1.14	1.44	.08	5.41	.15	60.68	.32	.14	96.62	4	vel-02
BCD21[illegible]6	17.53	.105	1.70	3.25	6.[illegible]	.88	.07	4.44	.07	[illegible].60	.41	.07	96.68	1	vel-03

BCD19827	16.53	.125	3.98	5.18	5.77	3.25	.10	3.40	.16	55.74	.69	.08	95.00	6	vel-03
BCD19828	17.89	.055	6.55	4.35	1.24	1.51	.11	3.85	.18	59.69	.42	.04	95.86	7	vel-03
BCD19831	18.18	.020	8.55	9.01	.38	4.12	.18	3.12	.25	48.39	.76	.01	92.98	4	vel-03
BCD19835	16.39	.140	4.88	5.28	4.20	3.19	.10	3.48	.18	56.19	.68	.10	94.80	6	vel-03
BCD19840	16.33	.150	4.80	5.74	5.05	3.47	.10	3.16	.18	54.18	.87	.11	94.15	6	vel-03
BCD19844	15.45	.050	4.11	8.21	3.18	2.96	.10	.78	.17	57.43	.36	2.10	94.89	7	vel-03
BCD19854	15.55	.035	2.71	10.71	3.39	3.00	.09	.44	.16	55.54	.36	5.00	96.99	7	vel-03
BCD19855	17.47	.045	5.15	5.43	2.48	2.22	.12	3.25	.17	56.58	.48	.07	93.47	7	vel-03
BCD19861	14.50	.180	7.04	7.17	3.16	5.93	.13	2.45	.26	50.61	1.05	.11	92.59	6	vel-03
BCD19864	14.55	.155	5.37	6.05	3.02	4.22	.13	2.87	.21	55.73	.85	.12	93.28	6	vel-03
BCD19865	17.37	.045	3.18	2.87	1.83	1.09	.05	5.43	.12	63.38	.30	.04	95.70	7	vel-03
BCD19867	16.96	.060	4.07	3.33	2.71	1.62	.09	3.03	.14	62.04	.35	.02	94.42	7	vel-03
BCD19868	18.48	.015	6.89	4.39	.76	8.05	.14	1.80	.26	53.96	.24	.01	90.00	7	vel-03
BCD19869	17.33	.055	2.32	2.53	3.71	2.96	.10	1.96	.13	63.56	.28	.03	94.97	7	vel-03
BCD19871	17.73	.030	14.56	9.10	.01	20.72	.69	.02	.54	28.77	.01	.64	76.82	2	vel-03

APPENDIX II

MULTIELEMENT PLOTS

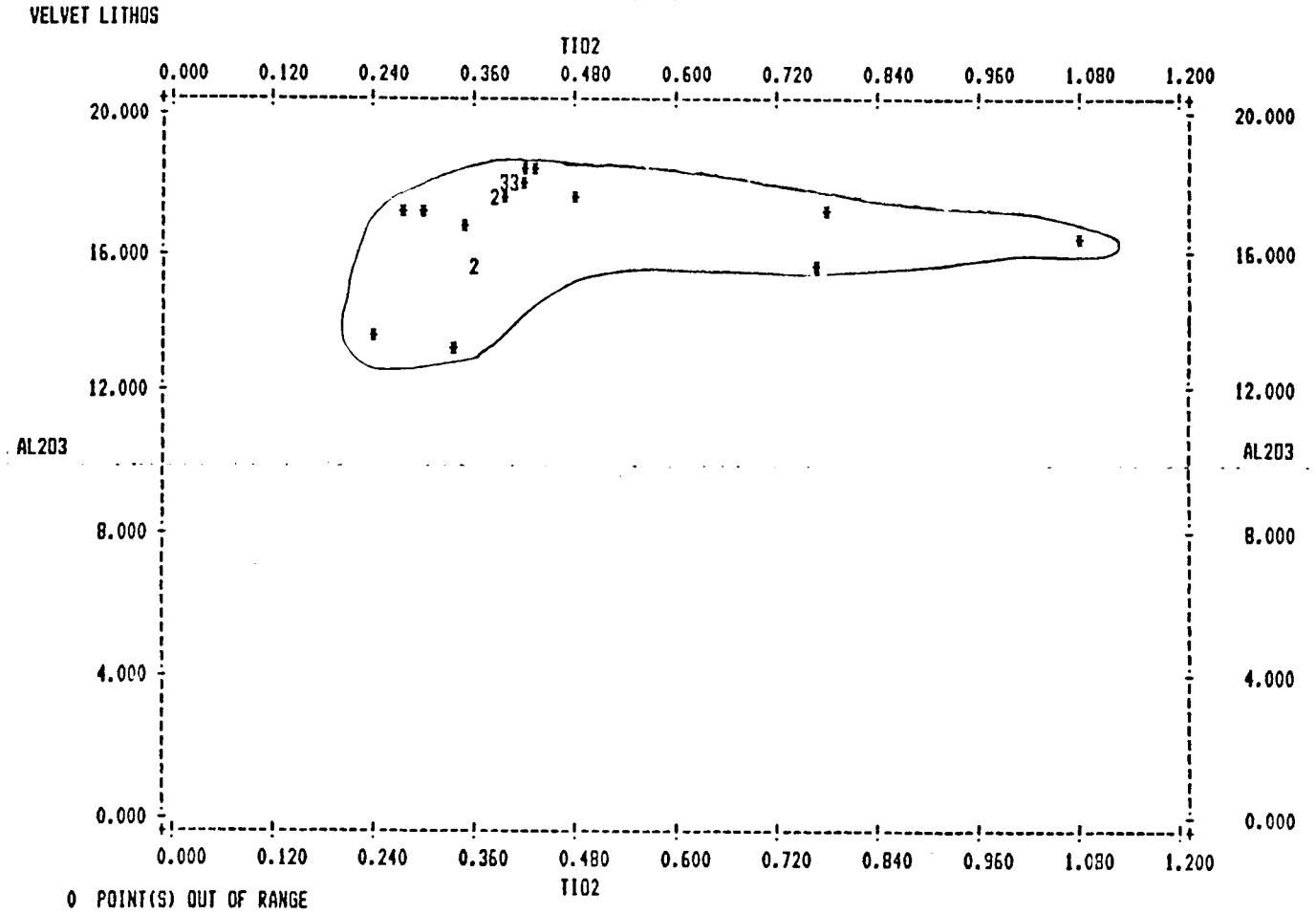
Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	SIO2
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	53.96
MAXIMUM:	1.08	63.56
MEAN:	0.44	59.78
STANDARD ERROR OF MEAN:	0.04	0.56
STANDARD DEVIATION:	0.19	2.70
COEFFICIENT OF VARIATION:	42.15	4.52
SKEWNESS:	2.07	-0.60
KURTOSIS:	3.82	-0.79

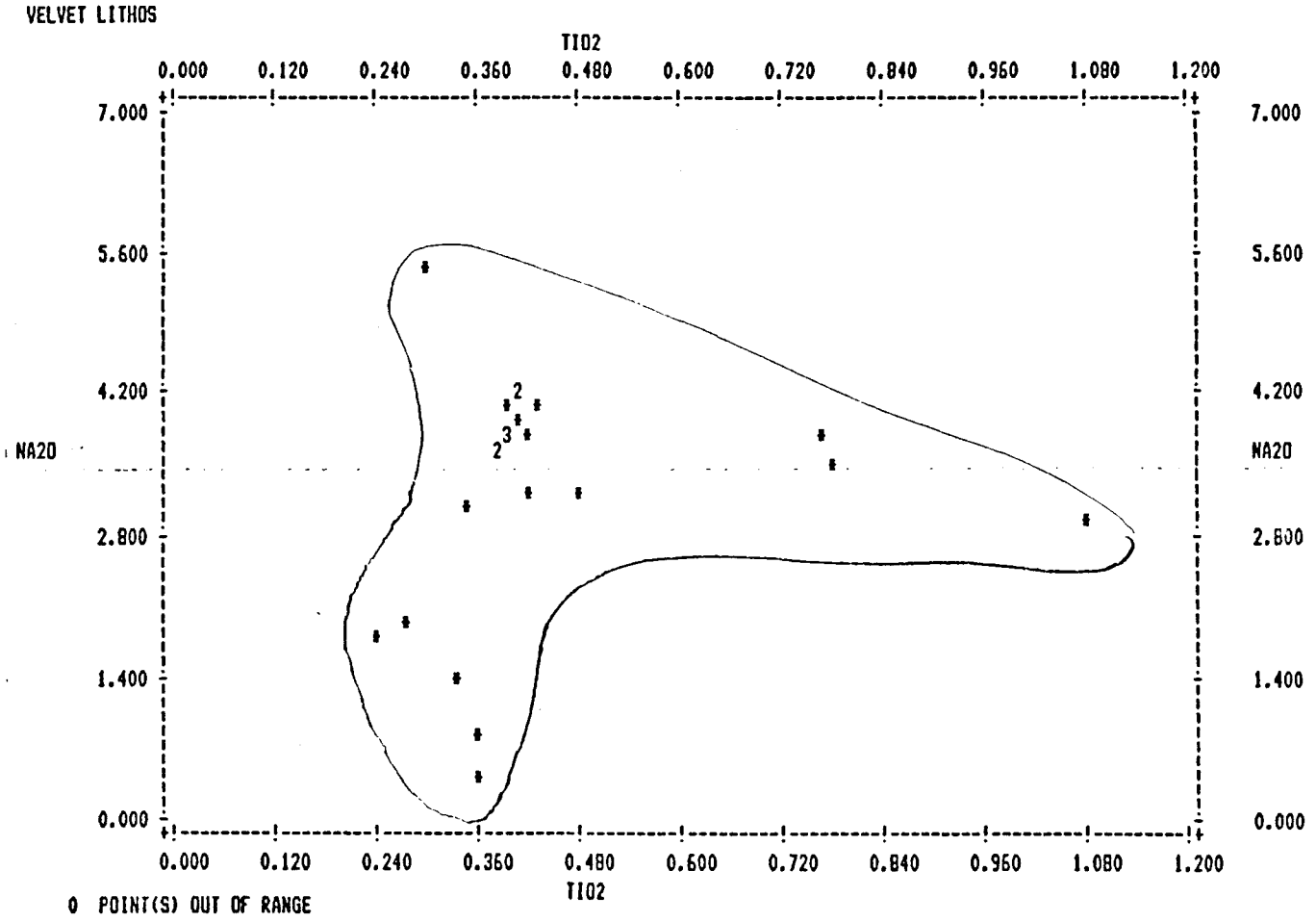
CORRELATION COEFFICIENT: -0.4291

Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	AL2O3
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	13.01
MAXIMUM:	1.08	18.55
MEAN:	0.44	17.02
STANDARD ERROR OF MEAN:	0.04	0.31
STANDARD DEVIATION:	0.19	1.46
COEFFICIENT OF VARIATION:	42.15	8.60
SKEWNESS:	2.07	-1.45
KURTOSIS:	3.82	1.19
CORRELATION COEFFICIENT:	0.0324	

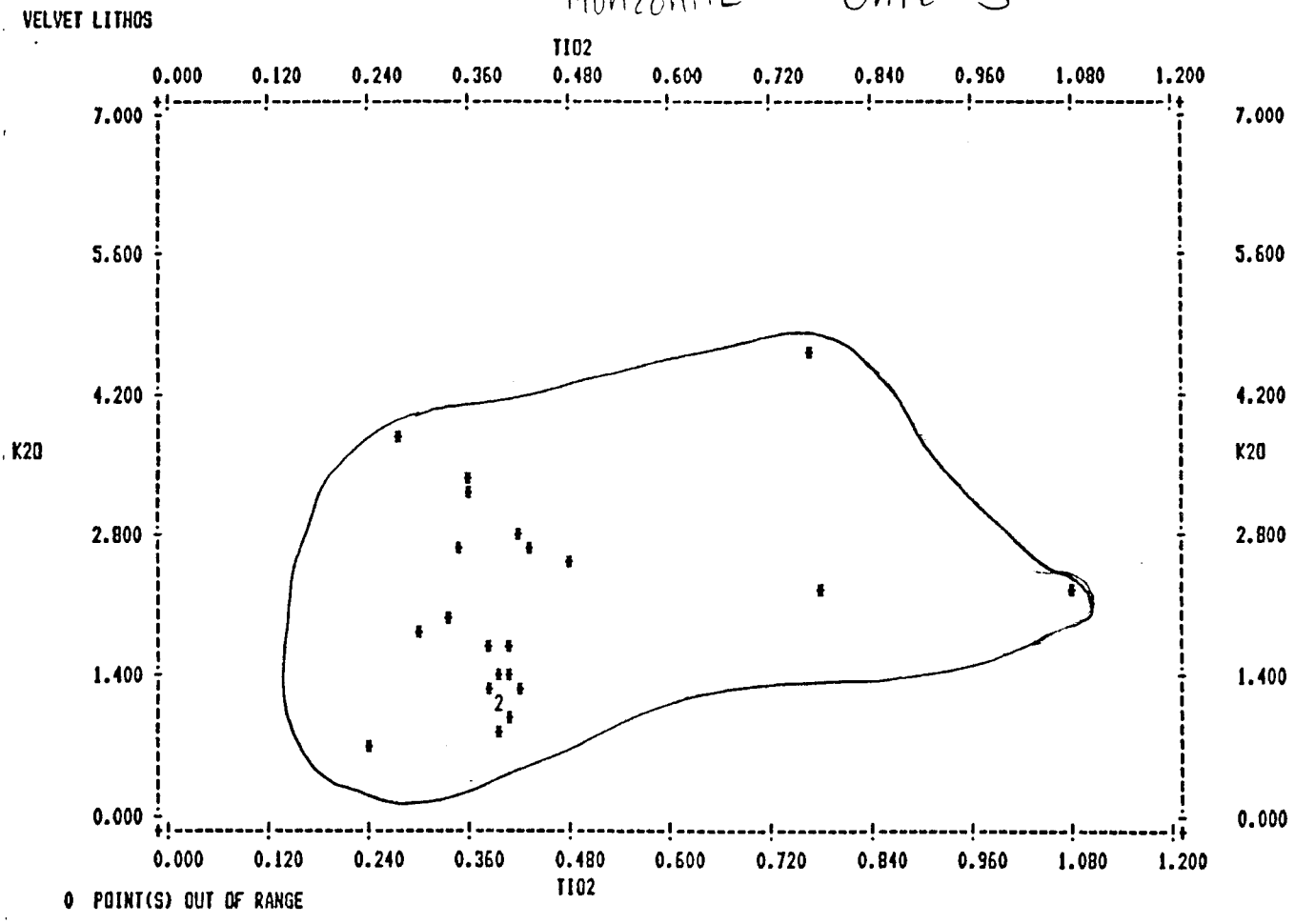
Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	NA2O
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	0.44
MAXIMUM:	1.08	5.43
MEAN:	0.44	3.24
STANDARD ERROR OF MEAN:	0.04	0.25
STANDARD DEVIATION:	0.19	1.20
COEFFICIENT OF VARIATION:	42.15	37.17
SKEWNESS:	2.07	-0.84
KURTOSIS:	3.82	-0.02

CORRELATION COEFFICIENT: 0.1335

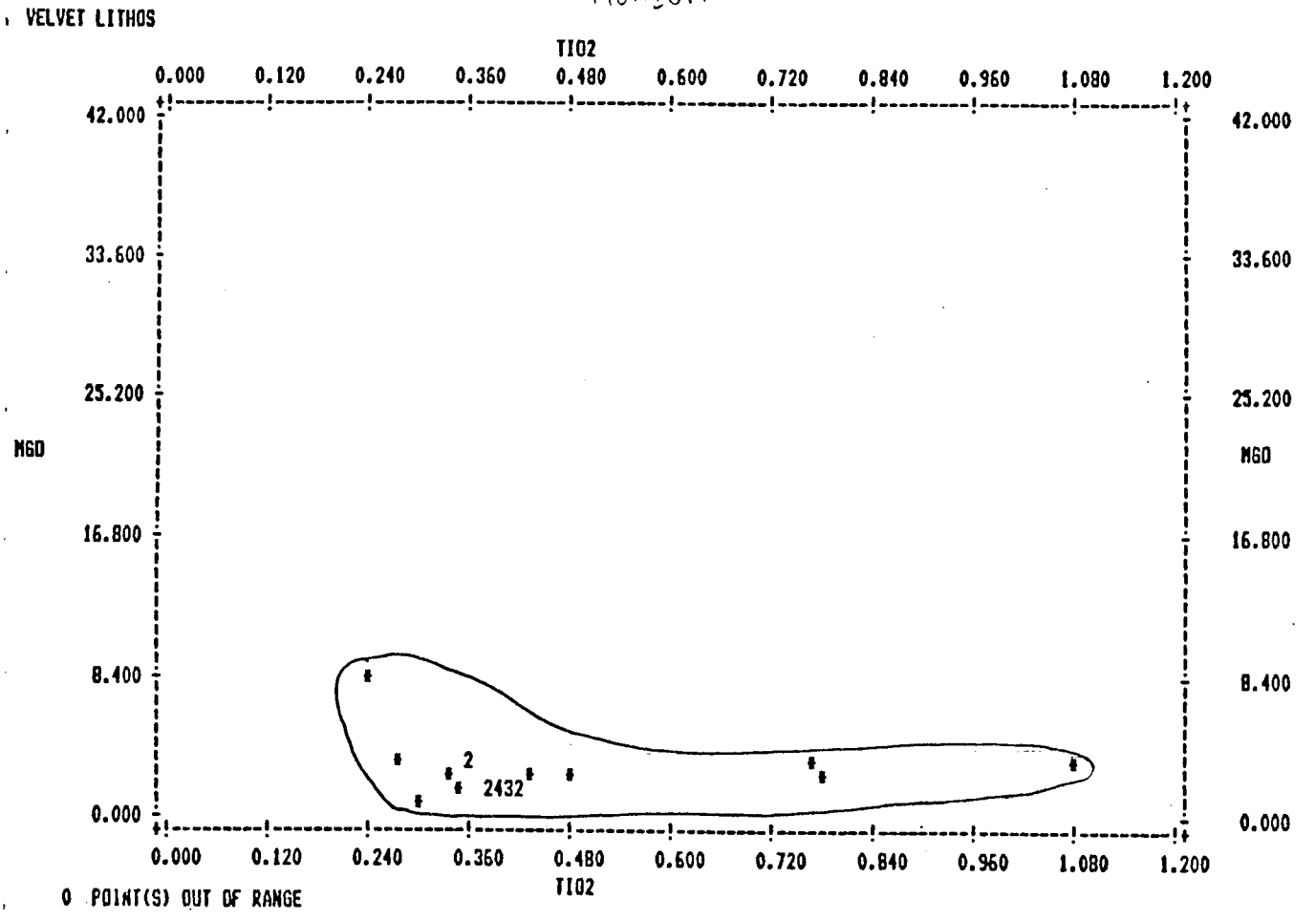
Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	K2O
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	0.76
MAXIMUM:	1.08	4.59
MEAN:	0.44	2.05
STANDARD ERROR OF MEAN:	0.04	0.21
STANDARD DEVIATION:	0.19	1.01
COEFFICIENT OF VARIATION:	42.15	49.23
SKEWNESS:	2.07	0.72
KURTOSIS:	3.82	-0.34

CORRELATION COEFFICIENT: 0.2595

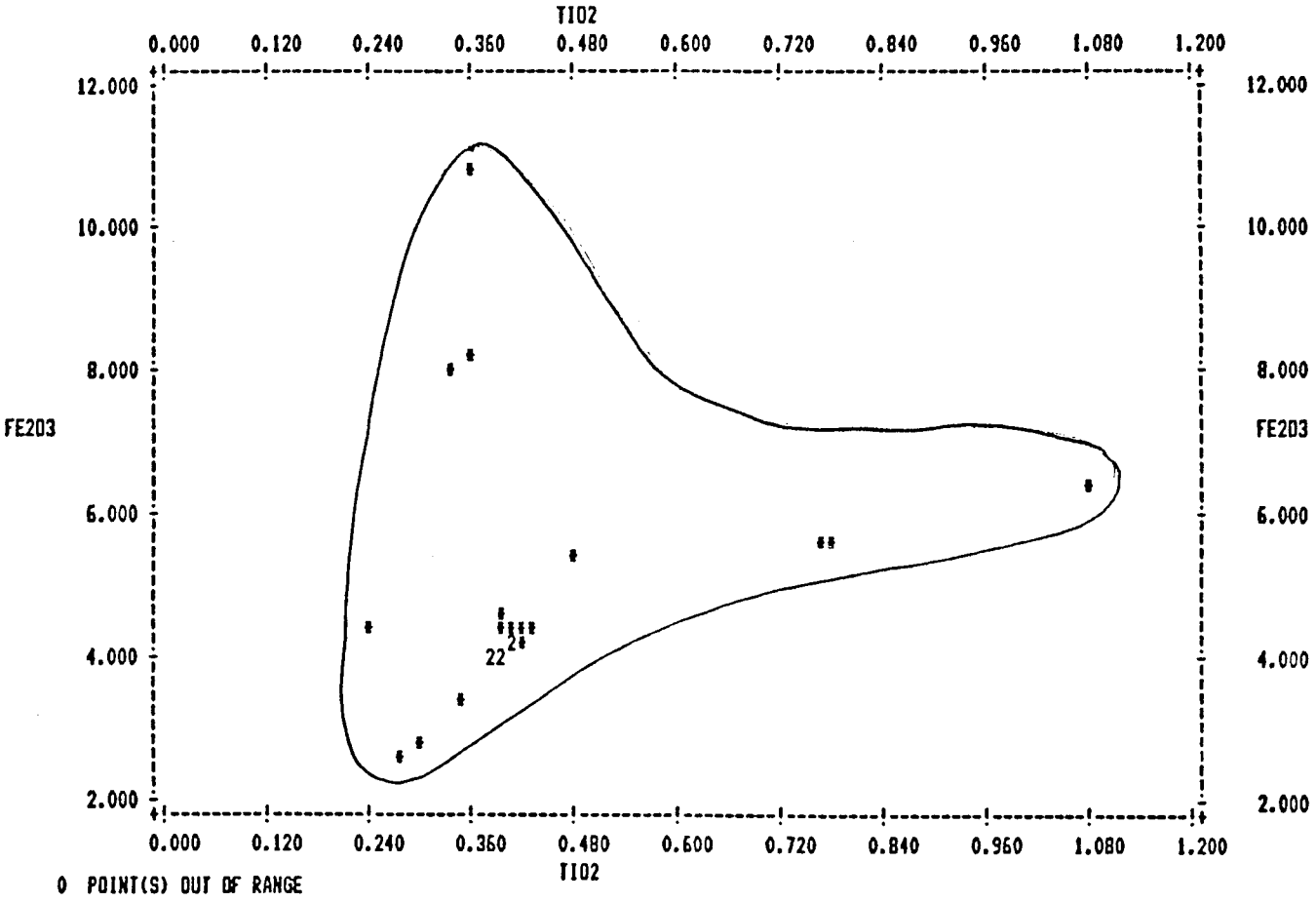
Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	MGO
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	1.09
MAXIMUM:	1.08	8.05
MEAN:	0.44	2.25
STANDARD ERROR OF MEAN:	0.04	0.30
STANDARD DEVIATION:	0.19	1.44
COEFFICIENT OF VARIATION:	42.15	63.93
EWNESS:	2.07	2.77
KURTOSIS:	3.82	8.48

CORRELATION COEFFICIENT: 0.0124

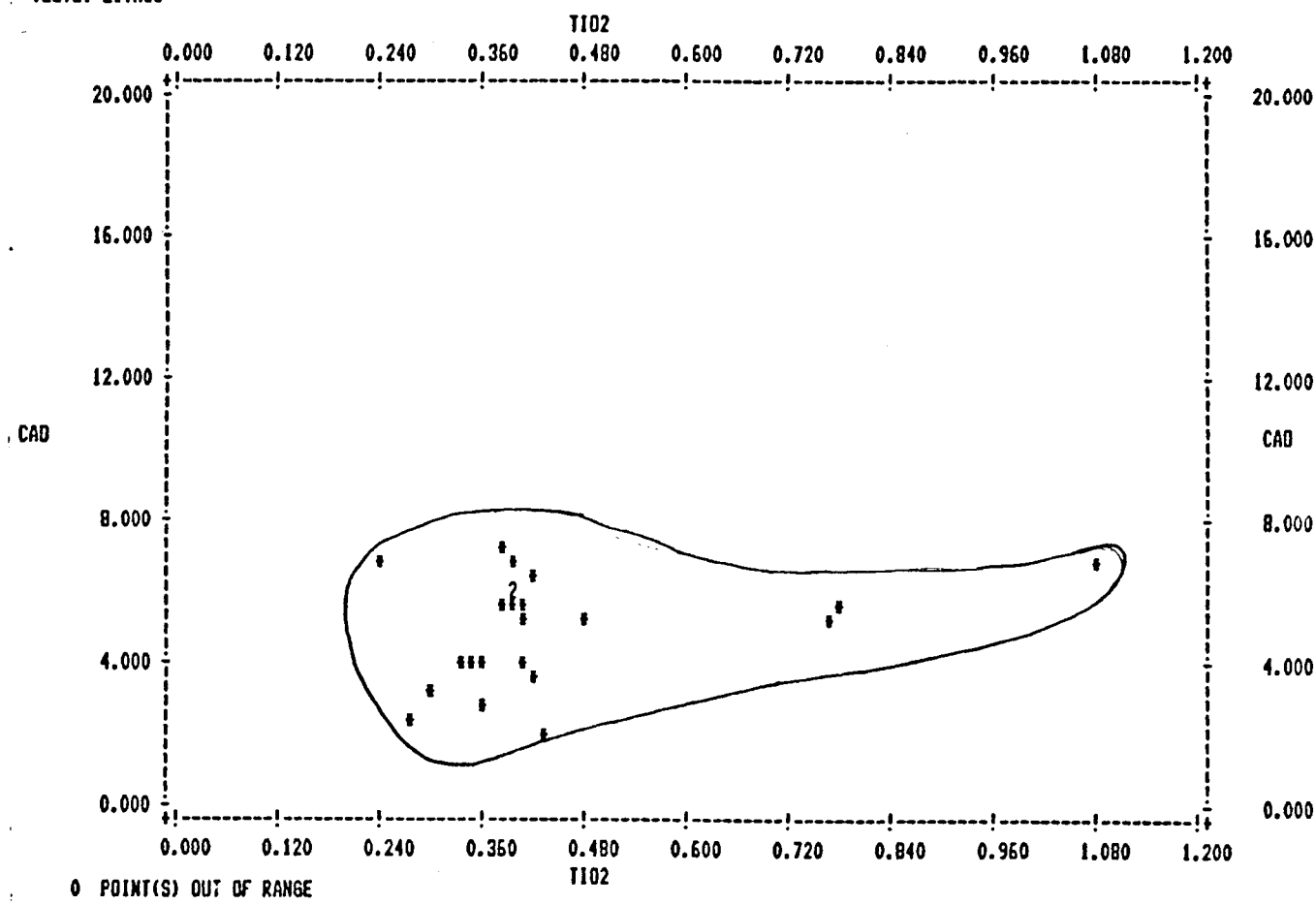
Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	FE2O3
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	2.53
MAXIMUM:	1.08	10.71
MEAN:	0.44	4.95
STANDARD ERROR OF MEAN:	0.04	0.39
STANDARD DEVIATION:	0.19	1.86
COEFFICIENT OF VARIATION:	42.15	37.52
SKEWNESS:	2.07	1.53
KURTOSIS:	3.82	2.01

CORRELATION COEFFICIENT: 0.2081

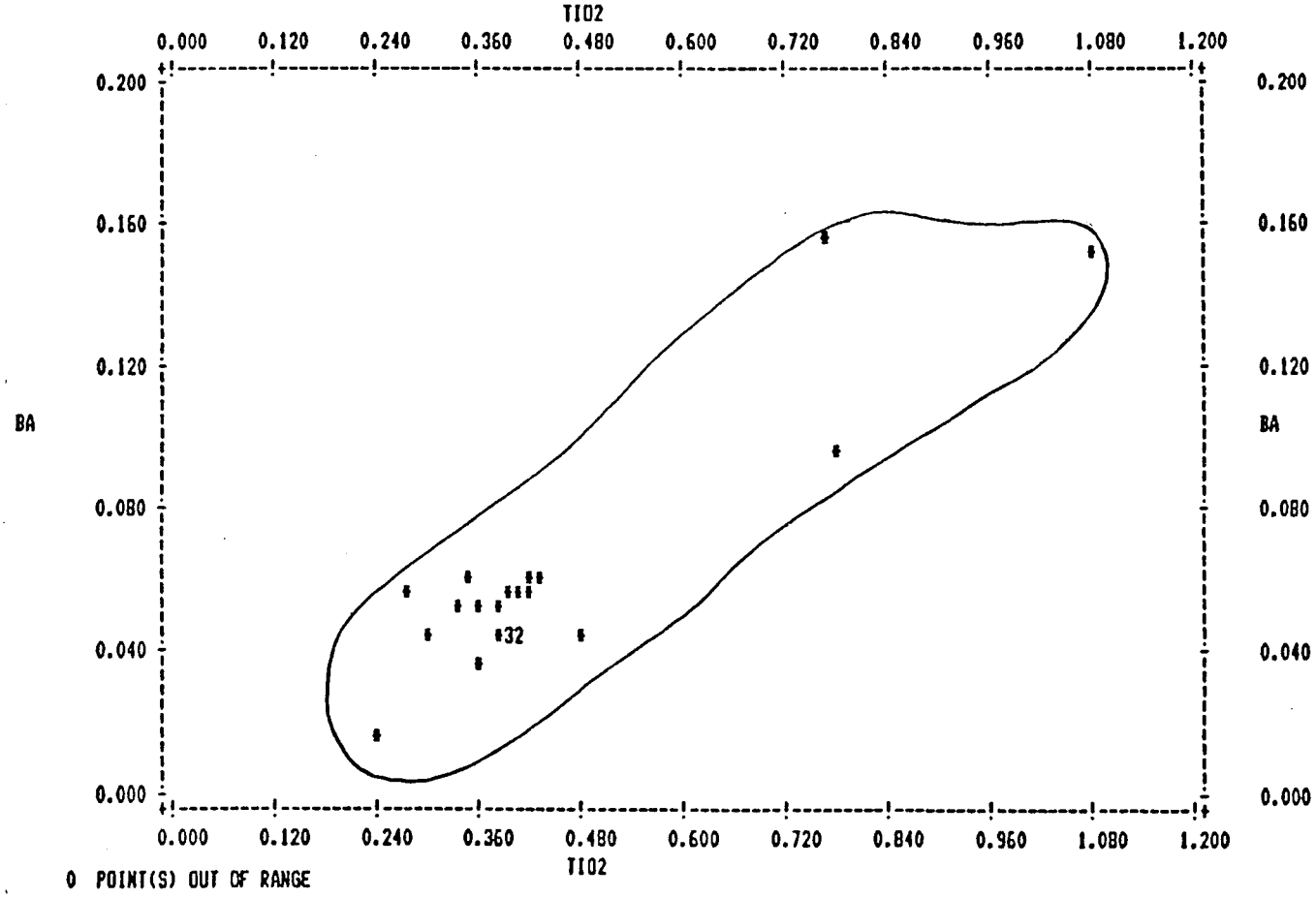
Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	CAO
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	1.92
MAXIMUM:	1.08	7.13
MEAN:	0.44	4.98
STANDARD ERROR OF MEAN:	0.04	0.32
STANDARD DEVIATION:	0.19	1.54
COEFFICIENT OF VARIATION:	42.15	30.96
SKEWNESS:	2.07	-0.41
JRTOSIS:	3.82	-1.08

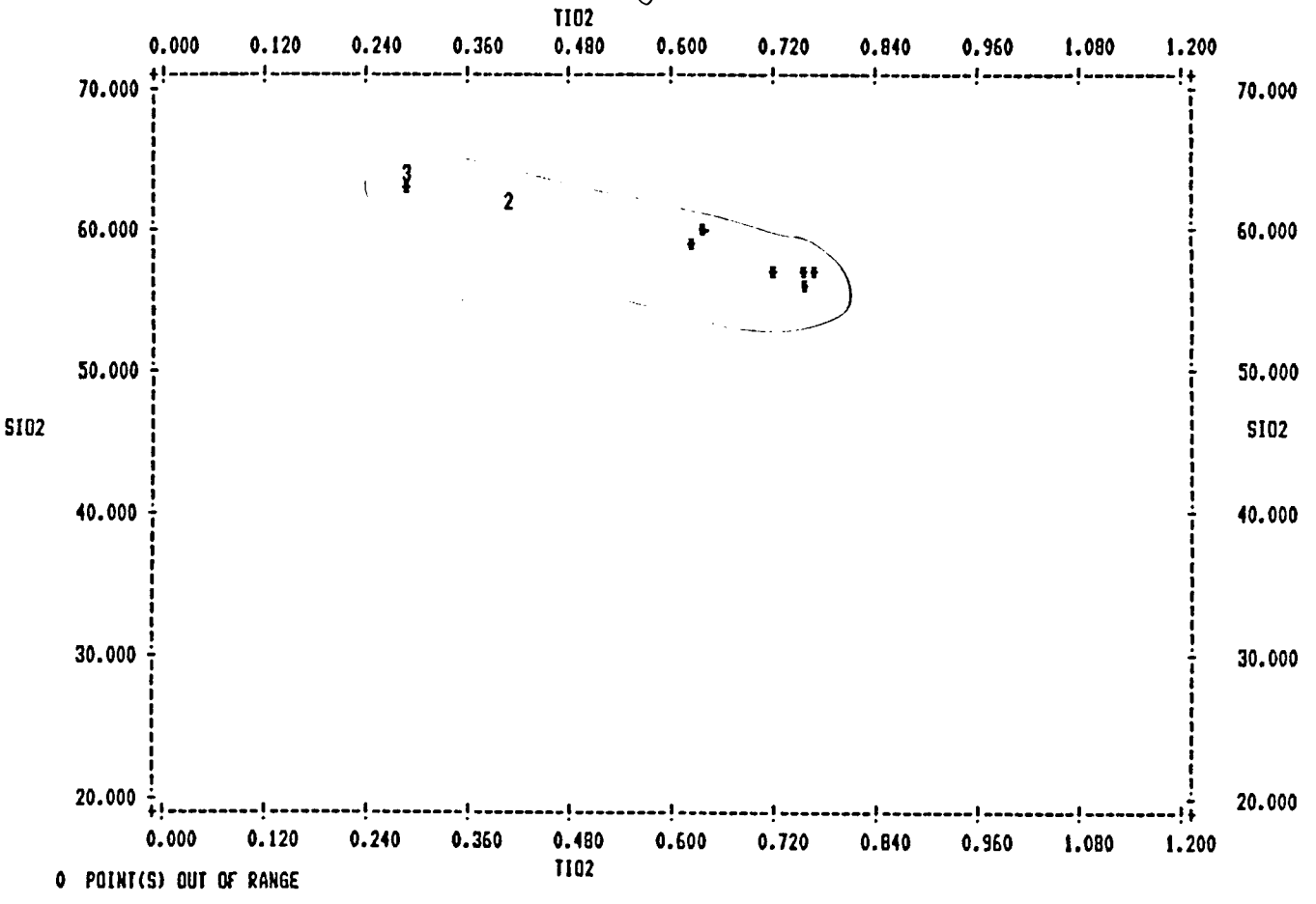
CORRELATION COEFFICIENT: 0.2971

Monzonite - Unit 3



STATISTICS FOR VARIABLES:	TIO2	BA
NUMBER OF OBSERVATIONS:	23	23
MINIMUM:	0.24	0.01
MAXIMUM:	1.08	0.16
MEAN:	0.44	0.06
STANDARD ERROR OF MEAN:	0.04	0.01
STANDARD DEVIATION:	0.19	0.03
COEFFICIENT OF VARIATION:	42.15	54.90
SKEWNESS:	2.07	1.97
KURTOSIS:	3.82	3.22
CORRELATION COEFFICIENT:	0.9039	

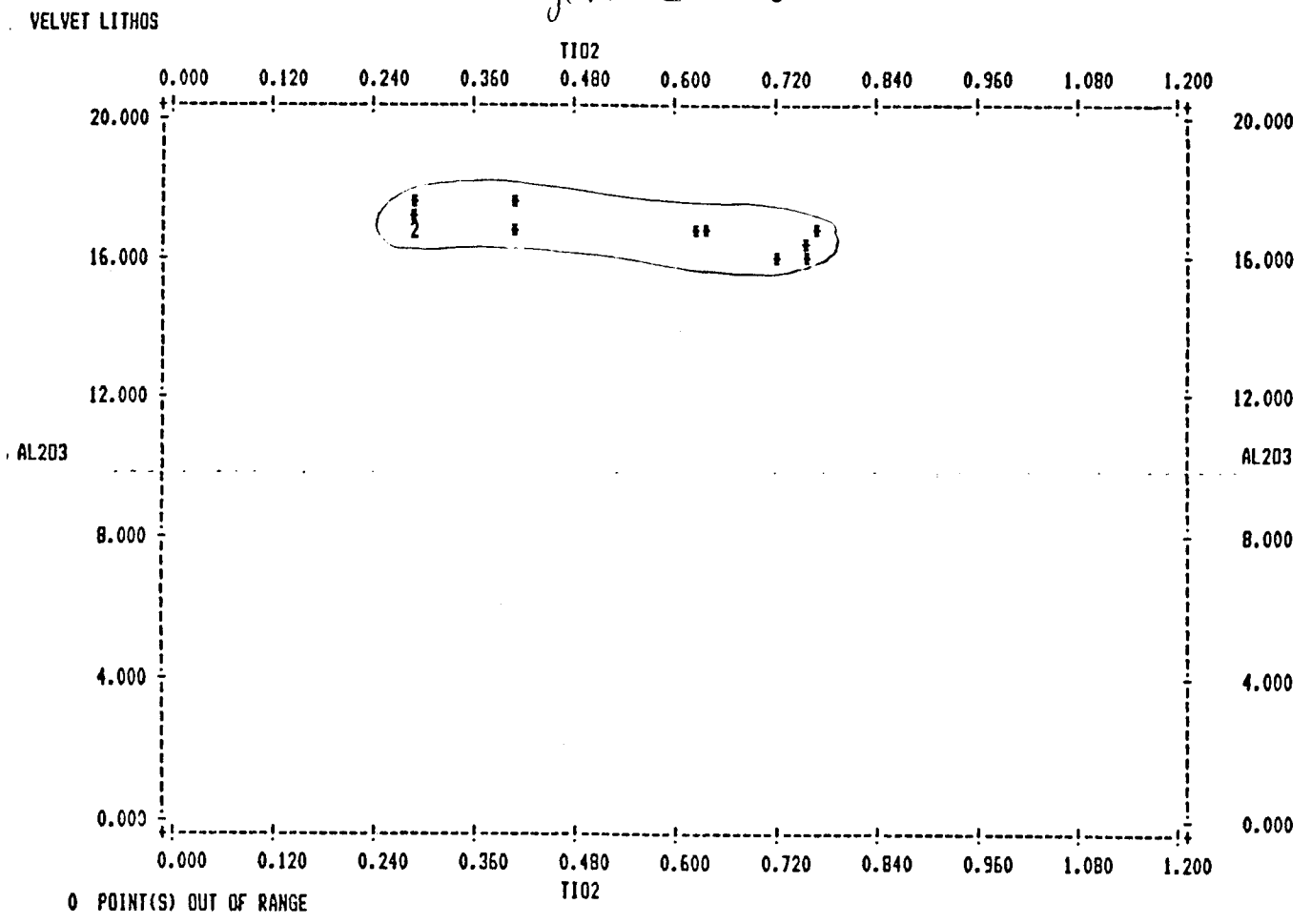
Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	SIO2
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	56.03
MAXIMUM:	0.77	64.03
MEAN:	0.52	60.31
STANDARD ERROR OF MEAN:	0.06	0.87
STANDARD DEVIATION:	0.21	3.01
COEFFICIENT OF VARIATION:	40.02	4.98
SKEWNESS:	0.01	-0.13
KURTOSIS:	-1.94	-1.81

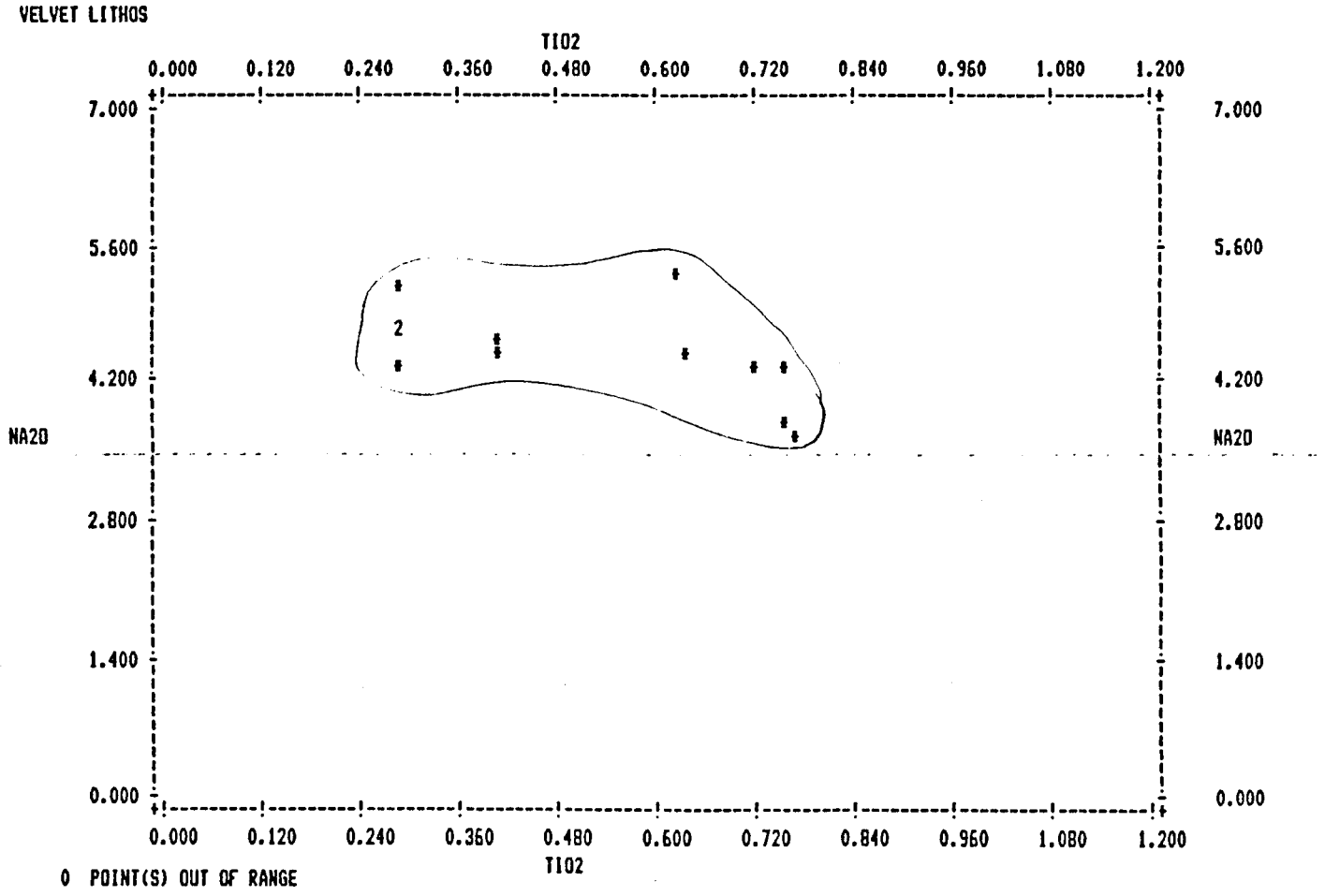
CORRELATION COEFFICIENT: -0.9713

Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	AL2O3
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	16.04
MAXIMUM:	0.77	17.66
MEAN:	0.52	16.81
STANDARD ERROR OF MEAN:	0.06	0.15
STANDARD DEVIATION:	0.21	0.51
COEFFICIENT OF VARIATION:	40.02	3.02
SKEWNESS:	0.01	0.13
KURTOSIS:	-1.94	-1.12
CORRELATION COEFFICIENT:	-0.7465	

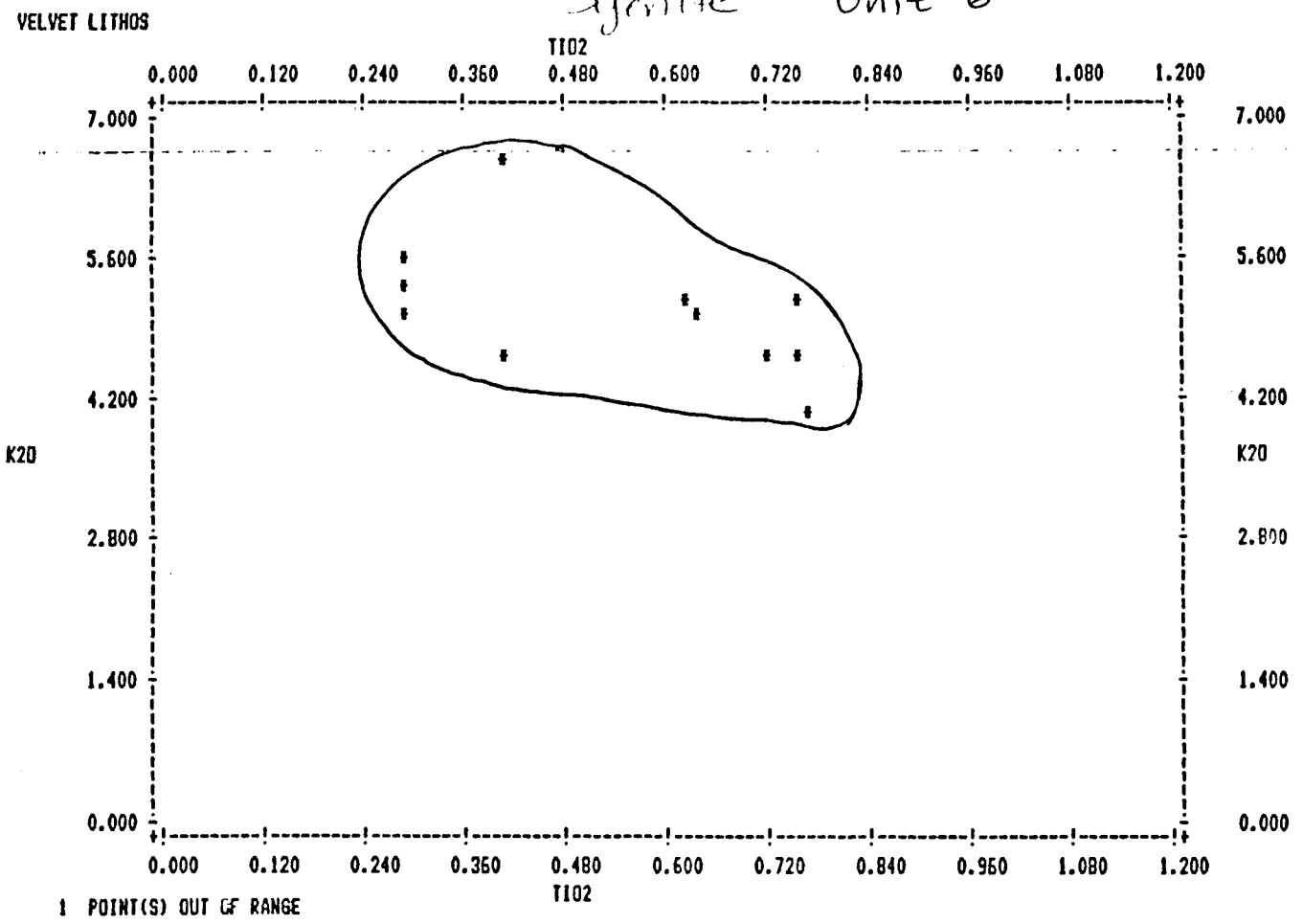
Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	NA2O
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	3.64
MAXIMUM:	0.77	5.36
MEAN:	0.52	4.50
STANDARD ERROR OF MEAN:	0.06	0.15
STANDARD DEVIATION:	0.21	0.50
COEFFICIENT OF VARIATION:	40.02	11.21
SKEWNESS:	0.01	0.06
KURTOSIS:	-1.94	-0.95

CORRELATION COEFFICIENT: -0.5595

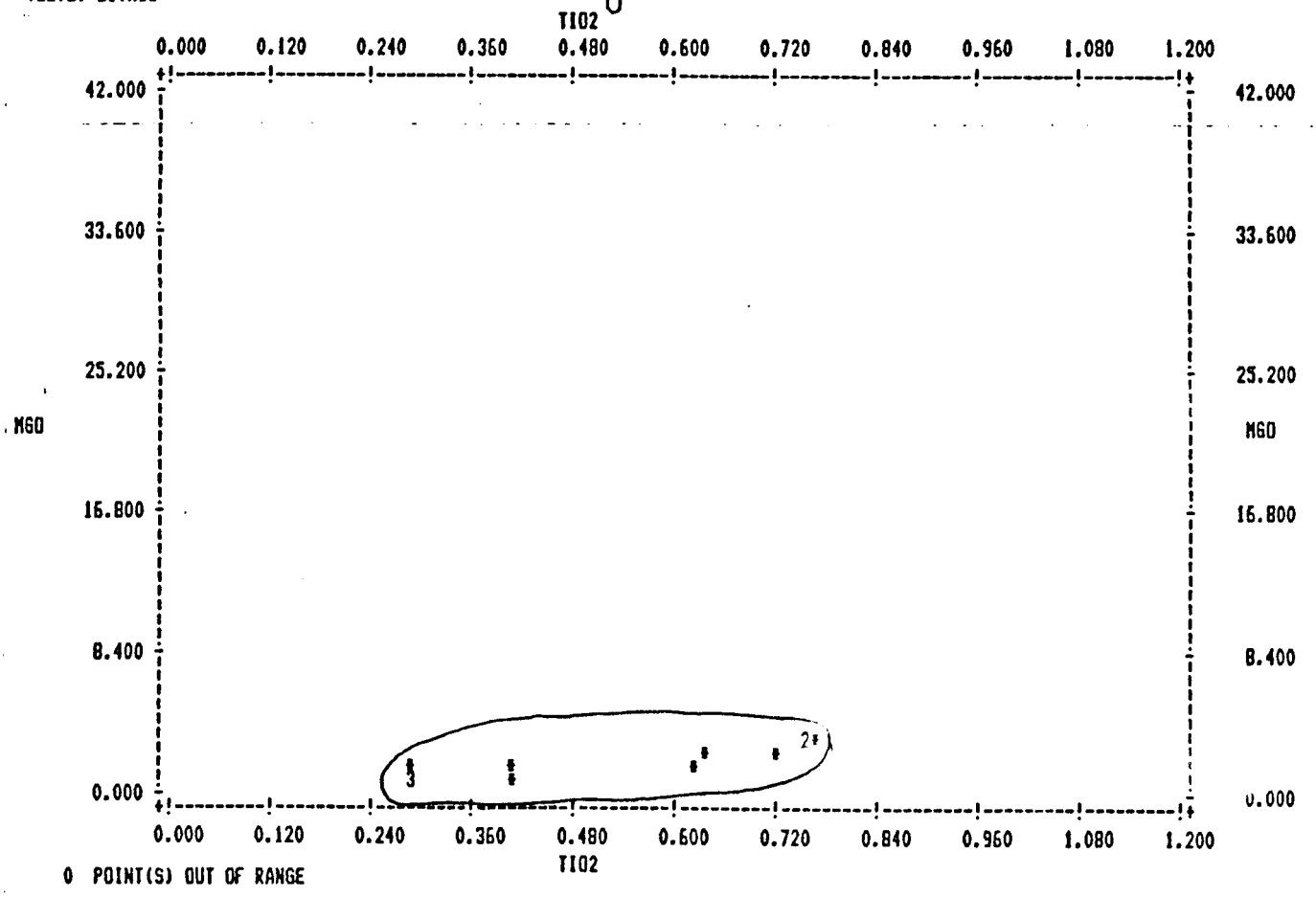
Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	K2O
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	4.07
MAXIMUM:	0.77	7.18
MEAN:	0.52	5.24
STANDARD ERROR OF MEAN:	0.06	0.25
STANDARD DEVIATION:	0.21	0.88
COEFFICIENT OF VARIATION:	40.02	16.77
SKEWNESS:	0.01	0.88
KURTOSIS:	-1.94	-0.26

CORRELATION COEFFICIENT: -0.6076

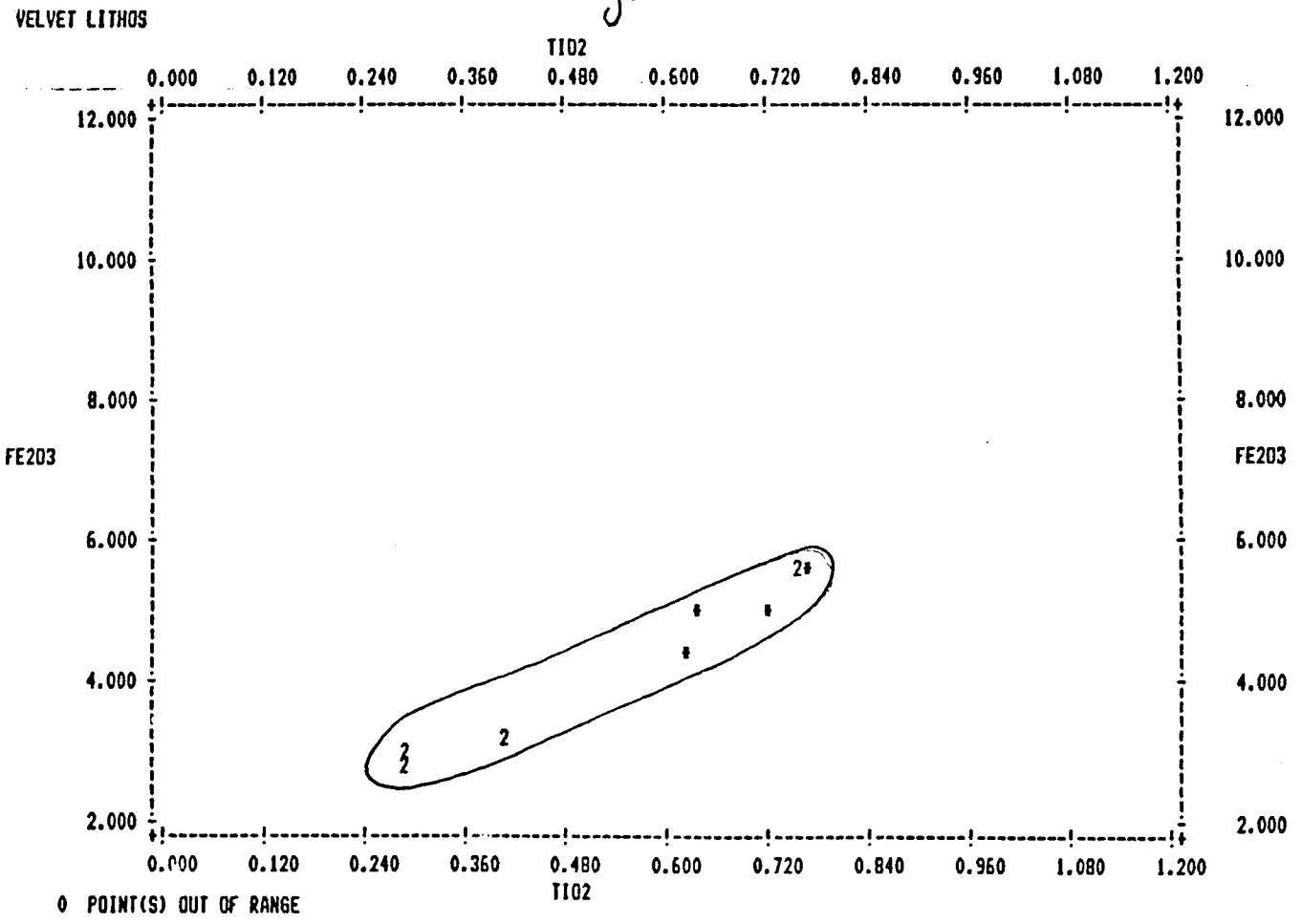
Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	MGO
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	0.53
MAXIMUM:	0.77	3.30
MEAN:	0.52	1.87
STANDARD ERROR OF MEAN:	0.06	0.30
STANDARD DEVIATION:	0.21	1.04
COEFFICIENT OF VARIATION:	40.02	55.53
SKEWNESS:	0.01	0.13
URTOSIS:	-1.94	-1.82

CORRELATION COEFFICIENT: 0.9561

Syenite - Unit 6

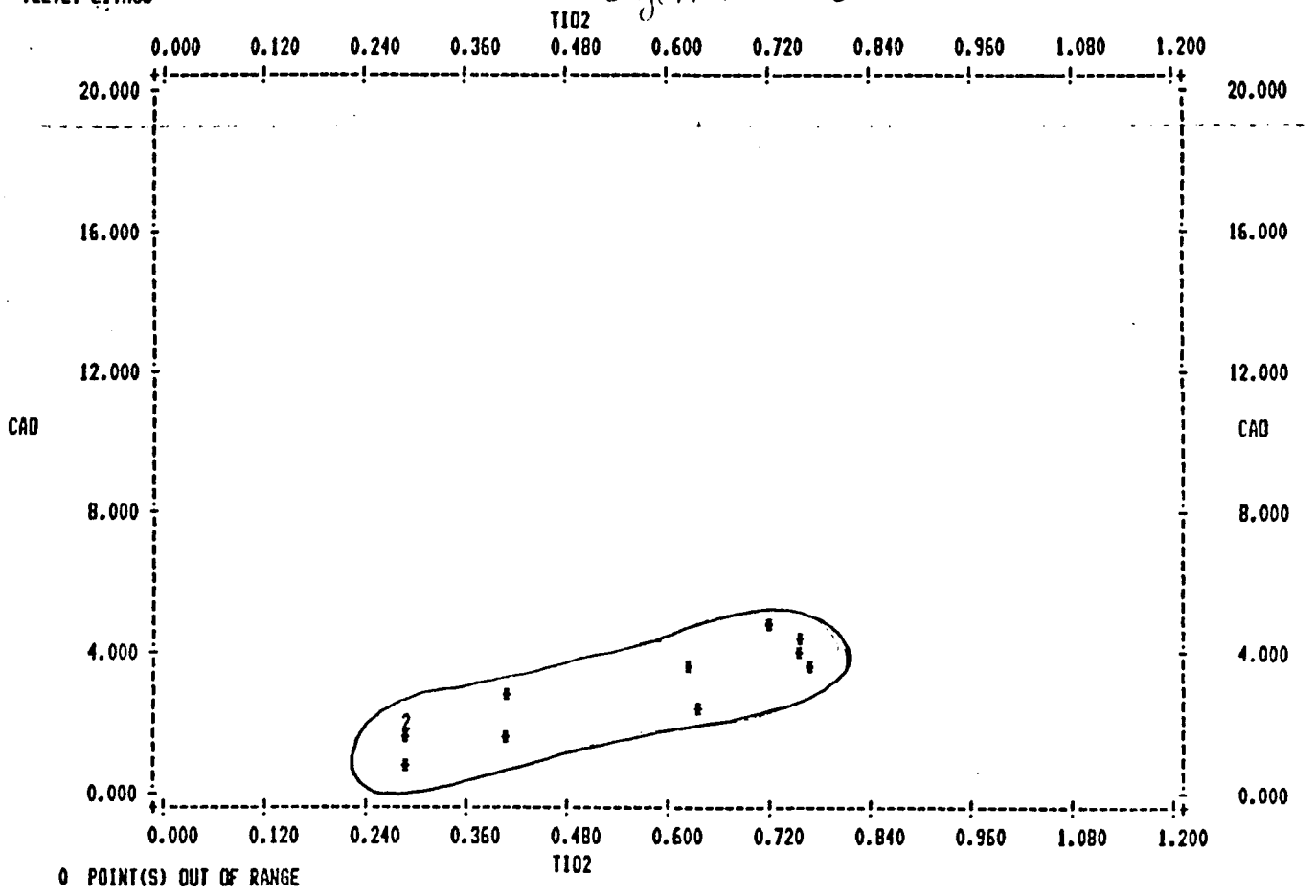


STATISTICS FOR VARIABLES:	TIO2	FE2O3
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	2.75
MAXIMUM:	0.77	5.65
MEAN:	0.52	4.11
STANDARD ERROR OF MEAN:	0.06	0.35
STANDARD DEVIATION:	0.21	1.21
COEFFICIENT OF VARIATION:	40.02	29.58
SKEWNESS:	0.01	0.10
KURTOSIS:	-1.94	-1.96

CORRELATION COEFFICIENT: 0.9917

VELVET LITHOS

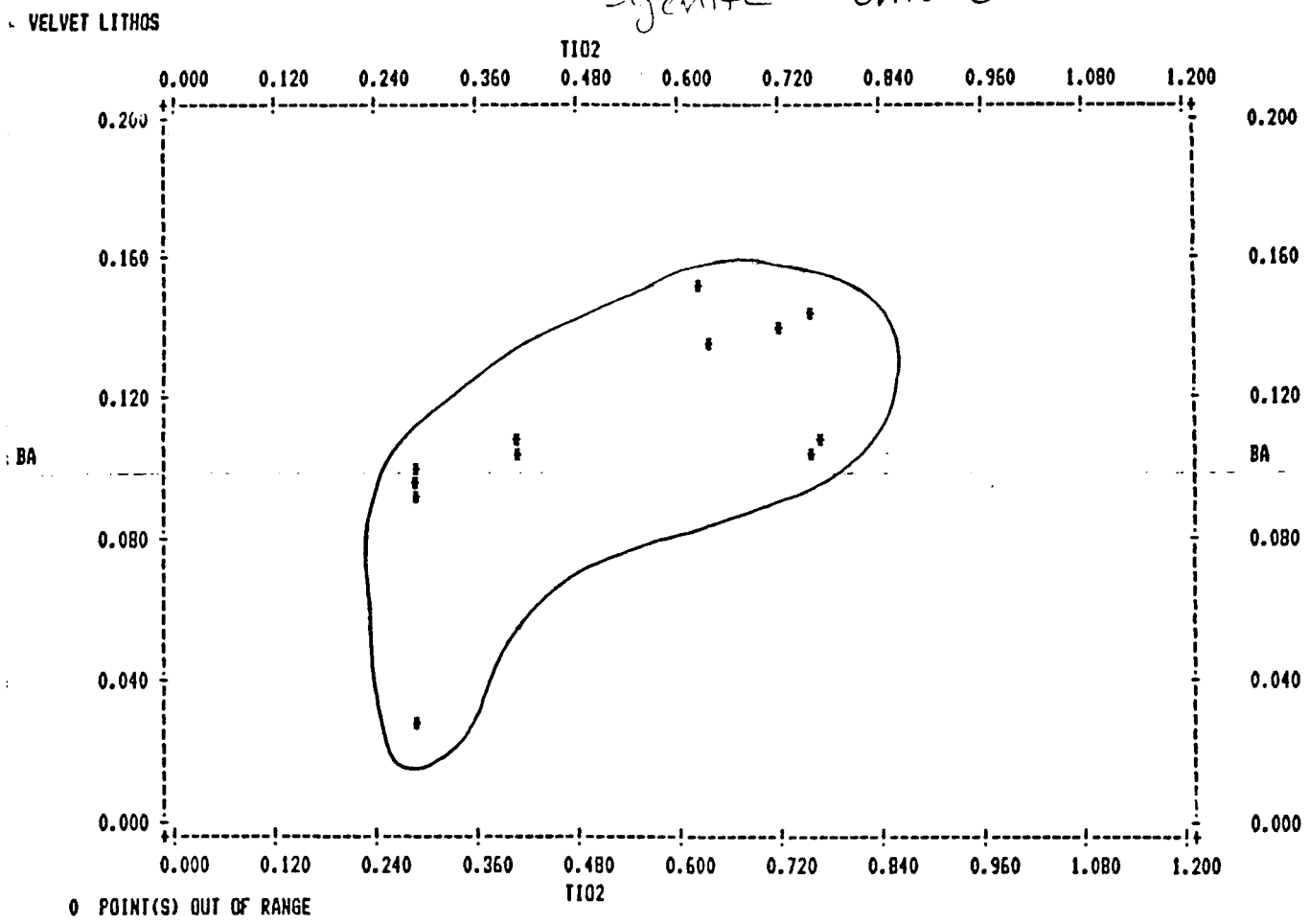
Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	CAO
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	0.82
MAXIMUM:	0.77	4.77
MEAN:	0.52	2.86
STANDARD ERROR OF MEAN:	0.06	0.36
STANDARD DEVIATION:	0.21	1.24
COEFFICIENT OF VARIATION:	40.02	43.32
SKEWNESS:	0.01	0.04
KURTOSIS:	-1.94	-1.47

CORRELATION COEFFICIENT: 0.8824

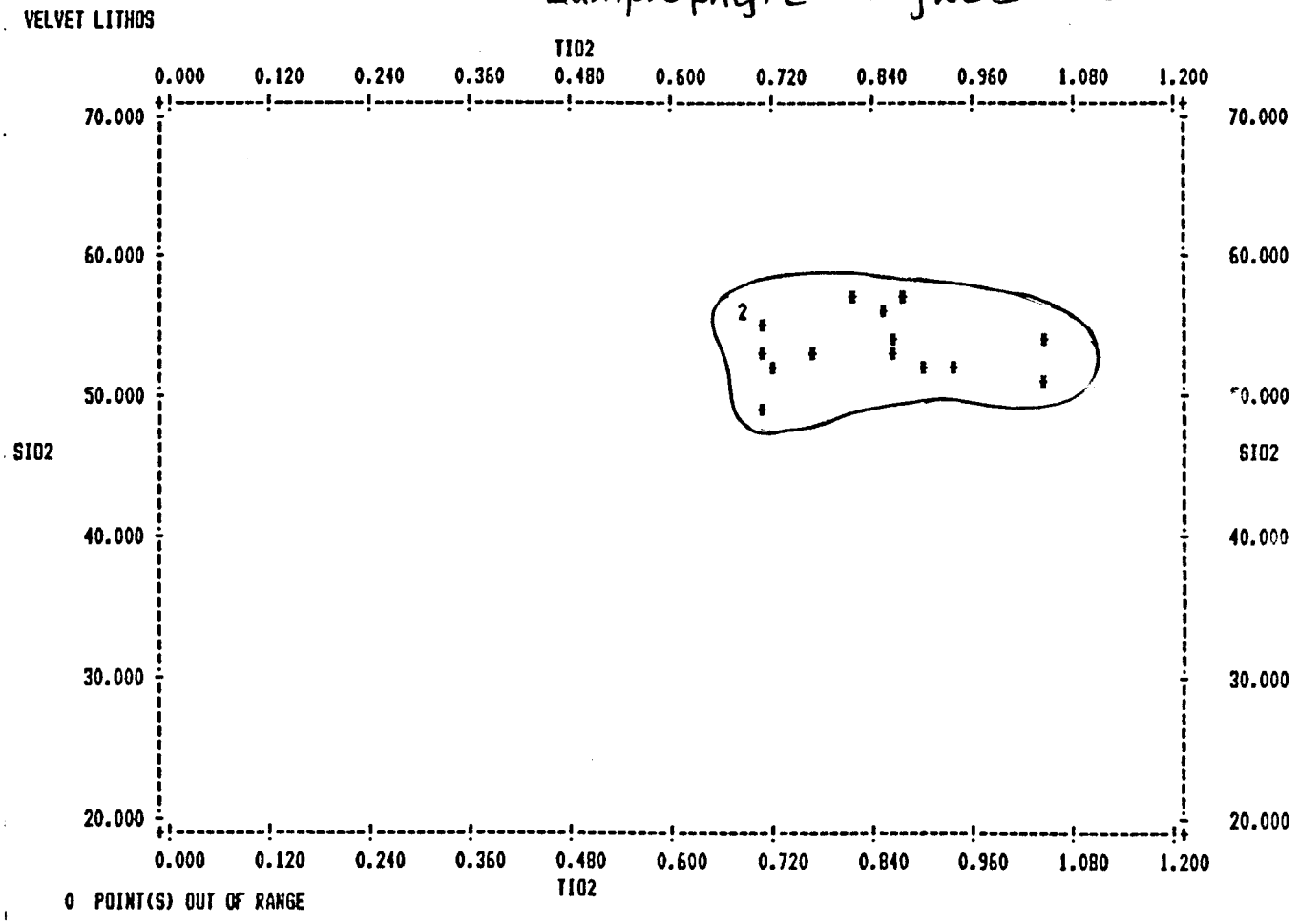
Syenite - Unit 6



STATISTICS FOR VARIABLES:	TIO2	BA
NUMBER OF OBSERVATIONS:	12	12
MINIMUM:	0.29	0.03
MAXIMUM:	0.77	0.15
MEAN:	0.52	0.11
STANDARD ERROR OF MEAN:	0.06	0.01
STANDARD DEVIATION:	0.21	0.03
COEFFICIENT OF VARIATION:	40.02	29.67
SKEWNESS:	0.01	-0.87
KURTOSIS:	-1.94	0.43

CORRELATION COEFFICIENT: 0.6673

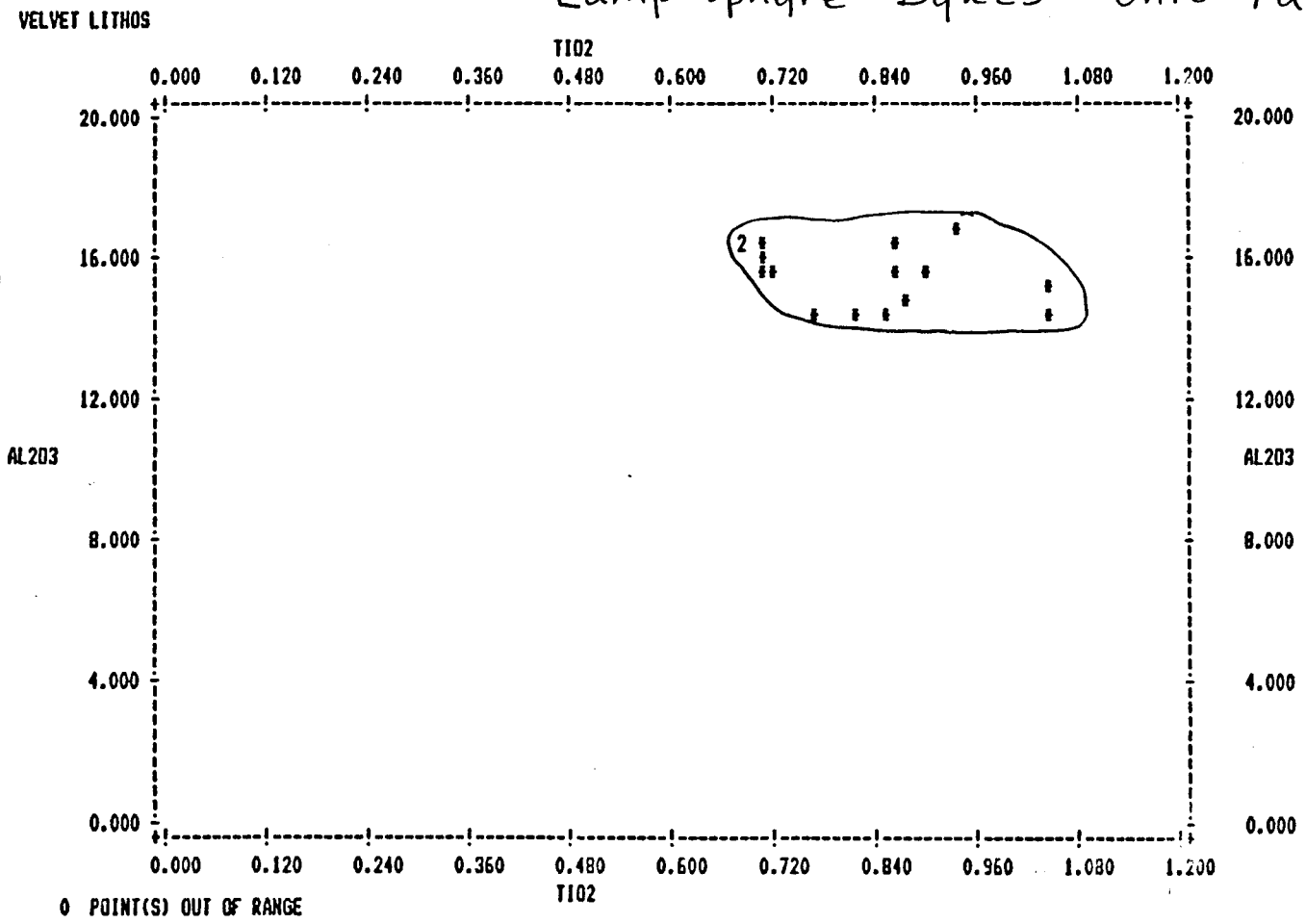
Lamprophyre Dykes - Unit 7



STATISTICS FOR VARIABLES:	TIO2	SIO2
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	49.37
MAXIMUM:	1.05	57.11
MEAN:	0.83	53.74
STANDARD ERROR OF MEAN:	0.03	0.57
STANDARD DEVIATION:	0.12	2.28
COEFFICIENT OF VARIATION:	14.55	4.24
SKEWNESS:	0.43	-0.14
KURTOSIS:	-1.10	-1.11

CORRELATION COEFFICIENT: -0.2027

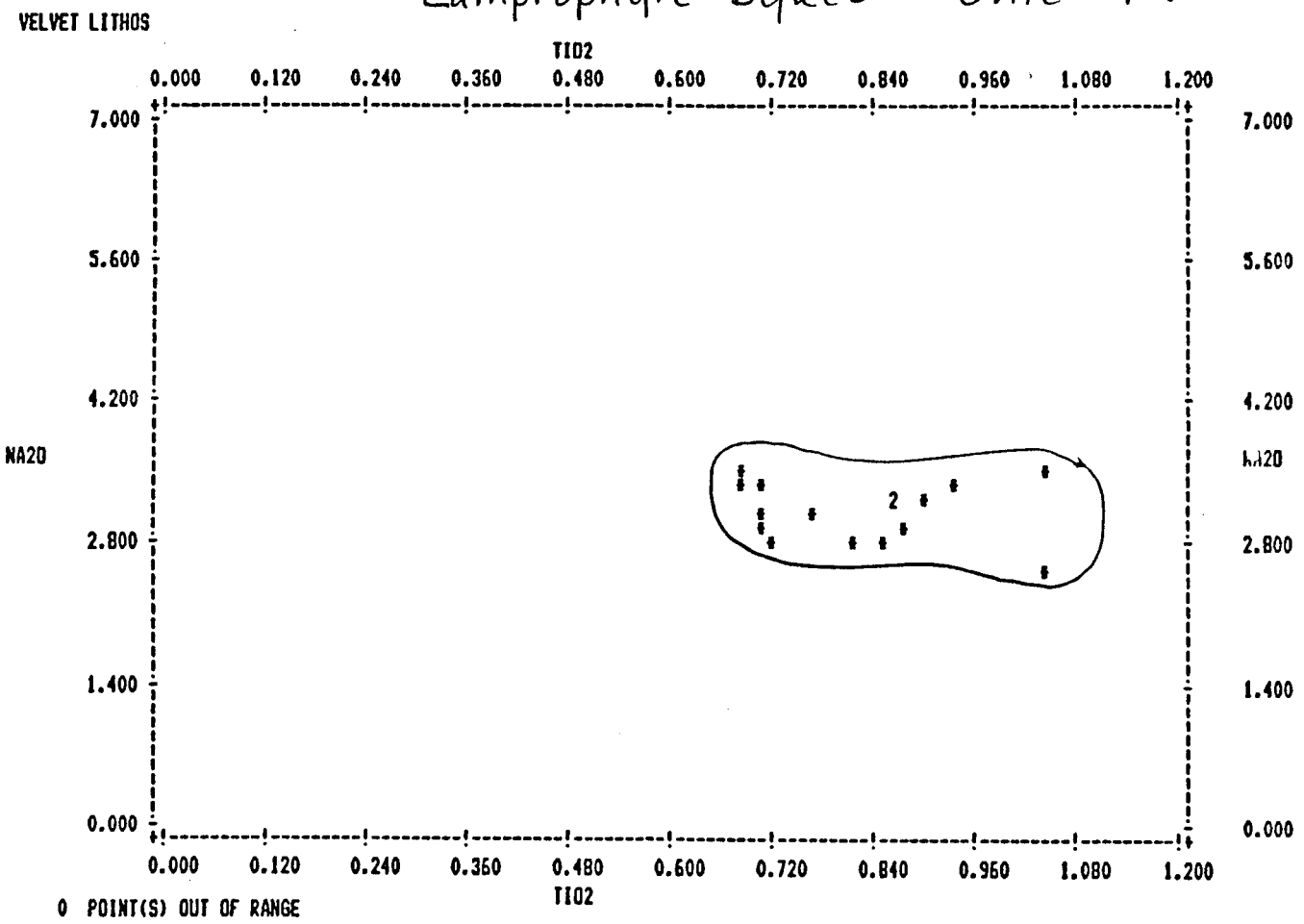
Lamprophyre Dykes- Unit 7a



STATISTICS FOR VARIABLES:	TIO2	AL2O3
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	14.38
MAXIMUM:	1.05	16.63
MEAN:	0.83	15.56
STANDARD ERROR OF MEAN:	0.03	0.20
STANDARD DEVIATION:	0.12	0.80
COEFFICIENT OF VARIATION:	14.55	5.13
SKEWNESS:	0.43	-0.19
KURTOSIS:	-1.10	-1.58

CORRELATION COEFFICIENT: -0.3905

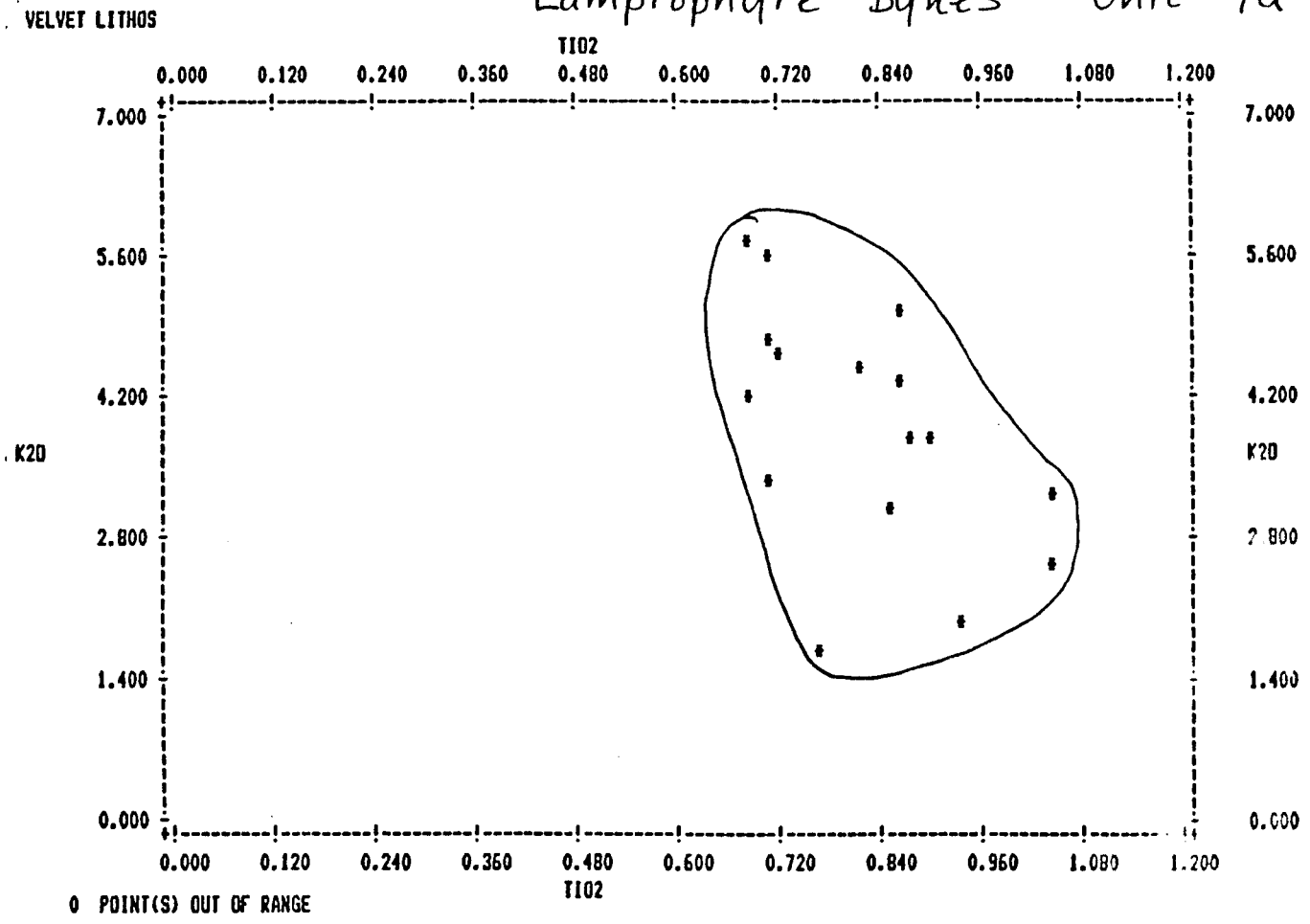
Lamprophyre Dykes - Unit 7a



STATISTICS FOR VARIABLES:	TIO2	NA2O
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	2.45
MAXIMUM:	1.05	3.48
MEAN:	0.83	3.10
STANDARD ERROR OF MEAN:	0.03	0.07
STANDARD DEVIATION:	0.12	0.29
COEFFICIENT OF VARIATION:	14.55	9.23
SKEWNESS:	0.43	-0.48
KURTOSIS:	-1.10	-0.63

CORRELATION COEFFICIENT: -0.1973

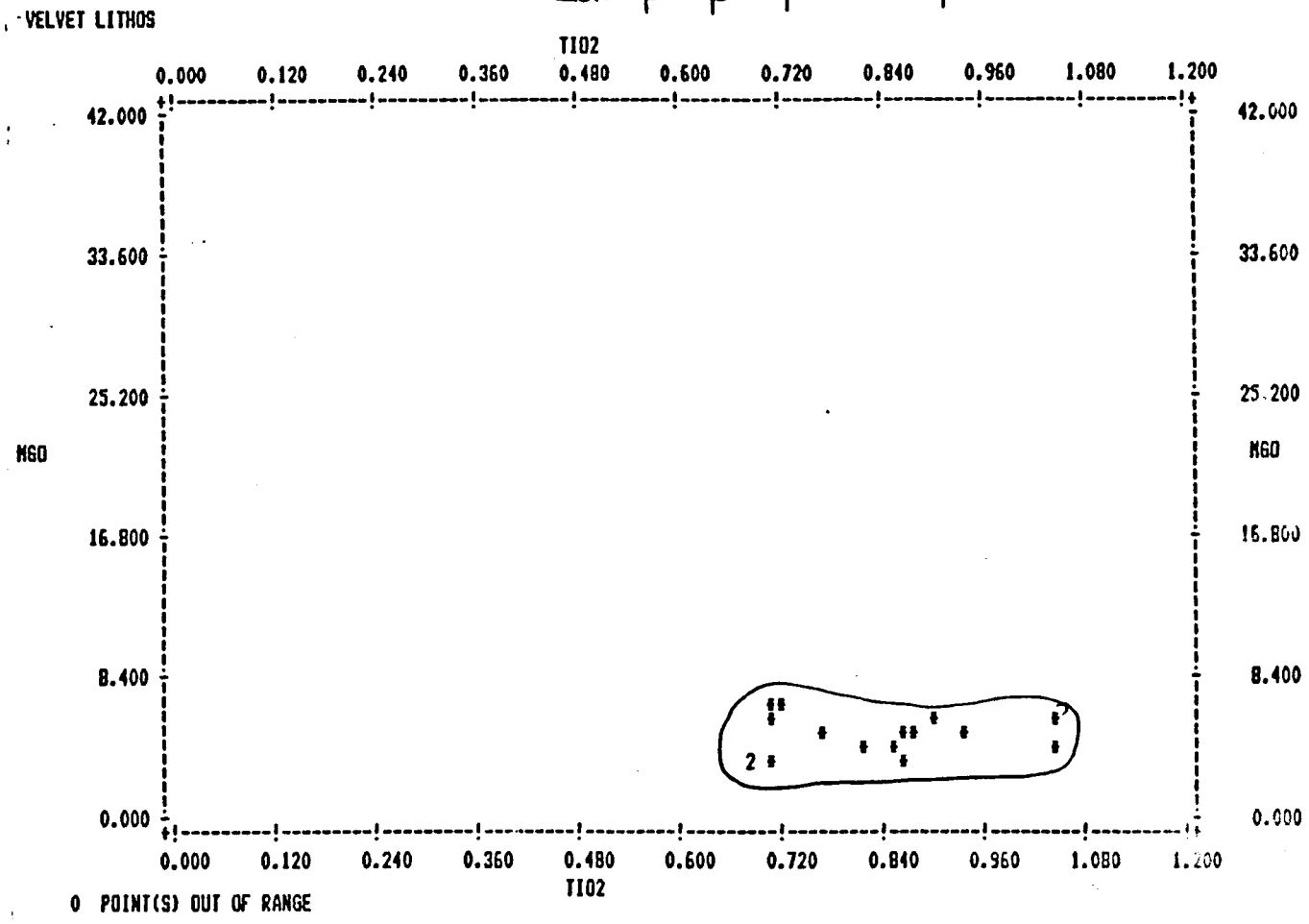
Lamprophyre Dykes - Unit 7a



STATISTICS FOR VARIABLES:	TIO2	K2O
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	1.62
MAXIMUM:	1.05	5.77
MEAN:	0.83	3.87
STANDARD ERROR OF MEAN:	0.03	0.30
STANDARD DEVIATION:	0.12	1.21
COEFFICIENT OF VARIATION:	14.55	31.30
SKEWNESS:	0.43	-0.28
KURTOSIS:	-1.10	-1.01

CORRELATION COEFFICIENT: -0.5142

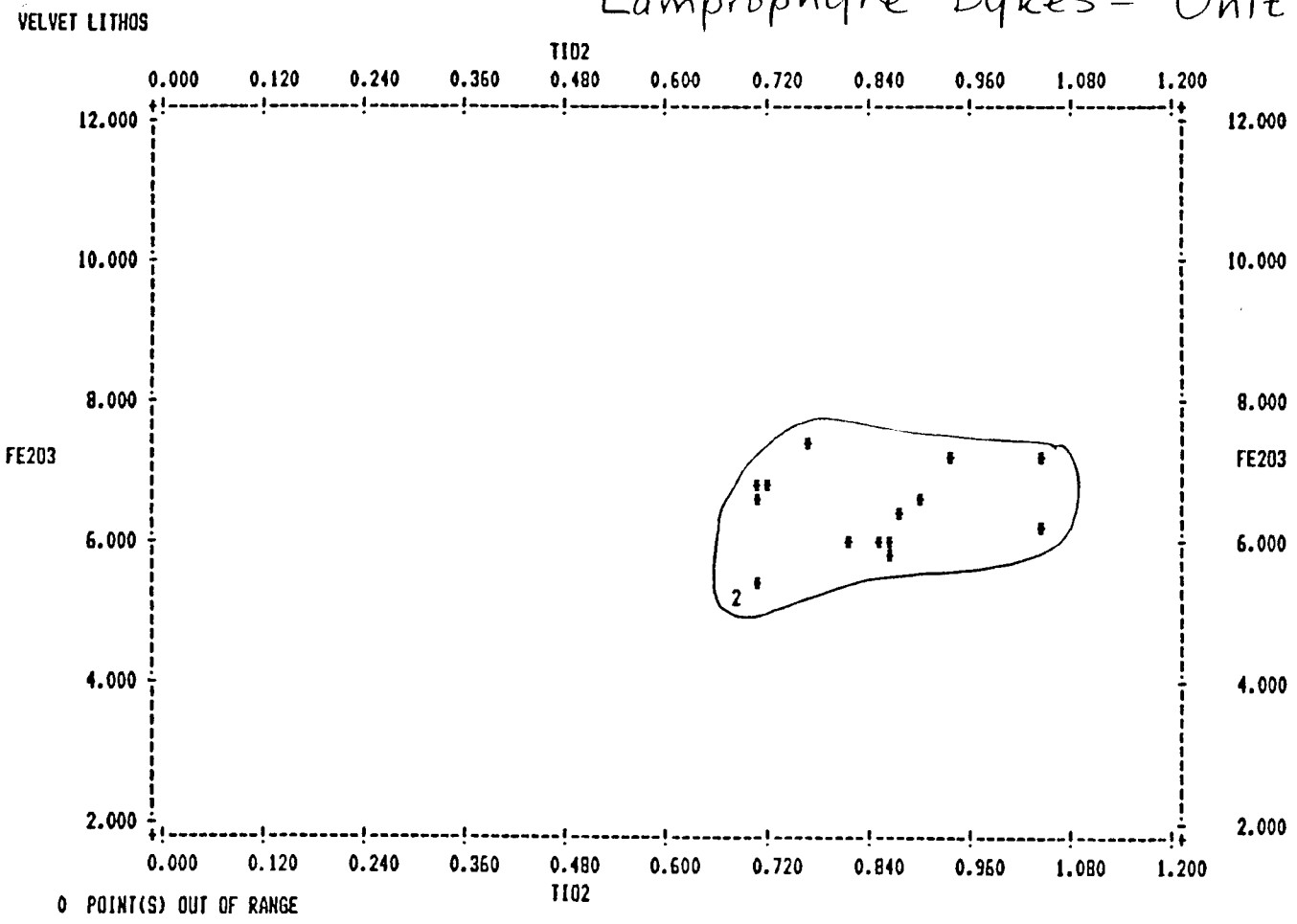
Lamprophyre Dykes - Unit 7a



STATISTICS FOR VARIABLES:	TIO2	MGO
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	3.19
MAXIMUM:	1.05	6.49
MEAN:	0.83	4.73
STANDARD ERROR OF MEAN:	0.03	0.28
STANDARD DEVIATION:	0.12	1.10
COEFFICIENT OF VARIATION:	14.55	23.33
SKEWNESS:	0.43	0.11
KURTOSIS:	-1.10	-1.46

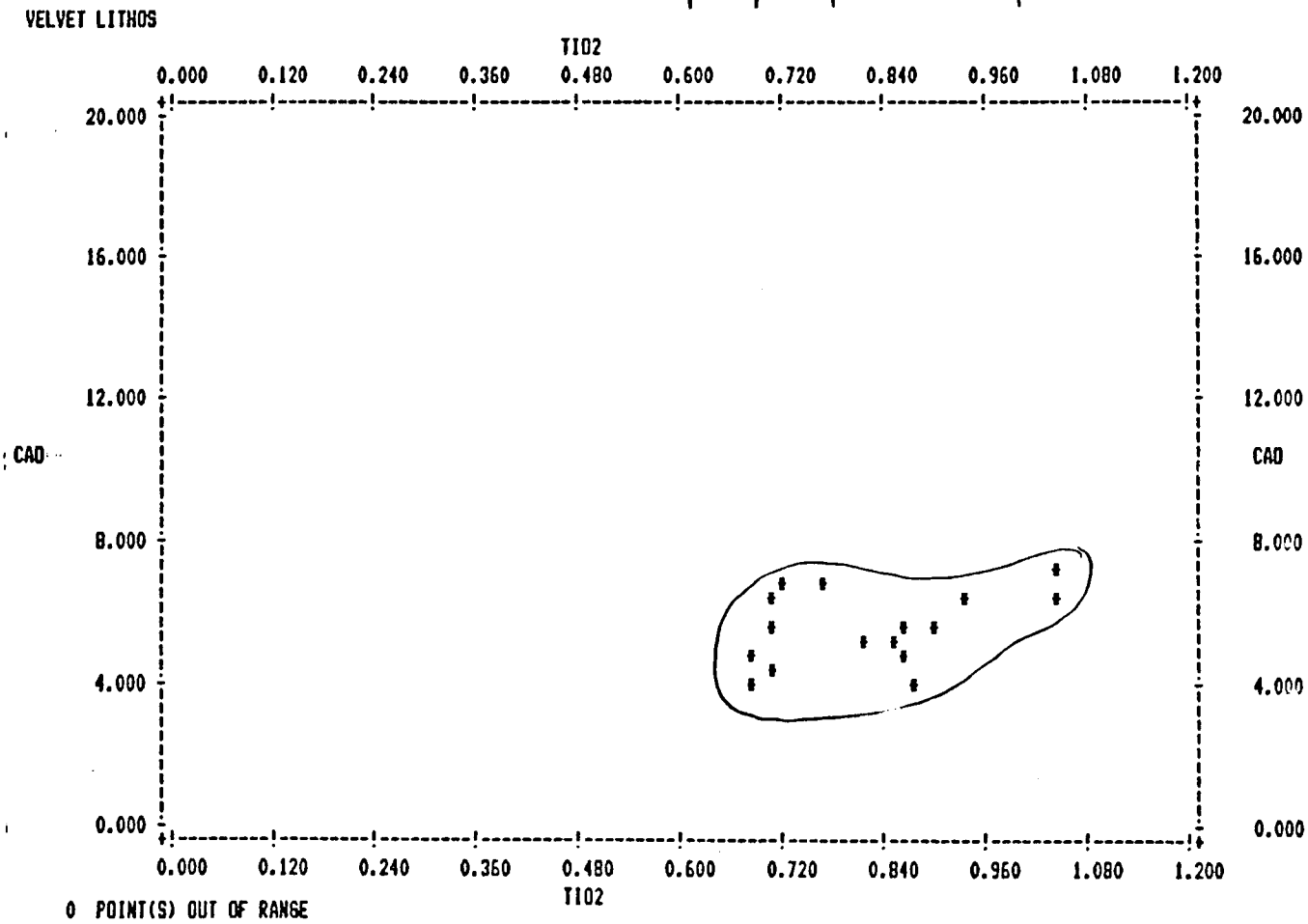
CORRELATION COEFFICIENT: 0.1230

Lamprophyre Dykes - Unit 7a



STATISTICS FOR VARIABLES:	TIO2	FE2O3
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	5.18
MAXIMUM:	1.05	7.49
MEAN:	0.83	6.32
STANDARD ERROR OF MEAN:	0.03	0.18
STANDARD DEVIATION:	0.12	0.72
COEFFICIENT OF VARIATION:	14.55	11.43
SKEWNESS:	0.43	-0.04
KURTOSIS:	-1.10	-1.30
CORRELATION COEFFICIENT:	0.3480	

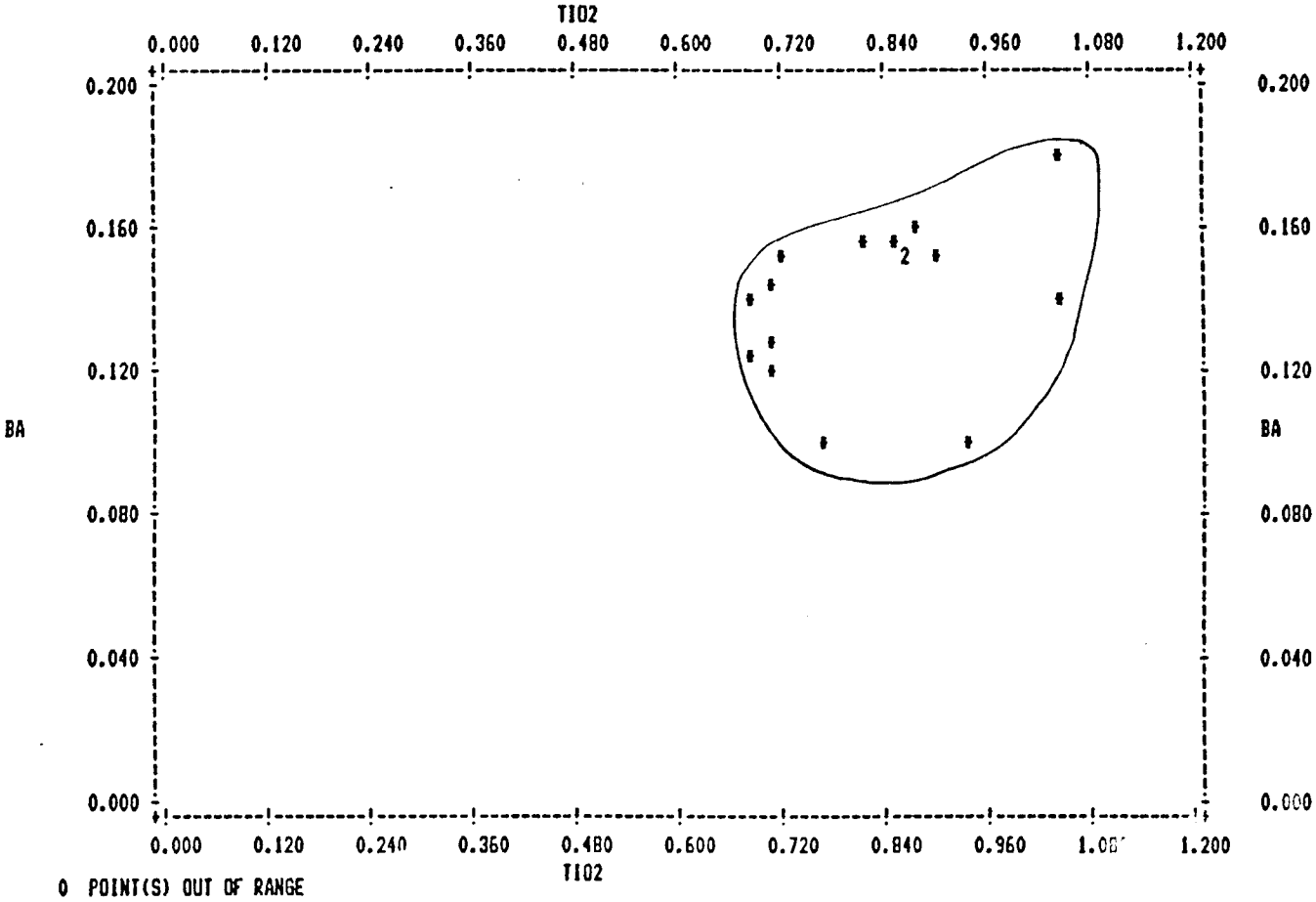
Lamprophyre Dykes - Unit 7a



STATISTICS FOR VARIABLES:	TIO2	CAO
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	3.98
MAXIMUM:	1.05	7.04
MEAN:	0.83	5.57
STANDARD ERROR OF MEAN:	0.03	0.24
STANDARD DEVIATION:	0.12	0.95
COEFFICIENT OF VARIATION:	14.55	17.14
SKEWNESS:	0.43	-0.06
KURTOSIS:	-1.10	-1.38

CORRELATION COEFFICIENT: 0.3759

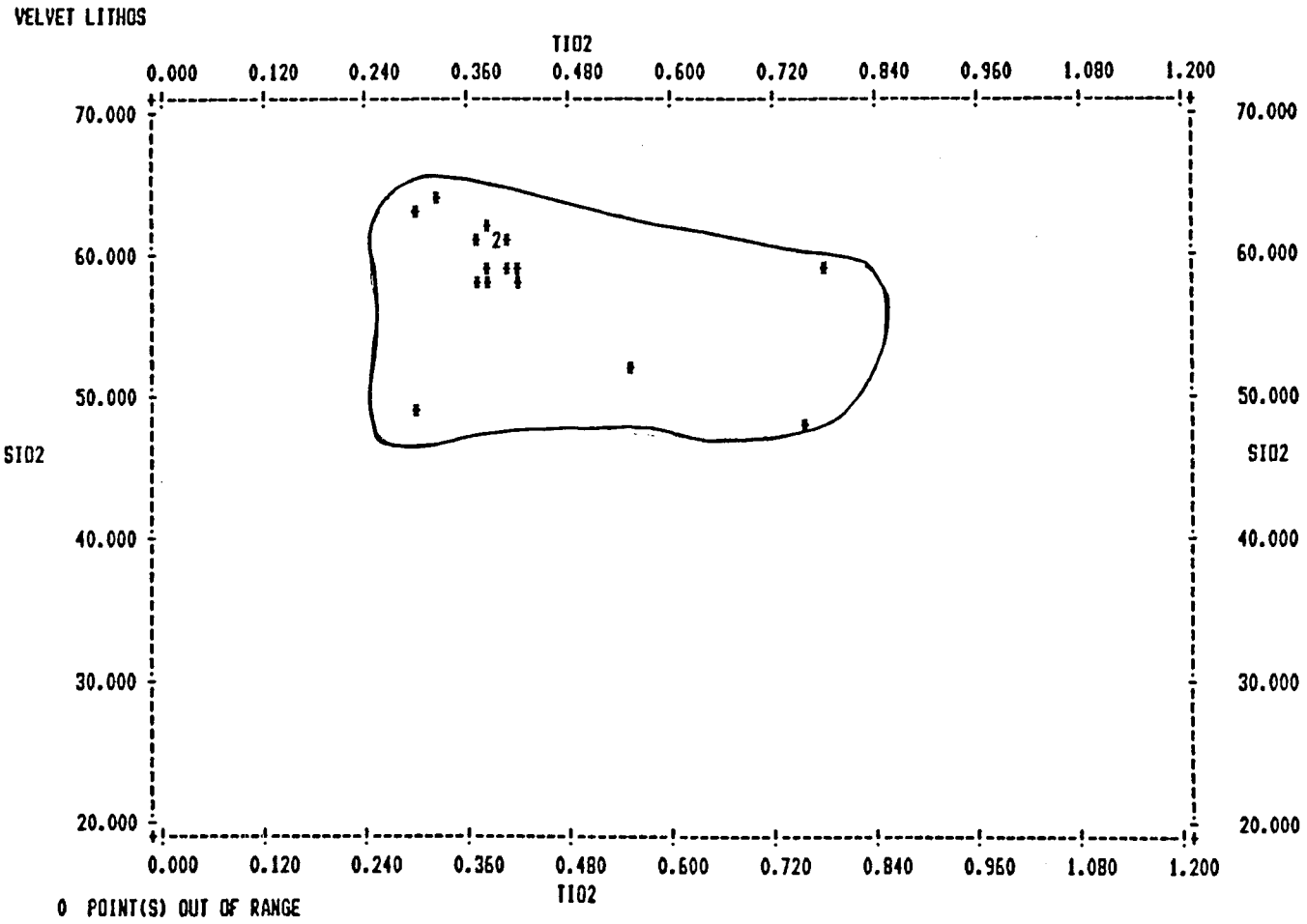
Lamprophyre Dykes - Unit 7a



STATISTICS FOR VARIABLES:	TIO2	BA
NUMBER OF OBSERVATIONS:	16	16
MINIMUM:	0.68	0.10
MAXIMUM:	1.05	0.18
MEAN:	0.83	0.14
STANDARD ERROR OF MEAN:	0.03	0.01
STANDARD DEVIATION:	0.12	0.02
COEFFICIENT OF VARIATION:	14.55	15.13
SKEWNESS:	0.43	-0.46
KURTOSIS:	-1.10	-0.45

CORRELATION COEFFICIENT: 0.3519

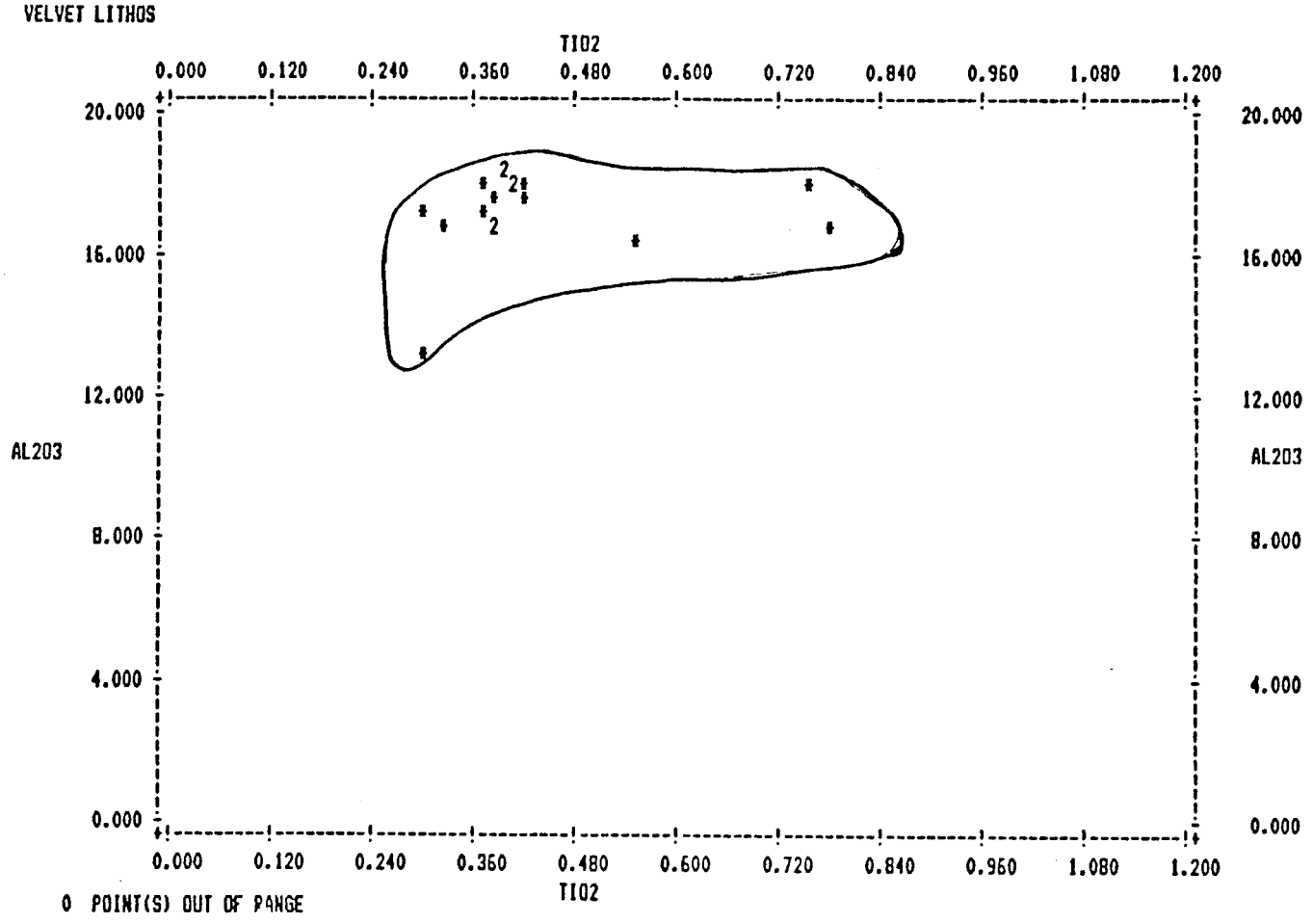
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	SIO2
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	48.39
MAXIMUM:	0.78	63.68
MEAN:	0.43	58.44
STANDARD ERROR OF MEAN:	0.03	1.10
STANDARD DEVIATION:	0.14	4.52
COEFFICIENT OF VARIATION:	32.15	7.73
SKEWNESS:	1.57	-1.10
KURTOSIS:	1.28	0.07

CORRELATION COEFFICIENT: -0.4467

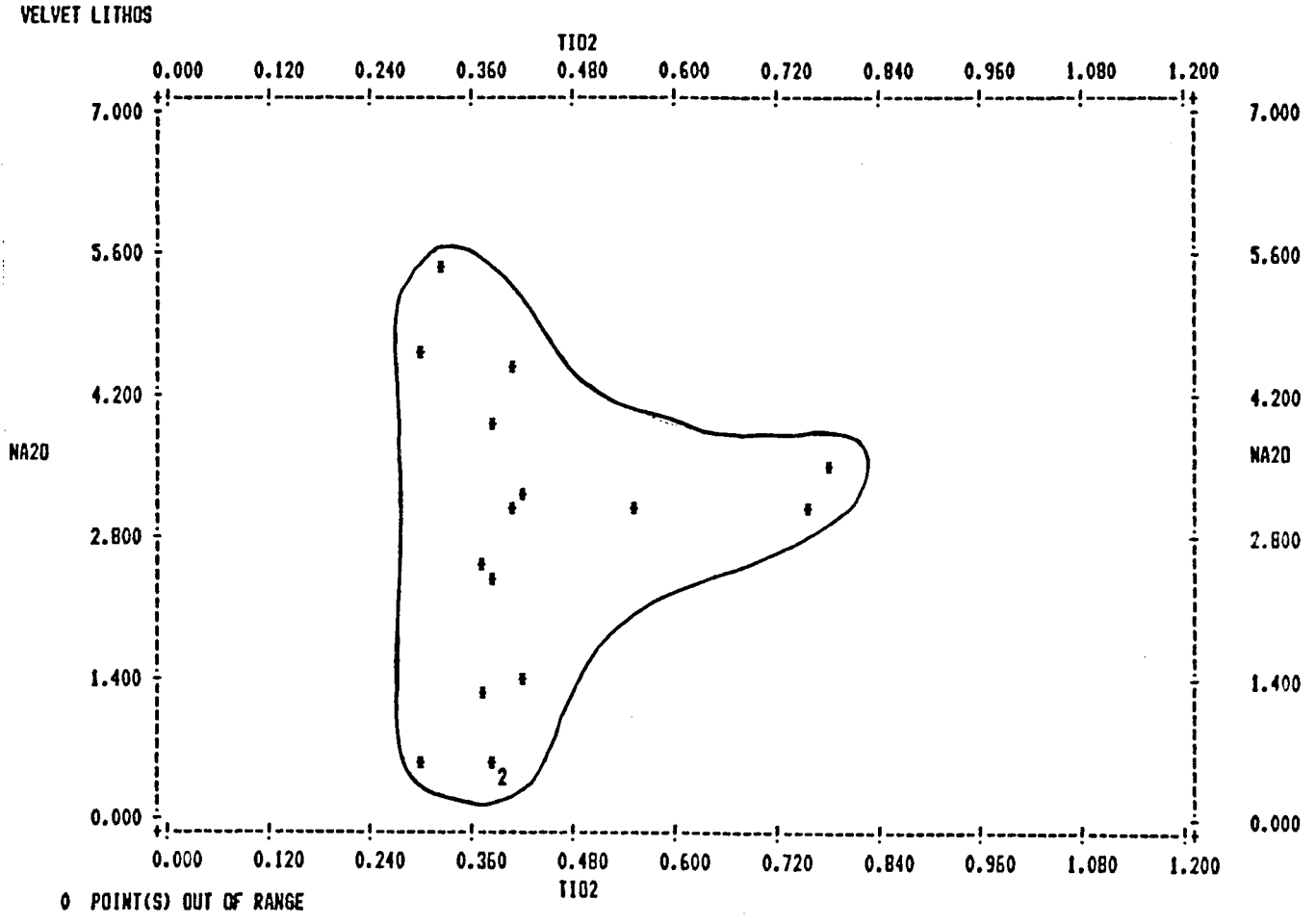
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	AL2O3
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	13.27
MAXIMUM:	0.78	18.57
MEAN:	0.43	17.31
STANDARD ERROR OF MEAN:	0.03	0.30
STANDARD DEVIATION:	0.14	1.23
COEFFICIENT OF VARIATION:	32.15	7.13
SKEWNESS:	1.57	-1.91
KURTOSIS:	1.28	3.98

CORRELATION COEFFICIENT: 0.1893

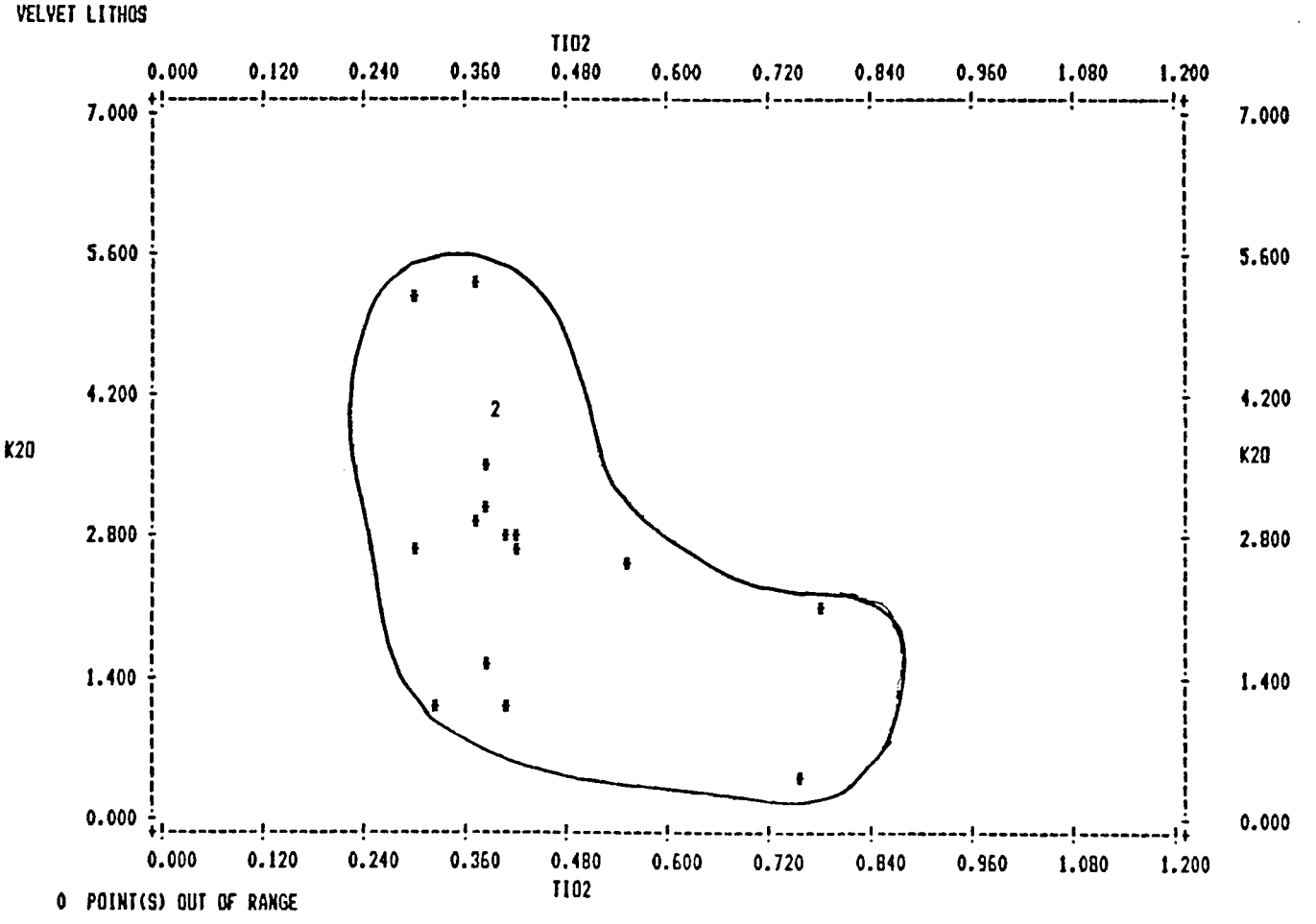
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	NA2O
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	0.37
MAXIMUM:	0.78	5.41
MEAN:	0.43	2.57
STANDARD ERROR OF MEAN:	0.03	0.39
STANDARD DEVIATION:	0.14	1.60
COEFFICIENT OF VARIATION:	32.15	62.41
SKEWNESS:	1.57	0.00
KURTOSIS:	1.28	-1.33

CORRELATION COEFFICIENT: 0.1341

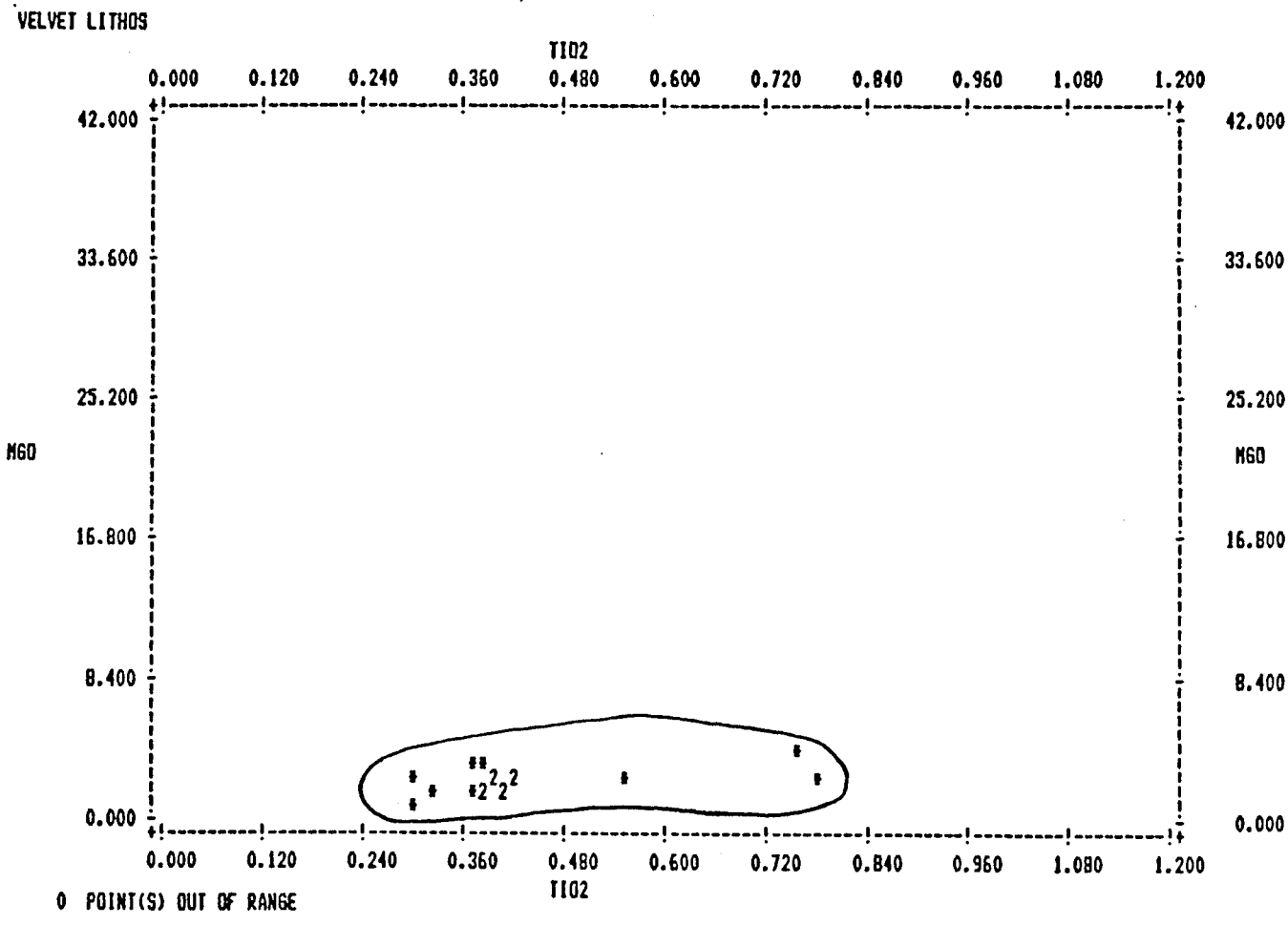
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	K2O
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	0.38
MAXIMUM:	0.78	5.38
MEAN:	0.43	2.81
STANDARD ERROR OF MEAN:	0.03	0.33
STANDARD DEVIATION:	0.14	1.37
COEFFICIENT OF VARIATION:	32.15	48.[illegible]
SKEWNESS:	1.57	0.20
KURTOSIS:	1.28	-0.69

CORRELATION COEFFICIENT: -0.4585

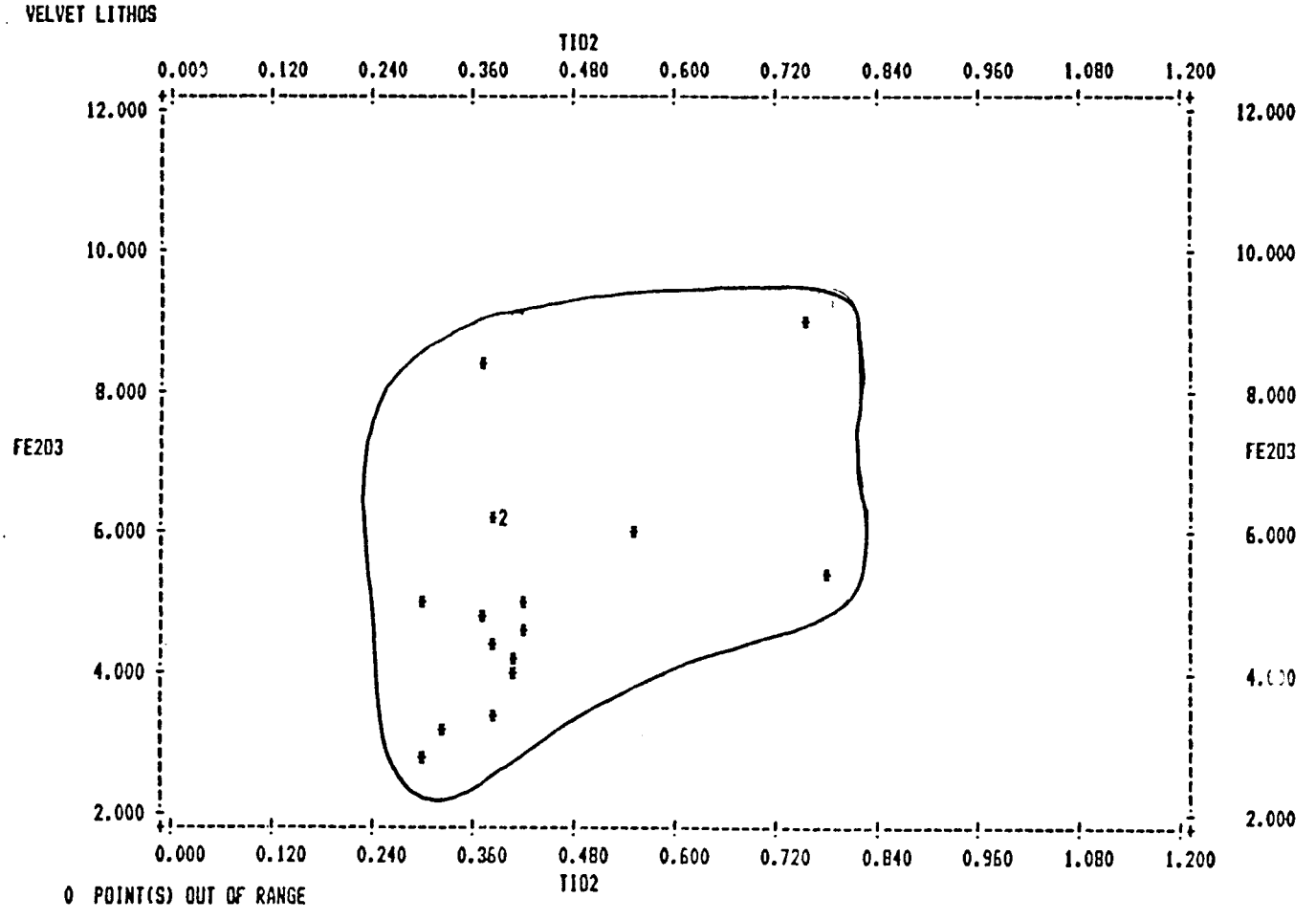
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	MGO
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	0.89
MAXIMUM:	0.78	4.12
MEAN:	0.43	2.24
STANDARD ERROR OF MEAN:	0.03	0.20
STANDARD DEVIATION:	0.14	0.81
COEFFICIENT OF VARIATION:	32.15	36.25
EWNESS:	1.57	0.42
KURTOSIS:	1.28	-0.45

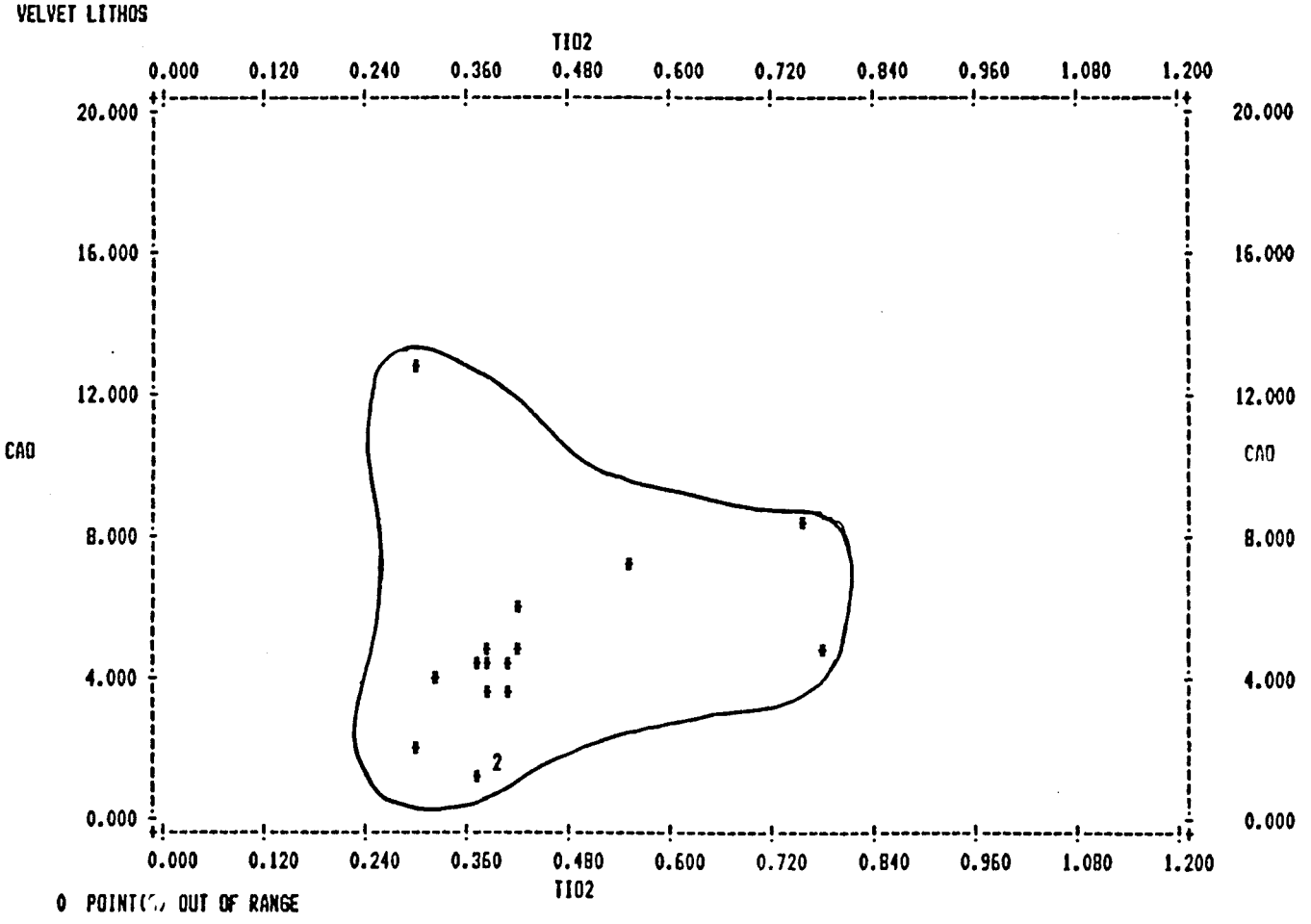
CORRELATION COEFFICIENT: 0.5751

Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	FE2O3
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	2.81
MAXIMUM:	0.78	9.01
MEAN:	0.43	5.23
STANDARD ERROR OF MEAN:	0.03	0.41
STANDARD DEVIATION:	0.14	1.67
COEFFICIENT OF VARIATION:	32.15	32.01
:EWNESS:	1.57	0.71
KURTOSIS:	1.28	-0.13
CORRELATION COEFFICIENT:	0.5075	

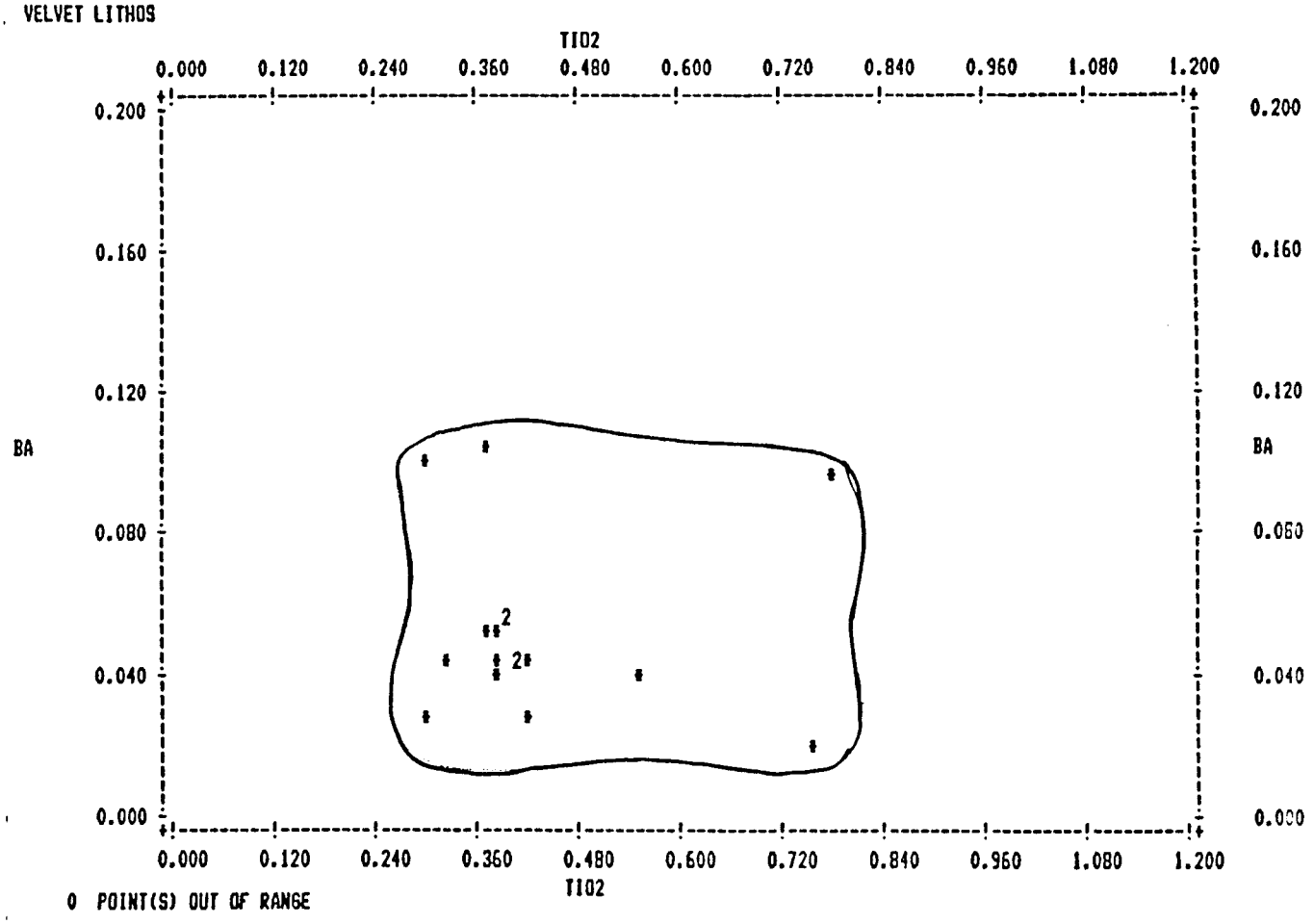
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	CAO
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	1.31
MAXIMUM:	0.78	12.92
MEAN:	0.43	4.71
STANDARD ERROR OF MEAN:	0.03	0.70
STANDARD DEVIATION:	0.14	2.87
COEFFICIENT OF VARIATION:	32.15	60.95
SKEWNESS:	1.57	1.26
KURTOSIS:	1.28	1.48

CORRELATION COEFFICIENT: 0.2174

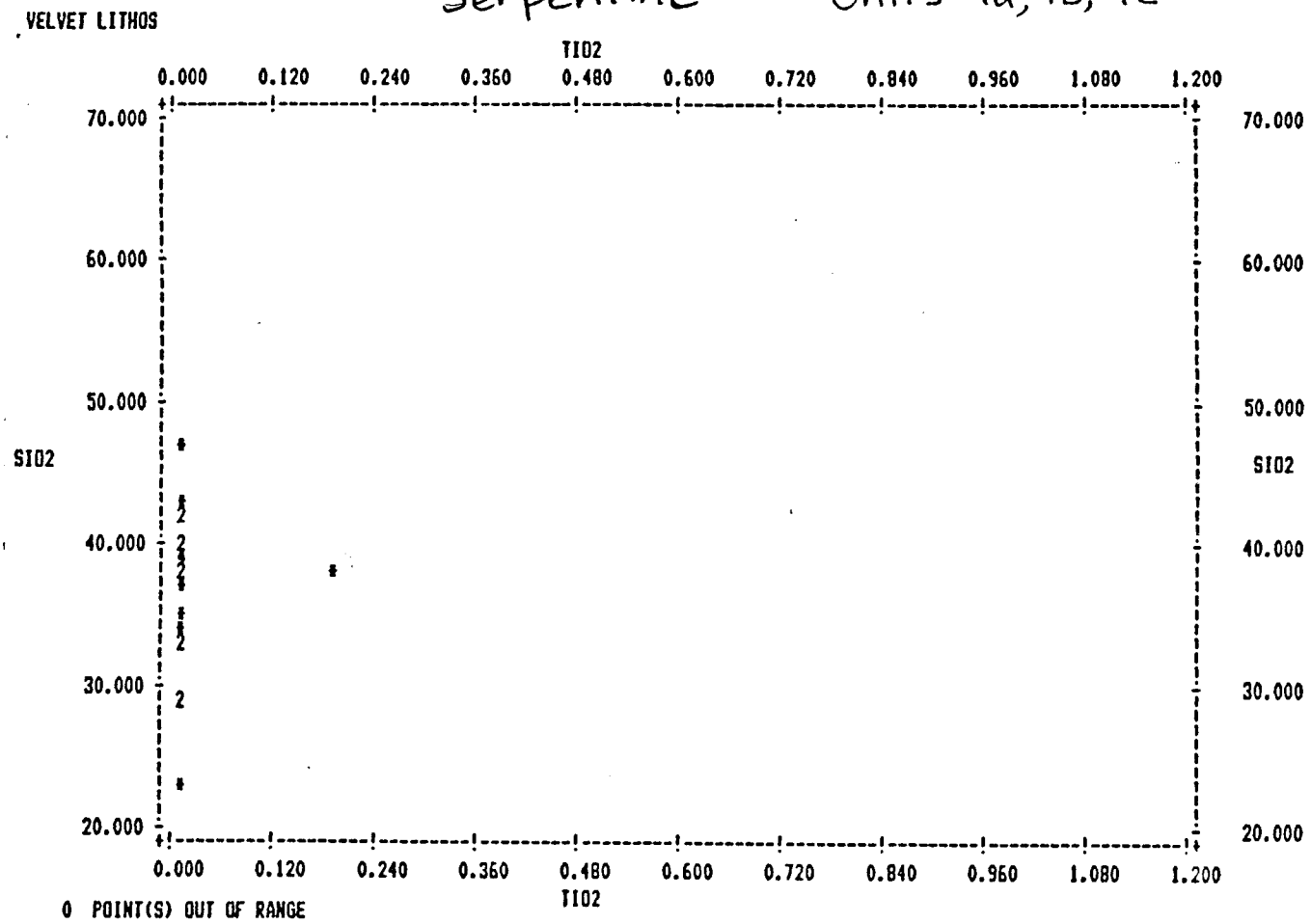
Mafic Volcanics - Unit 1



STATISTICS FOR VARIABLES:	TIO2	BA
NUMBER OF OBSERVATIONS:	17	17
MINIMUM:	0.30	0.02
MAXIMUM:	0.78	0.11
MEAN:	0.43	0.05
STANDARD ERROR OF MEAN:	0.03	0.01
STANDARD DEVIATION:	0.14	0.02
COEFFICIENT OF VARIATION:	32.15	46.30
SKEWNESS:	1.57	1.06
KURTOSIS:	1.28	-0.09

CORRELATION COEFFICIENT: -0.0222

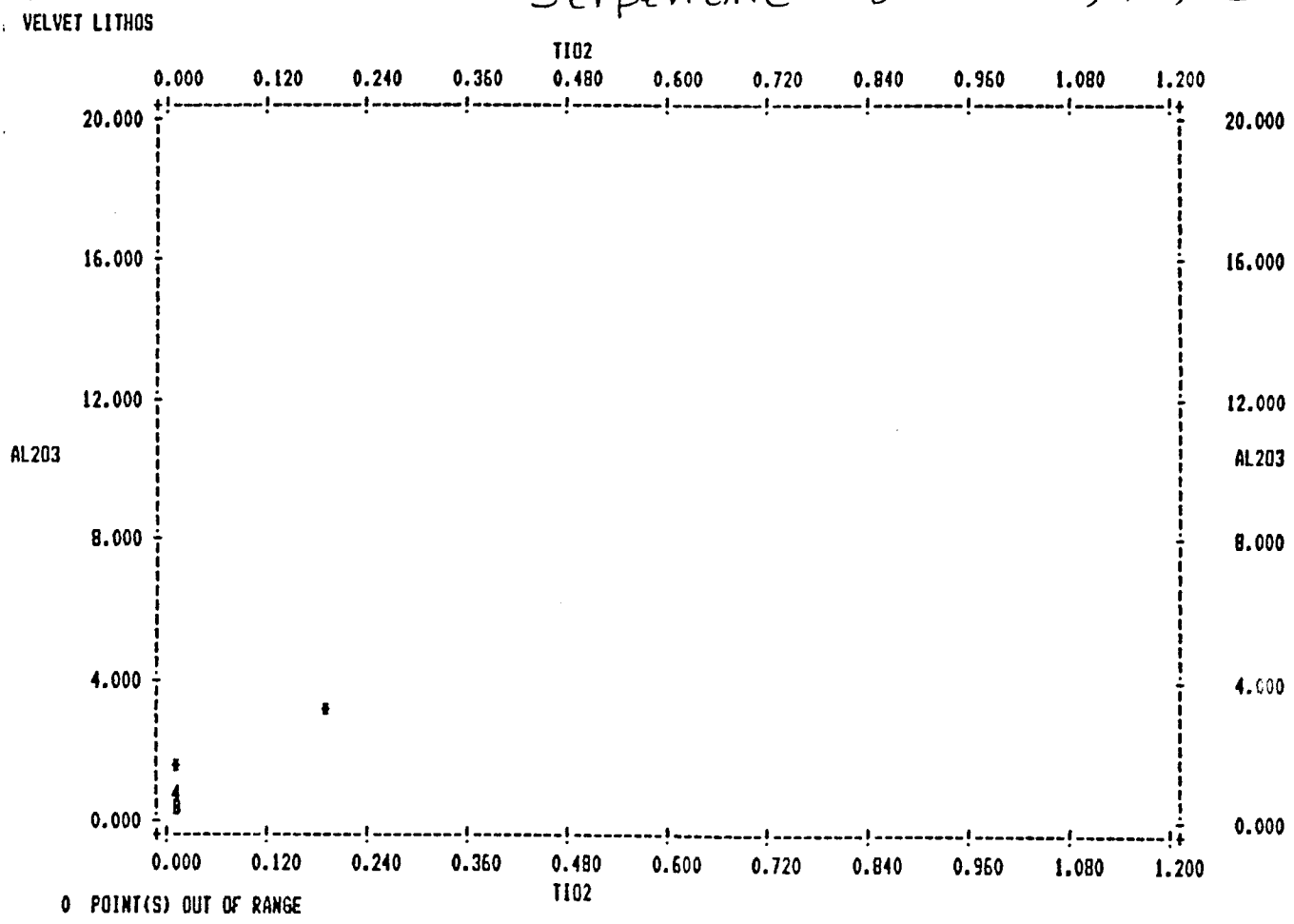
Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	SIO2
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	22.92
MAXIMUM:	0.19	46.59
MEAN:	0.02	36.92
STANDARD ERROR OF MEAN:	0.01	1.18
STANDARD DEVIATION:	0.04	5.40
COEFFICIENT OF VARIATION:	211.50	14.63
SKEWNESS:	3.95	-0.76
KURTOSIS:	14.28	0.30

CORRELATION COEFFICIENT: 0.0376

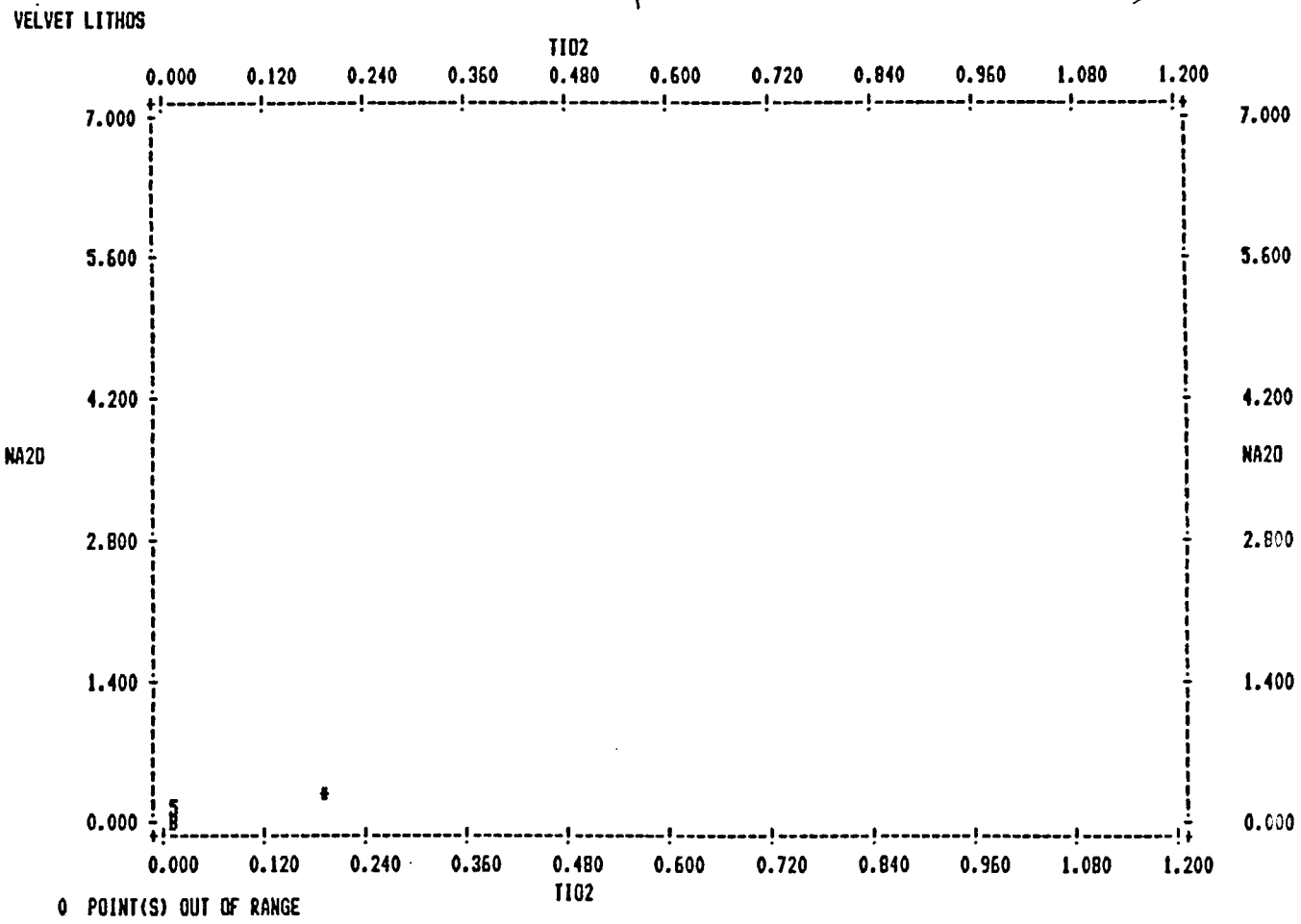
Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	AL2O3
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	0.23
MAXIMUM:	0.19	3.17
MEAN:	0.02	0.63
STANDARD ERROR OF MEAN:	0.01	0.14
STANDARD DEVIATION:	0.04	0.66
COEFFICIENT OF VARIATION:	211.50	105.44
SKEWNESS:	3.95	2.88
KURTOSIS:	14.28	7.81

CORRELATION COEFFICIENT: 0.8811

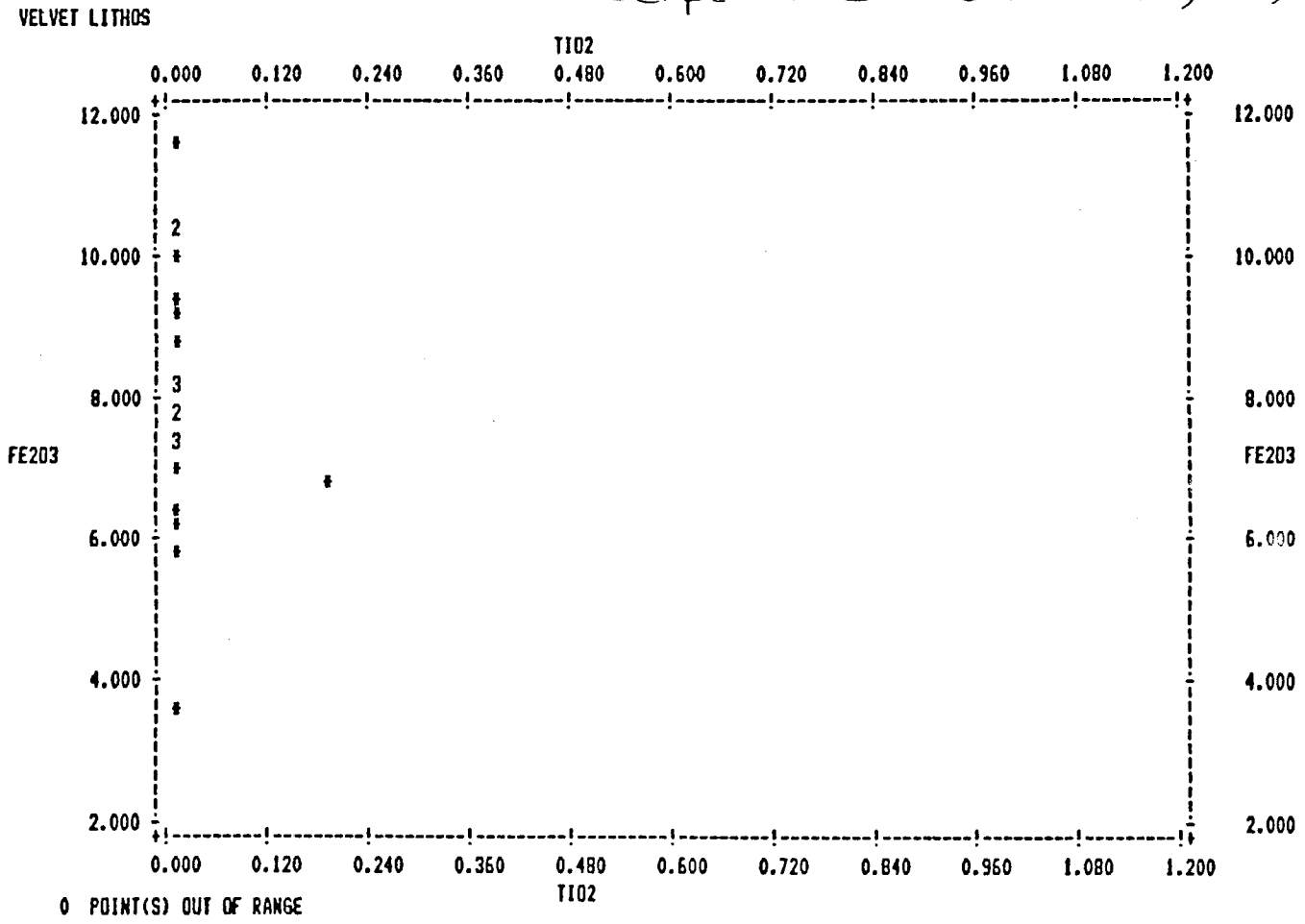
Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	NA2O
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	0.01
MAXIMUM:	0.19	0.28
MEAN:	0.02	0.06
STANDARD ERROR OF MEAN:	0.01	0.02
STANDARD DEVIATION:	0.04	0.07
COEFFICIENT OF VARIATION:	211.50	119.02
SKEWNESS:	3.95	1.60
KURTOSIS:	14.28	2.07

CORRELATION COEFFICIENT: 0.7204

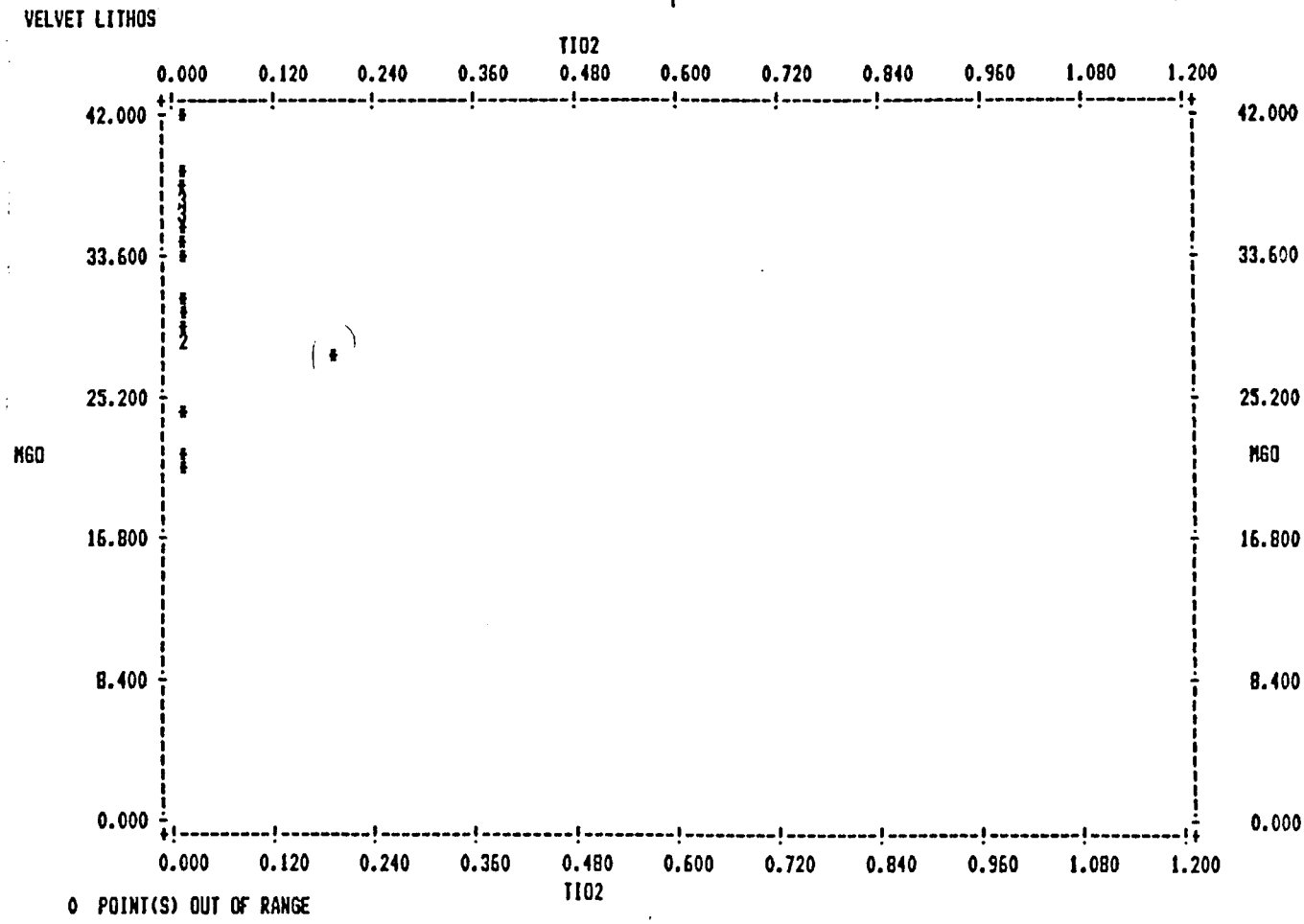
Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	FE2O3
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	3.52
MAXIMUM:	0.19	11.57
MEAN:	0.02	7.98
STANDARD ERROR OF MEAN:	0.01	0.40
STANDARD DEVIATION:	0.04	1.83
COEFFICIENT OF VARIATION:	211.50	22.94
SKEWNESS:	3.95	-0.19
KURTOSIS:	14.28	-0.04

CORRELATION COEFFICIENT: -0.1414

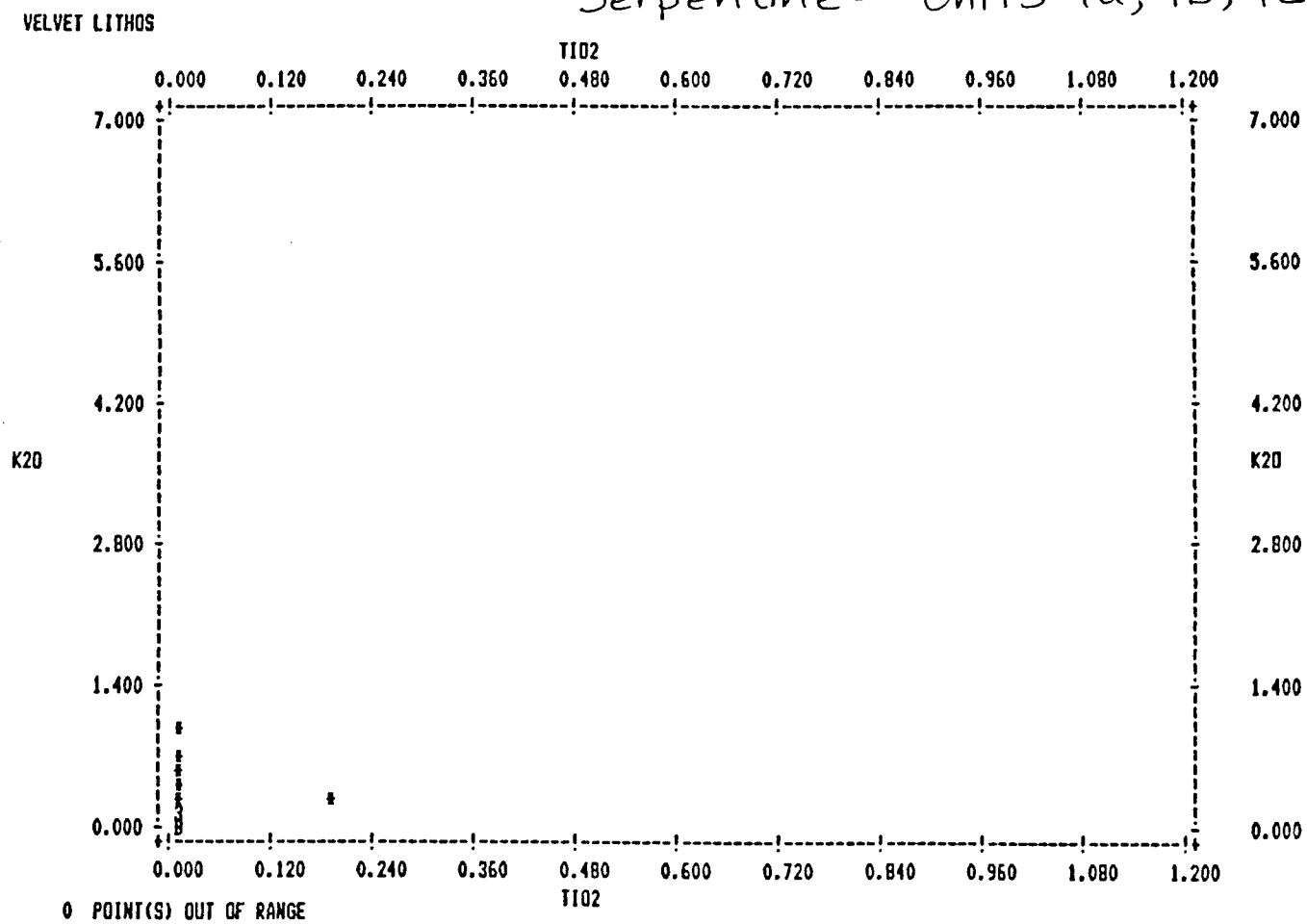
Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	MGO
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	20.72
MAXIMUM:	0.19	41.88
MEAN:	0.02	32.56
STANDARD ERROR OF MEAN:	0.01	1.23
STANDARD DEVIATION:	0.04	5.63
COEFFICIENT OF VARIATION:	211.50	17.30
SKEWNESS:	3.95	-0.53
KURTOSIS:	14.28	-0.76

CORRELATION COEFFICIENT: -0.1878

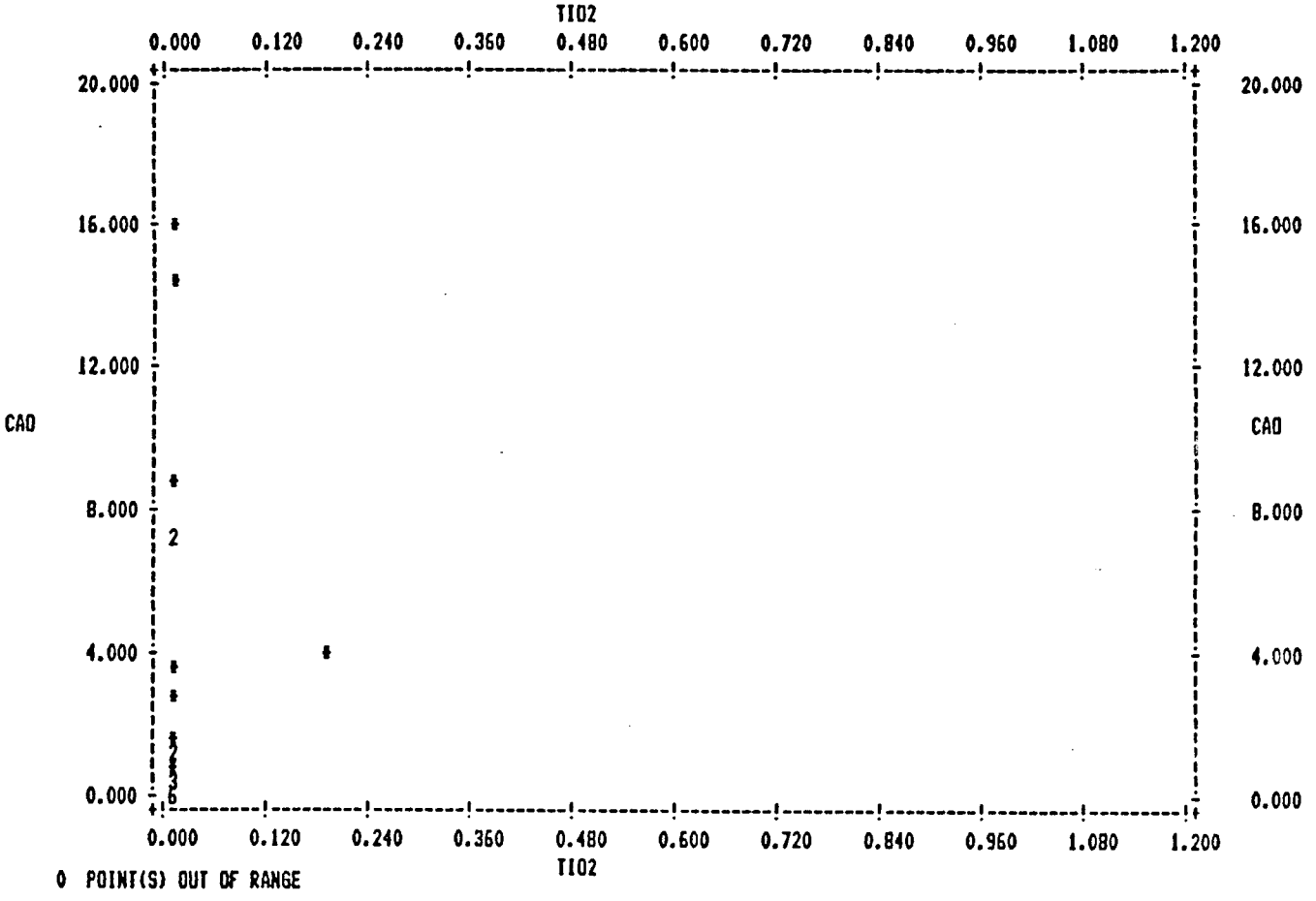
Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	K2O
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	0.01
MAXIMUM:	0.19	0.98
MEAN:	0.02	0.18
STANDARD ERROR OF MEAN:	0.01	0.06
STANDARD DEVIATION:	0.04	0.27
COEFFICIENT OF VARIATION:	211.50	153.34
SKEWNESS:	3.95	1.61
KURTOSIS:	14.28	1.59

CORRELATION COEFFICIENT: 0.0519

Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	CAO
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	0.01
MAXIMUM:	0.19	16.09
MEAN:	0.02	3.35
STANDARD ERROR OF MEAN:	0.01	1.04
STANDARD DEVIATION:	0.04	4.78
COEFFICIENT OF VARIATION:	211.50	142.50
SKEWNESS:	3.95	1.48
KURTOSIS:	14.28	1.05

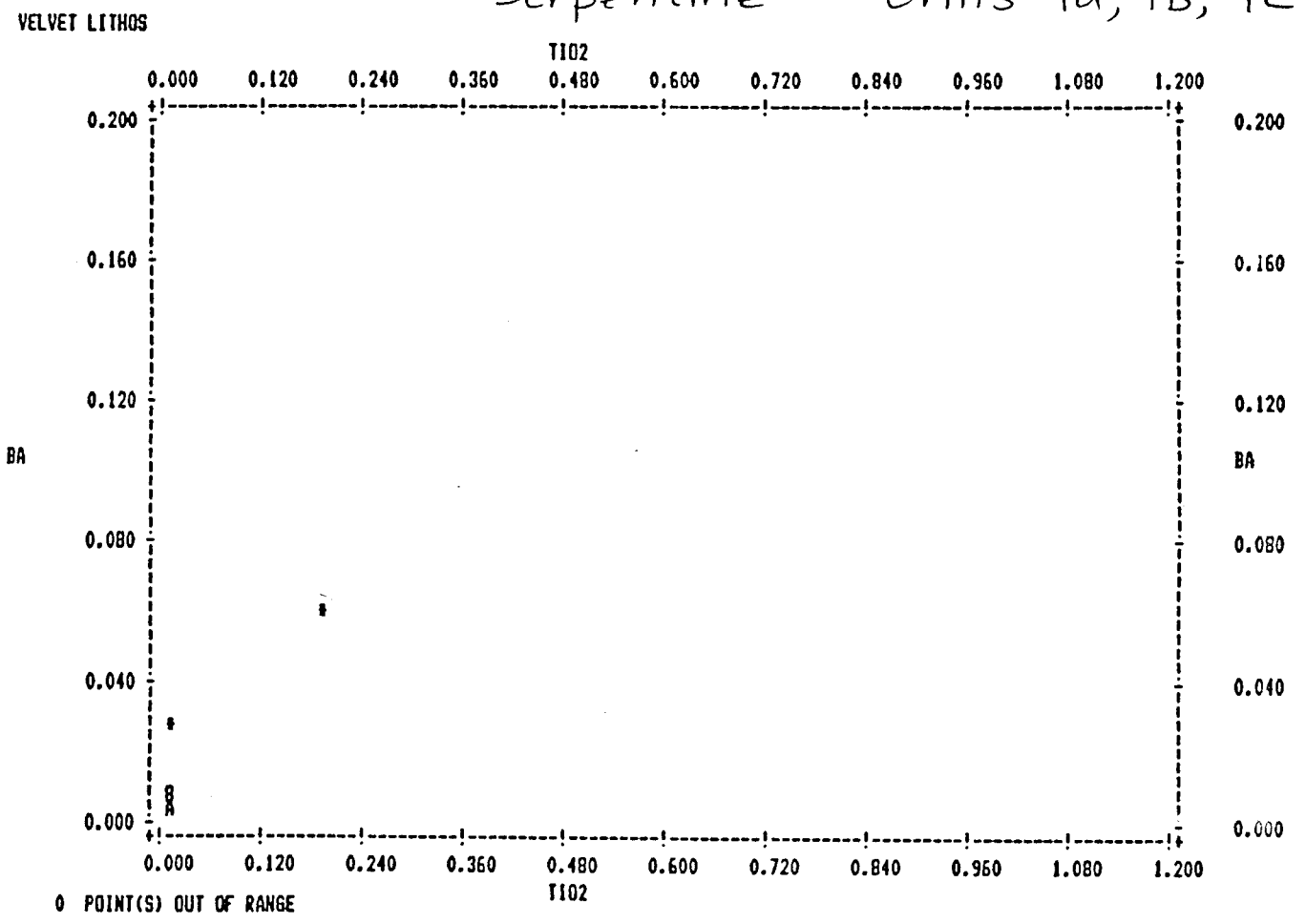
CORRELATION COEFFICIENT: 0.0243

APPENDIX III

ASSAY DATA AND PLOTS

Samples of ore collected from surface and underground workings in 1989 are included in this listing of assay data. The width listed corresponds to the sample width and is often, but not necessarily, the width of the ore. In some cases the entire width of ore may have been inaccessible (due to caving, etc) or two or more samples may have been collected if the ore zone was very wide. A width of '0' is assigned to grab samples.

Serpentine - Units 1a, 1b, 1c



STATISTICS FOR VARIABLES:	TIO2	BA
NUMBER OF OBSERVATIONS:	21	21
MINIMUM:	0.01	0.00
MAXIMUM:	0.19	0.06
MEAN:	0.02	0.01
STANDARD ERROR OF MEAN:	0.01	0.00
STANDARD DEVIATION:	0.04	0.01
COEFFICIENT OF VARIATION:	211.50	117.40
SKEWNESS:	3.95	2.99
KURTOSIS:	14.28	8.51
CORRELATION COEFFICIENT:	0.8978	

SAMPLE_NO	CU_PER	PB_PER	ZN_PER	AG_GMPT	AG_OZPT	AU_GMPT	AU_OZPT	WIDTH
BCD17967	1.360	0.02	0.02	18.4	0.54	19.00	0.554	0
BCD17968	1.260	0.03	0.01	19.9	0.58	10.76	0.314	0
BCD17969	9.580	0.02	0.01	39.0	1.14	11.15	0.326	0
BCS17437	1.980	0.01	0.01	13.80	0.40	4.10	0.120	1.0
BCS17441	1.510	0.01	0.02	10.20	0.30	0.66	0.019	1.0
BCS18226	0.785	0.01	0.01	6.6	0.19	0.46	0.013	1.0
BCS18227	0.448	0.01	0.02	4.5	0.13	0.25	0.007	1.0
BCS18228	0.583	0.01	0.01	6.9	0.20	1.43	0.042	1.0
BCS18229	0.800	0.01	0.01	7.0	0.20	0.79	0.023	1.0
BCS18230	1.200	0.01	0.01	8.4	0.25	0.52	0.015	1.0
BCS18231	0.698	0.01	0.02	7.7	0.22	0.40	0.012	1.0
BCS18232	0.071	0.01	0.02	3.6	0.11	0.02	0.001	1.0
BCS18233	0.193	0.01	0.01	2.4	0.07	0.07	0.002	1.0
BCS18234	0.990	0.01	0.02	7.8	0.23	2.15	0.063	1.0
BCS18235	2.490	0.01	0.01	11.2	0.33	1.20	0.035	1.0
BCS18236	1.420	0.01	0.01	7.7	0.22	2.59	0.076	1.0
BCS18243	0.032	0.01	0.01	0.8	0.02	0.02	0.001	1.0
BCS18245	0.075	0.01	0.01	2.5	0.07	0.03	0.001	1.0
BCS18246	0.480	0.01	0.01	4.1	0.12	0.50	0.015	1.0
BCS18247	0.502	0.01	0.01	8.3	0.24	0.70	0.020	1.0
BCS18248	1.730	0.01	0.01	7.7	0.22	1.32	0.039	1.0
BCS18249	0.820	0.01	0.01	6.2	0.18	0.78	0.023	1.0
BCS18250	0.252	0.01	0.01	3.6	0.11	0.82	0.024	1.0
BCS18251	0.560	0.01	0.01	4.5	0.13	4.71	0.137	1.0
BCS18252	1.120	0.01	0.01	4.3	0.13	0.25	0.007	1.0
BCS18253	2.590	0.01	0.01	12.0	0.35	0.32	0.009	1.0
BCS18254	1.080	0.01	0.01	8.4	0.25	1.06	0.031	1.0
BCS18255	2.370	0.01	0.01	15.8	0.46	0.46	0.013	1.0
BCS18256	0.790	0.01	0.01	7.5	0.22	0.39	0.011	1.0
BCS18257	1.810	0.01	0.01	9.7	0.28	0.98	0.029	1.0
BCS18258	0.163	0.01	0.01	1.9	0.06	0.21	0.006	1.0
BCS18259	0.228	0.01	0.01	1.8	0.05	0.05	0.001	1.0
BCS18260	0.232	0.01	0.01	2.1	0.06	0.22	0.006	1.5
BCS18261	0.382	0.01	0.01	2.2	0.06	0.18	0.005	1.5
BCS18262	0.930	0.01	0.01	5.7	0.17	0.17	0.005	1.5
BCS18263	0.196	0.01	0.01	1.8	0.05	0.19	0.006	1.5
BCS18264	0.294	0.01	0.01	2.2	0.06	0.18	0.005	1.5
BCS18265	0.443	0.01	0.01	3.6	0.11	0.19	0.006	1.0
BCS18270	0.235	0.01	0.01	3.1	0.09	0.03	0.001	1.0
BCS18271	0.650	0.01	0.02	6.5	0.19	0.18	0.005	1.5
BCS18272	4.820	0.01	0.03	23.4	0.68	2.06	0.060	1.5
BCS18273	0.940	0.01	0.02	7.5	0.22	0.24	0.007	2.0
BCS18274	0.800	0.01	0.01	4.8	0.14	0.18	0.005	2.0
BCS18289	0.920	0.01	0.02	6.3	0.18	0.27	0.008	2.0
BCS18290	10.95	0.01	0.01	62.0	1.81	33.00	0.963	2.0
BCS18292	0.990	0.01	0.01	8.6	0.25	7.310	0.213	0.75
BCS18294	1.240	0.01	0.02	19.8	0.58	31.00	0.904	2.0
BCS18311	1.930	0.01	0.01	11.6	0.34	3.48	0.102	2.0
BCS18312	3.280	0.01	0.01	14.3	0.42	3.78	0.110	2.0
BCS18313	1.940	0.01	0.01	9.7	0.28	0.59	0.017	2.0
BCS18314	4.160	0.01	0.07	25.4	0.74	29.40	0.858	2.5
BCS18315	4.550	0.01	0.03	64.0	1.87	51.75	1.509	0
BCS18321	2.120	0.01	0.02	20.5	0.60	27.40	[illegible]	1.0
BCS18323	7.900	0.01	0.02	41.8	1.22	11.00	0.321	1.5
BCS18324	1.390	0.01	0.01	9.9	0.29	1.50	0.044	1.0

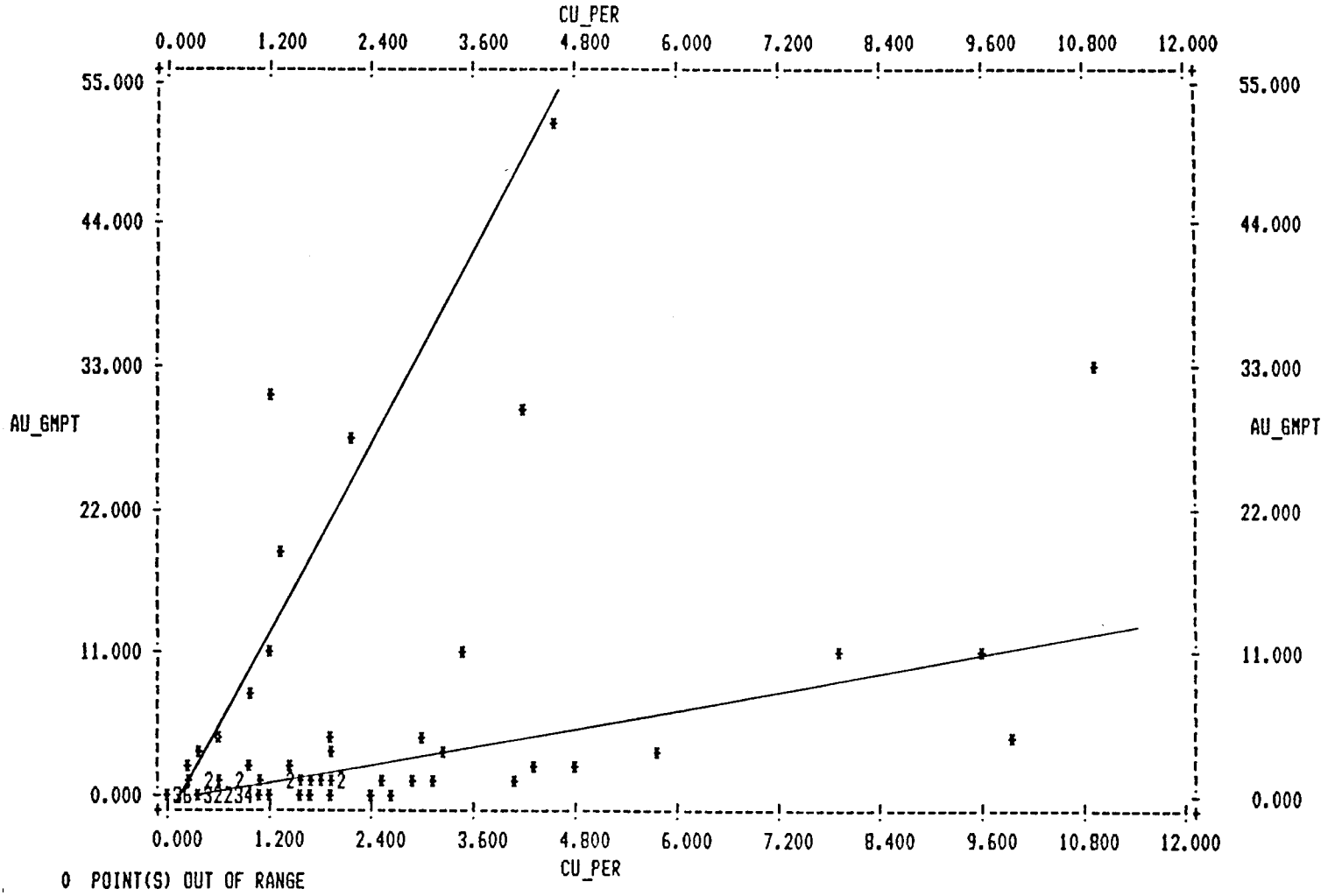
BCS18325	5.720	0.01	0.01	44.3	1.29	3.74	0.109	2.0
BCS18326	4.090	0.02	0.02	20.8	0.61	1.16	0.034	1.7
BCS18327	2.010	0.01	0.01	12.2	0.36	0.82	0.024	2.0
BCS18328	1.420	0.01	0.02	10.6	0.31	0.80	0.023	0.7
BCS18330	1.730	0.01	0.01	9.4	0.27	0.46	0.013	0.4
BCS18331	0.625	0.01	0.01	4.2	0.12	0.07	0.002	1.5
BCS18332	3.500	0.01	0.01	24.0	0.70	11.11	0.324	2.5
BCS18333	2.920	0.01	0.01	17.6	0.51	1.02	0.030	2.5
BCS18334	0.724	0.01	0.02	7.2	0.21	0.28	0.008	1.0
BCS18335	3.110	0.01	0.02	20.4	0.60	1.04	0.030	2.0
BCS18336	3.030	0.01	0.01	22.5	0.66	4.43	0.129	1.0
BCS18337	0.417	0.01	0.02	6.4	0.19	3.59	0.105	1.5
BCS18338	2.10	0.01	0.01	16.9	0.49	1.11	0.032	2.0
BCS18339	1.870	0.01	0.02	19.8	0.58	0.41	0.012	1.5
BCS18340	4.320	0.01	0.01	23.0	0.67	2.22	0.065	3.0
BCS18341	9.980	0.01	0.01	47.6	1.39	4.50	0.131	0.6
BCS18342	0.916	0.01	0.01	8.1	0.24	0.35	0.010	1.5
BCS17440	1.590	0.01	0.02	10.2	0.30	0.41	0.012	1.0
BCS17484	0.455	0.01	0.01	3.8	0.11	0.69	0.020	1.0
BCS17487	0.279	0.01	0.01	4.2	0.12	2.21	0.064	1.0
BCS17487	0.279	0.01	0.01	4.2	0.12	2.21	0.064	1.0

VELVET ASSAYS

CORRELATION MATRIX: (99.0 INDICATES COEFFICIENT COULD NOT BE CALCULATED)

	CU_PER	PB_PER	ZN_PER	AG_GMPT	AU_GMPT	WIDTH
CU_PER	1.000	0.162	0.150	0.895	0.450	0.125
PB_PER	0.162	1.000	0.004	0.187	0.158	-0.352
ZN_PER	0.150	0.004	1.000	0.255	0.468	0.159
AG_GMPT	0.895	0.187	0.255	1.000	0.702	0.051
AU_GMPT	0.450	0.158	0.468	0.702	1.000	-0.057
WIDTH	0.125	-0.352	0.159	0.051	-0.057	1.000

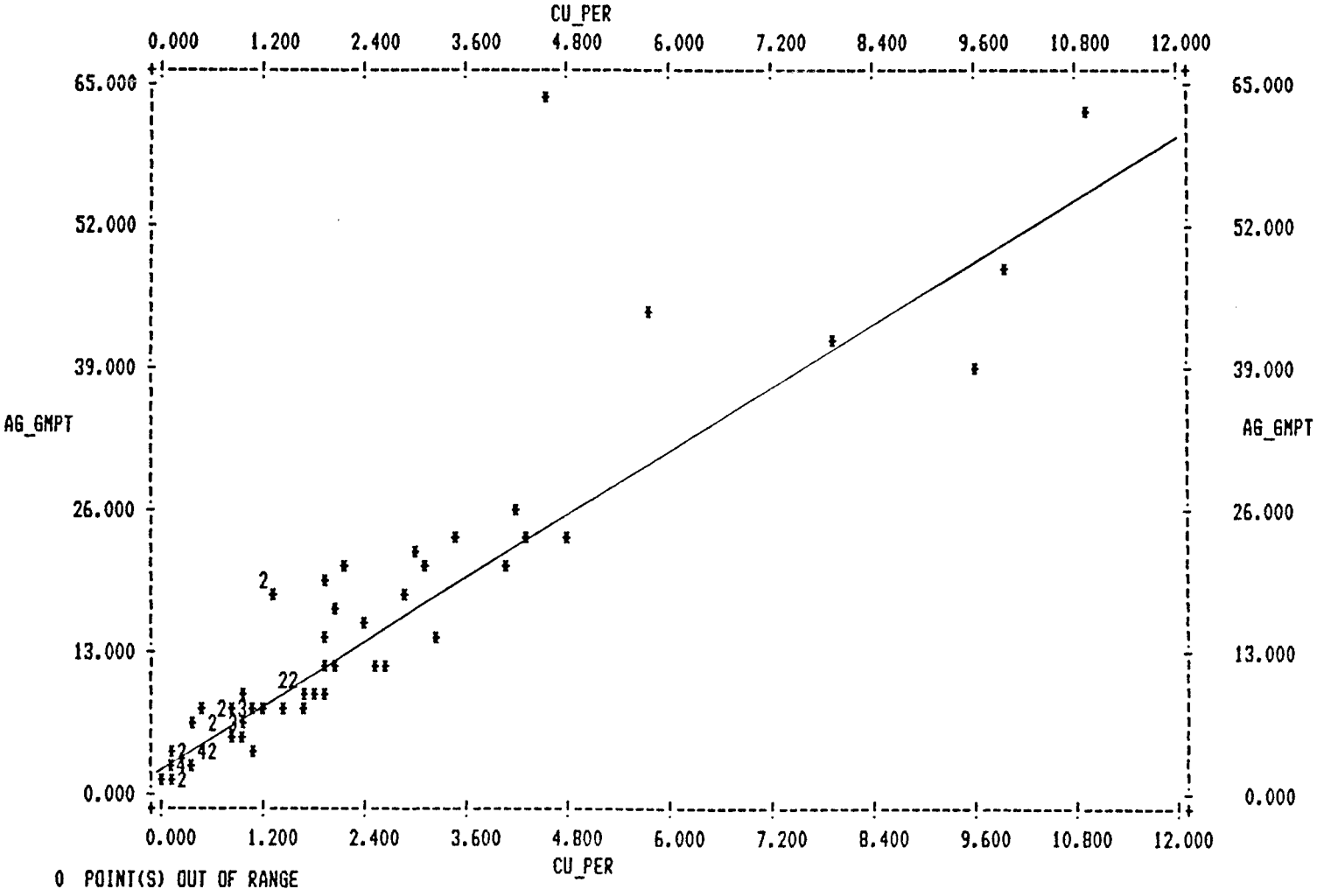
VELVET ASSAYS



STATISTICS FOR VARIABLES:	CU_PER	AU_GMPT
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.03	0.02
MAXIMUM:	10.95	51.75
MEAN:	1.89	4.17
STANDARD ERROR OF MEAN:	0.26	1.05
STANDARD DEVIATION:	2.24	9.09
COEFFICIENT OF VARIATION:	118.48	217.94
SKEWNESS:	2.34	3.22
URTOSIS:	5.62	10.85

CORRELATION COEFFICIENT: 0.4498

VELVET ASSAYS

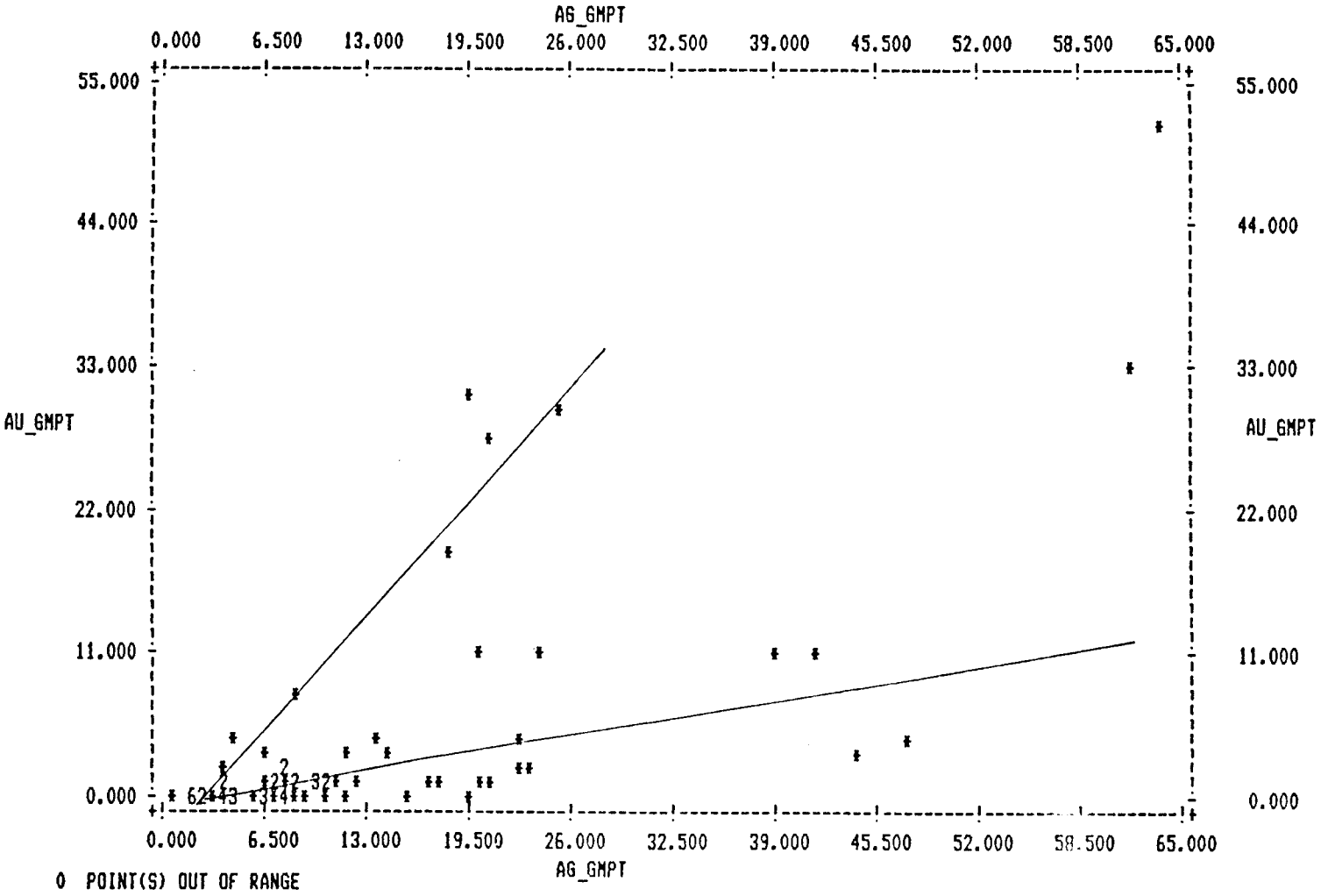


0 POINT(S) OUT OF RANGE

STATISTICS FOR VARIABLES:	CU_PER	AG_GMPT
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.03	0.80
MAXIMUM:	10.95	64.00
MEAN:	1.89	12.86
STANDARD ERROR OF MEAN:	0.26	1.50
STANDARD DEVIATION:	2.24	12.97
COEFFICIENT OF VARIATION:	118.48	100.86
SKEWNESS:	2.34	2.16
JRTOSIS:	5.62	4.83

CORRELATION COEFFICIENT: 0.8954

VELVET ASSAYS

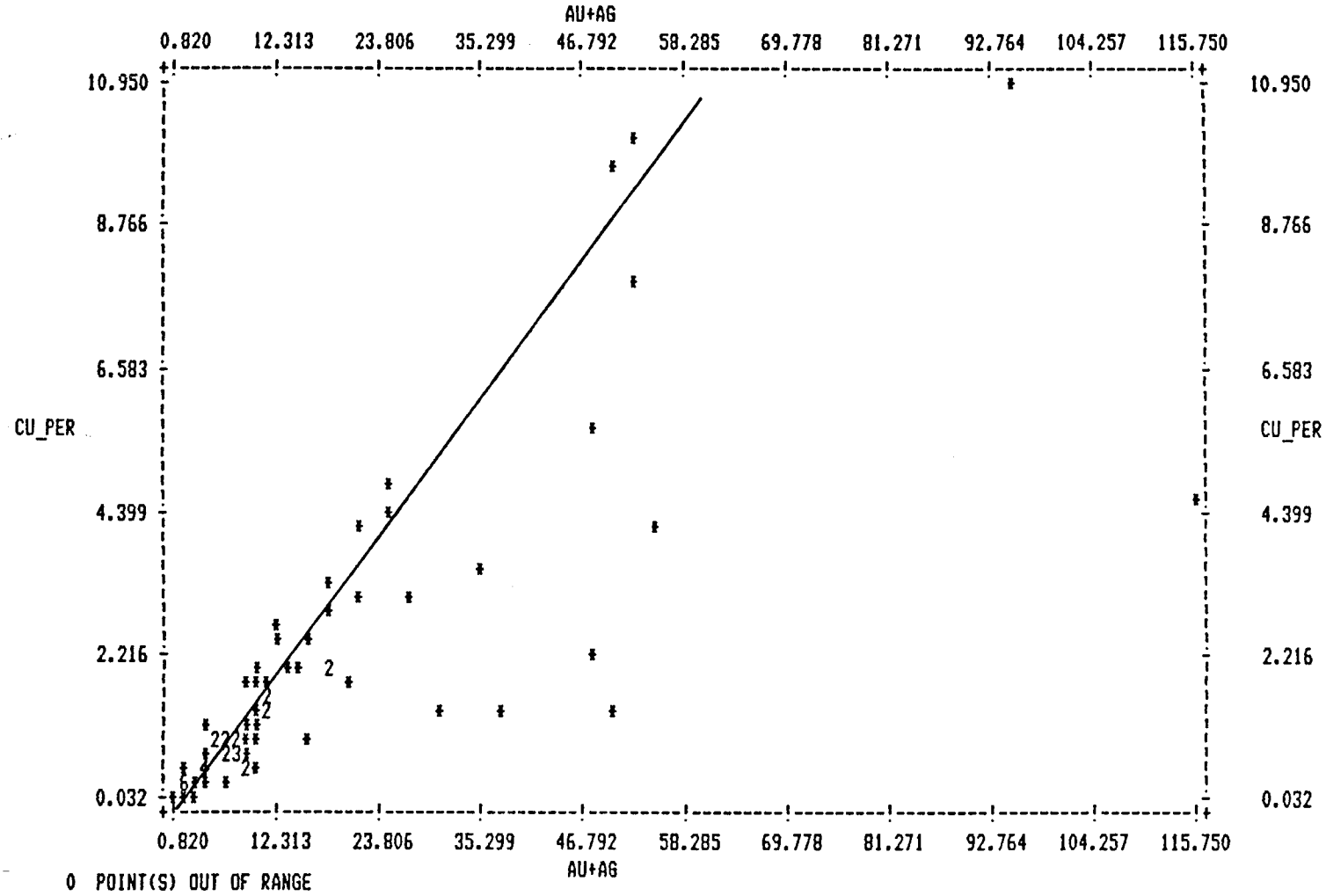


0 POINT(S) OUT OF RANGE

STATISTICS FOR VARIABLES:	AG_GMPT	AU_GMPT
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.80	0.02
MAXIMUM:	64.00	51.75
MEAN:	12.86	4.17
STANDARD ERROR OF MEAN:	1.50	1.05
STANDARD DEVIATION:	12.97	9.09
COEFFICIENT OF VARIATION:	100.86	217.94
SKEWNESS:	2.16	3.22
KURTOSIS:	4.83	10.85

CORRELATION COEFFICIENT: 0.7025

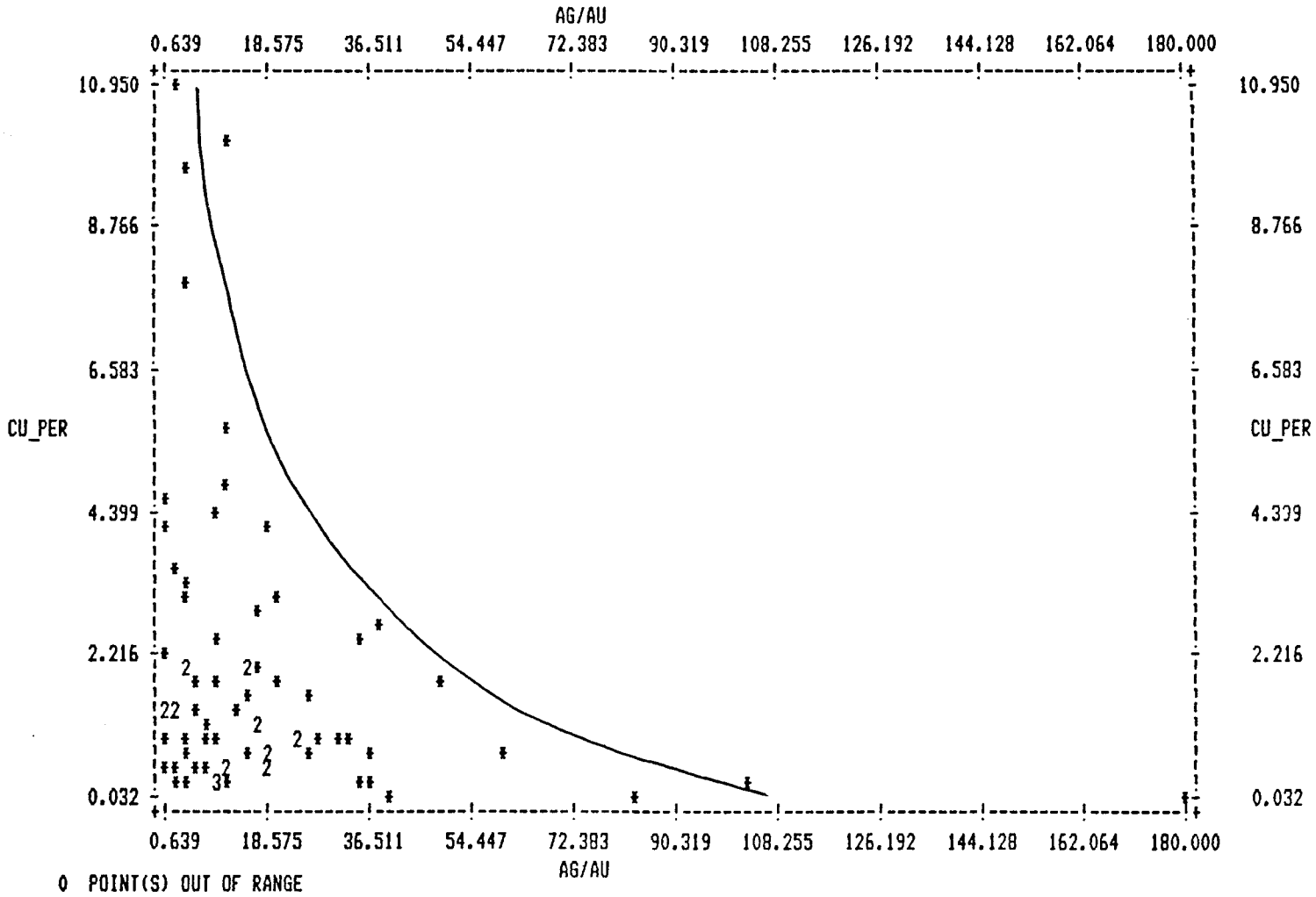
VELVET ASSAYS



STATISTICS FOR VARIABLES:	AU+AG	CU_PER
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.82	0.03
MAXIMUM:	115.75	10.95
MEAN:	17.03	1.89
STANDARD ERROR OF MEAN:	2.36	0.26
STANDARD DEVIATION:	20.41	2.24
COEFFICIENT OF VARIATION:	119.84	118.48
SKEWNESS:	2.61	2.34
KURTOSIS:	7.97	5.62

CORRELATION COEFFICIENT: 0.7694

VELVET ASSAYS

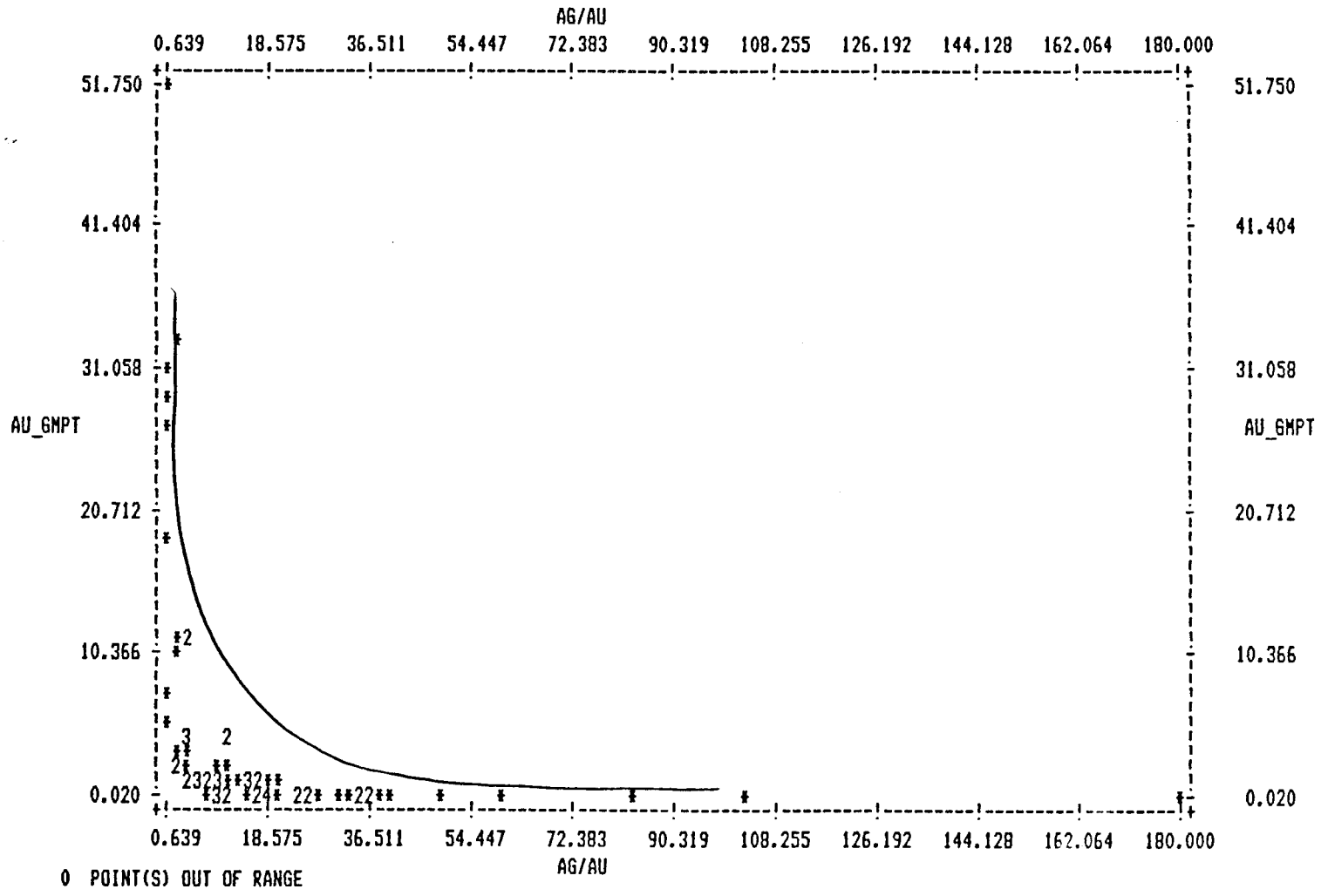


0 POINT(S) OUT OF RANGE

STATISTICS FOR VARIABLES:	AG/AU	CU_PER
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.64	0.03
MAXIMUM:	180.00	10.95
MEAN:	18.52	1.89
STANDARD ERROR OF MEAN:	3.00	0.26
STANDARD DEVIATION:	26.01	2.24
COEFFICIENT OF VARIATION:	140.45	118.48
SKEWNESS:	3.88	2.34
URTOSIS:	19.02	5.62

CORRELATION COEFFICIENT: -0.2462

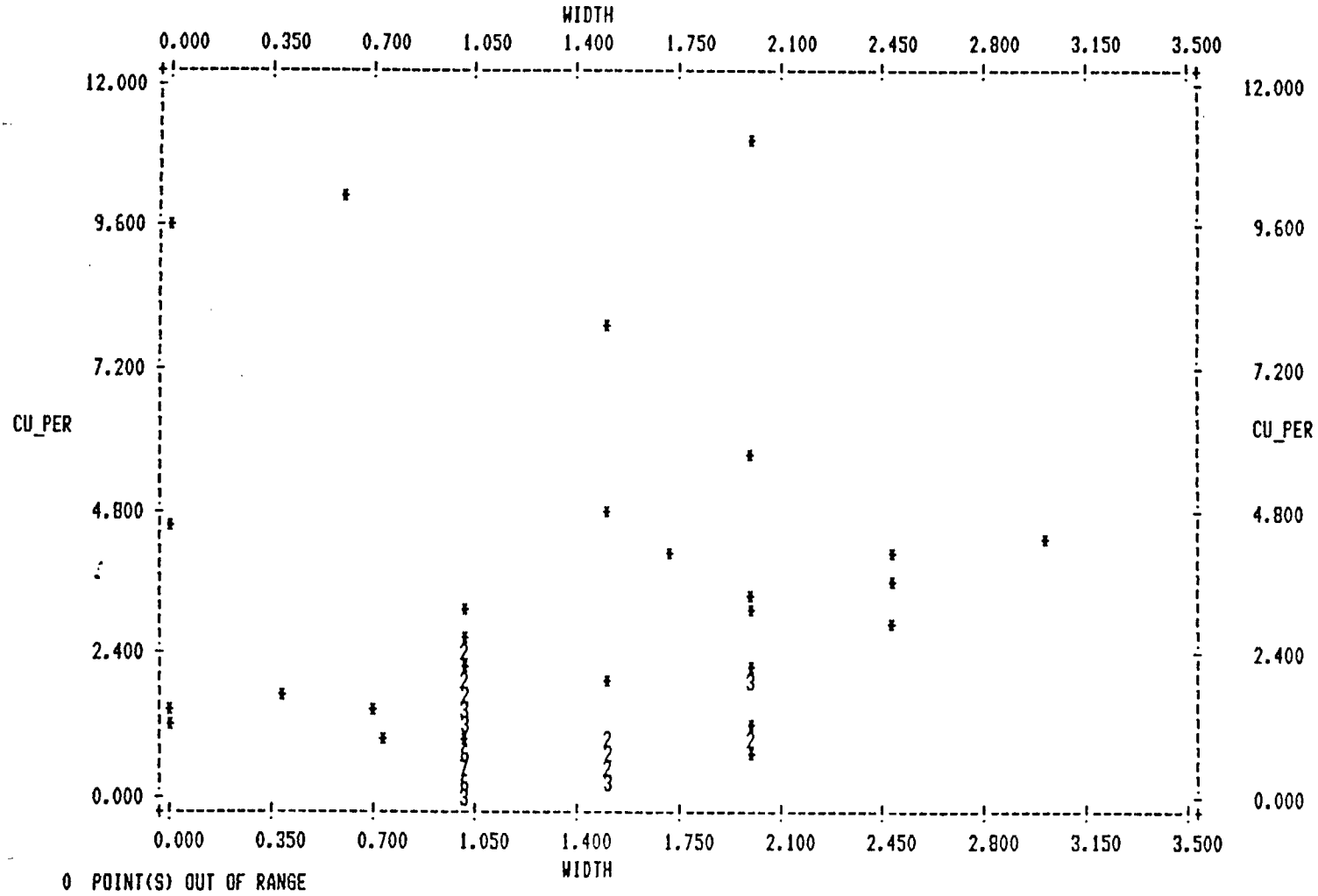
VELVET ASSAYS



STATISTICS FOR VARIABLES:	AG/AU	AU_GMPT
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.64	0.02
MAXIMUM:	180.00	51.75
MEAN:	18.52	4.17
STANDARD ERROR OF MEAN:	3.00	1.05
STANDARD DEVIATION:	26.01	9.09
COEFFICIENT OF VARIATION:	140.45	217.94
SKEWNESS:	3.88	3.22
URTOSIS:	19.02	10.85

ORRELATION COEFFICIENT: -0.2760

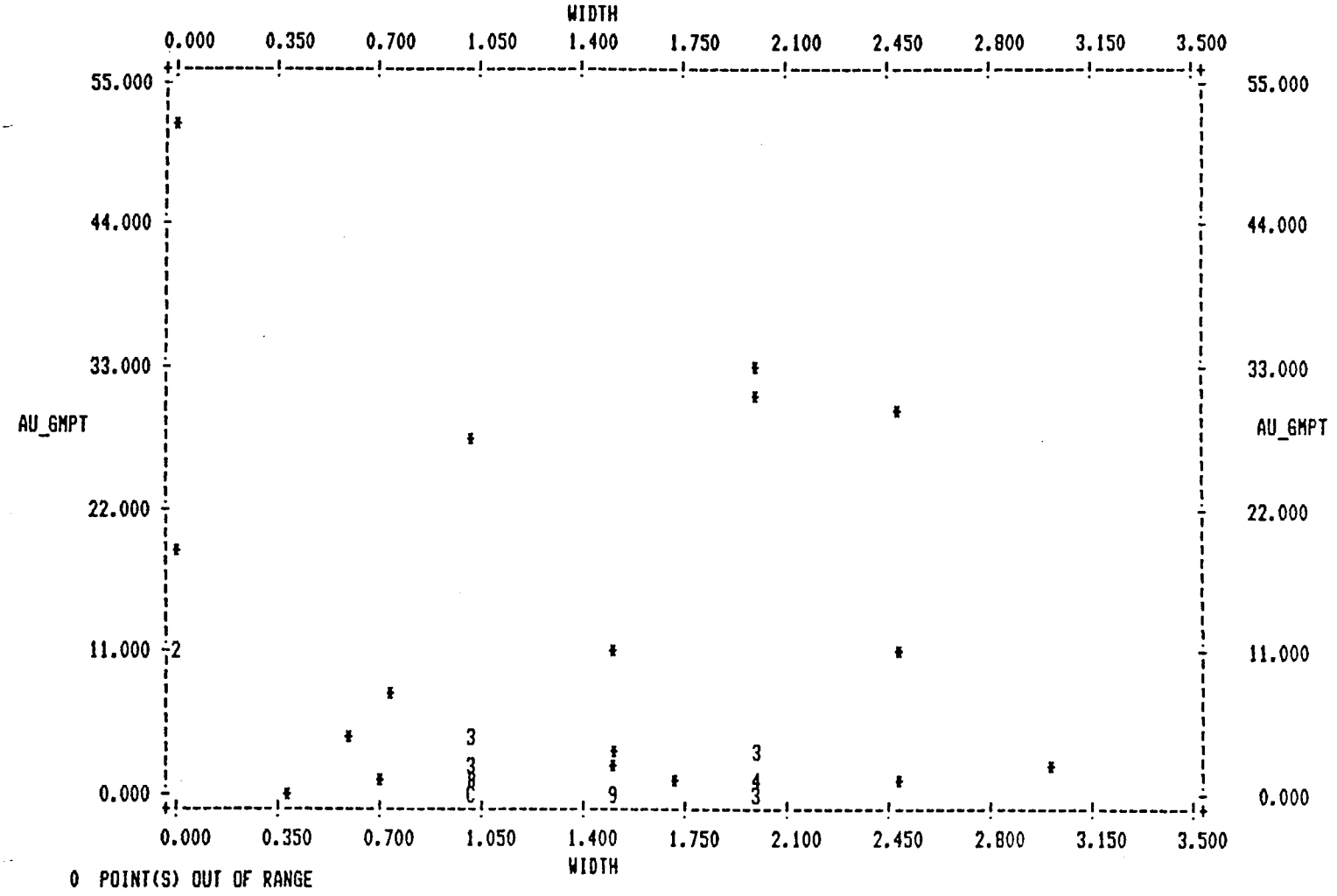
VELVET ASSAYS



STATISTICS FOR VARIABLES:	WIDTH	CU_PER
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.00	0.03
MAXIMUM:	3.00	10.95
MEAN:	1.26	1.89
STANDARD ERROR OF MEAN:	0.07	0.26
STANDARD DEVIATION:	0.59	2.24
COEFFICIENT OF VARIATION:	46.76	118.48
SKEWNESS:	0.39	2.34
URTOSIS:	0.41	5.62

CORRELATION COEFFICIENT: 0.1251

VELVET ASSAYS

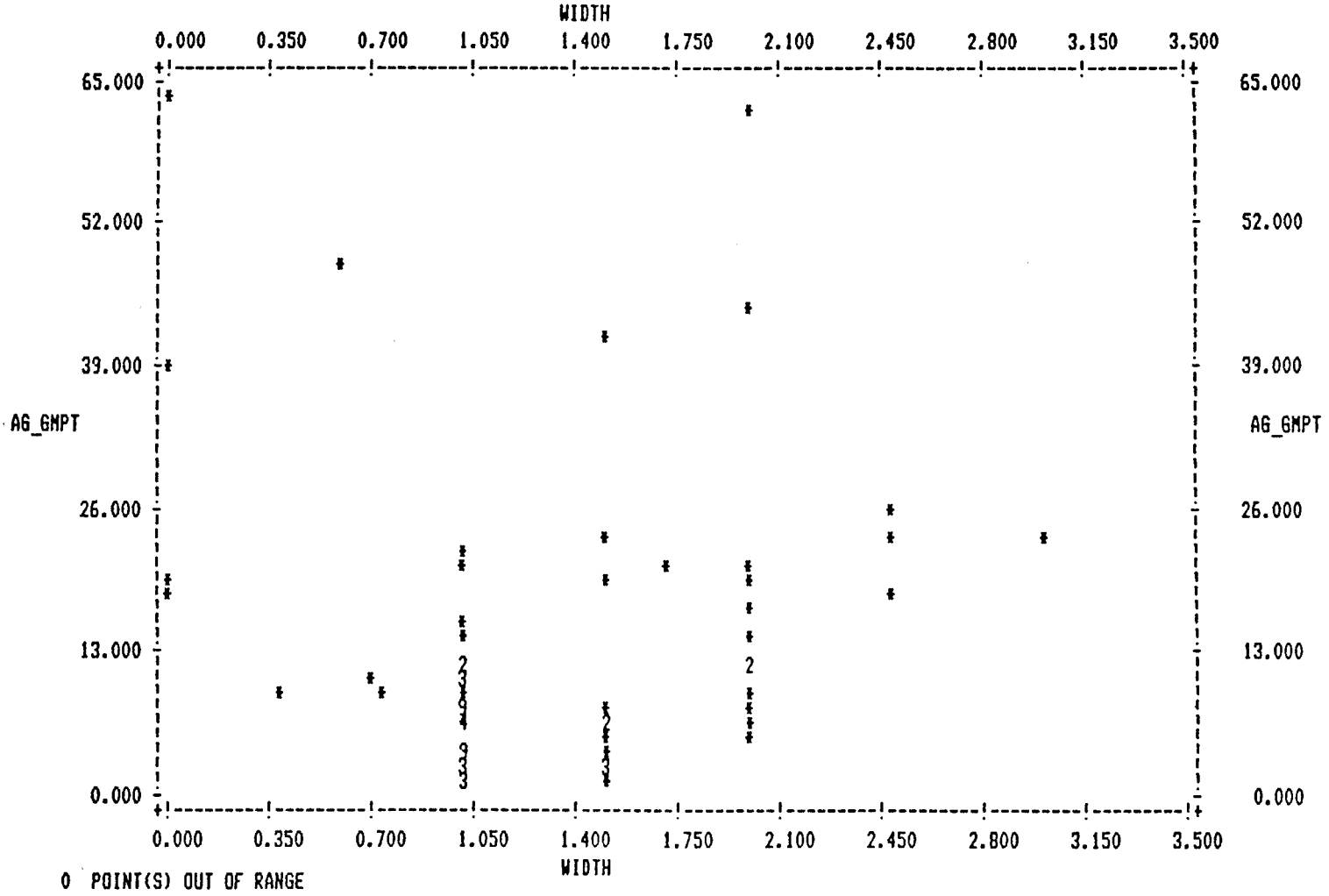


0 POINT(S) OUT OF RANGE

STATISTICS FOR VARIABLES:	WIDTH	AU_GMPT
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.00	0.02
MAXIMUM:	3.00	51.75
MEAN:	1.26	4.17
STANDARD ERROR OF MEAN:	0.07	1.05
STANDARD DEVIATION:	0.59	9.09
COEFFICIENT OF VARIATION:	46.76	217.94
SKEWNESS:	0.39	3.22
URTOSIS:	0.41	10.85

CORRELATION COEFFICIENT: -0.0571

VELVET ASSAYS



STATISTICS FOR VARIABLES:	WIDTH	AG_GMPT
NUMBER OF OBSERVATIONS:	75	75
MINIMUM:	0.00	0.80
MAXIMUM:	3.00	64.00
MEAN:	1.26	12.86
STANDARD ERROR OF MEAN:	0.07	1.50
STANDARD DEVIATION:	0.59	12.97
COEFFICIENT OF VARIATION:	46.76	100.86
SKEWNESS:	0.39	2.16
URTOSIS:	0.41	4.83

CORRELATION COEFFICIENT: 0.0513

APPENDIX IV

SURFACE SAMPLE DESCRIPTIONS AND RESULTS

1989 SURFACE SAMPLES

SAMPLE NUMBER	DESCRIPTION	Cu	Au	Ag
BCS 17426	Portland shaft dump	2.6%	5.40 g/t	24.6 g/t
BCS 17427	trench/stope on surface south of main shaft (Main Vein?)	978 ppm	245 ppb	1.1 g/t
BCS 17428	Same as 427	0.7%	610 ppb	1.4 g/t
BCS 17429	Same as 427	1.02%	2.2 g/t	11.4 g/t
BCS 17430	pit/shaft East of main shaft (Coryell Dyke)	315 ppm	5ppb	2.1 g/t
BCS 17431	Same as 430 (Velvet Vein?)	1765 ppm	35.2 g/t	17.4 g/t
BCS 15926	Trench in road cut cut S of VE-03 (alt'd monz?)	533 ppm	245 ppb	15.4 g/t
BCS 15927	Same as 15926 (unaltered monz? host)	35 ppm	5 ppb	0.6 g/t
BCS 15928	trench W of main road on E side of Portland Claim (altered volcs/serp?)	0.6%	462 ppb	2.9 g/t
BCS 15929	Same as 928	545 ppm	4 ppb	1.0 g/t
BCS 15930	o/c on 8th level adit road (sheared, alt'd coryell)	355 ppm	1 ppb	8.9 g/t
BCS 15931	Same as 15930	1350 ppm	123 ppb	72.5 g/t
BCS 15932	Same as 15930	30 ppm	5 ppb	1.3 g/t
BCD 17967	Portland shaft dump	1.36%	19 g/t	18.4 g/t
BCD 17968	Portland shaft dump	1.26%	10.76 g/t	19.9 g/t

APPENDIX V

ANALYTICAL RESULTS - UNDERGROUND SAMPLES

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TIMMINS OFFICE:
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P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0841-RA1

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-14-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 3 ROCK samples submitted AUG-08-89 by G.EVANS.

Sample Number		CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD17967	Portland	1.360	.02	.02	18.4	.54	19.00	.554
BCD17968	Portland	1.260	.03	.01	19.9	.58	10.76	.314
BCD17969	7th Grab	9.580	.02	.01	39.0	1.14	11.1[illegible]	.326

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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0947-RG3

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-29-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Geochemical Analysis of 21 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number		CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCS17433	7th	61	16	11	0.9	2
BCS17435		27	13	16	1.1	1
BCS18241	7th	47	21	13	1.2	5
BCS18242		16	22	12	0.9	2
BCS18266		94	27	17	1.3	2
BCS18267	7th	39	30	17	1.5	1
BCS18268		38	17	8	0.9	4
BCS18269		39	30	30	1.4	2
BCS18277	8th	13	17	10	0.7	3
BCS18283		36	11	14	0.4	9
BCS18288	7th	4365	23	85	4.2	245
BCS18291		4175	27	66	6.9	680
BCS18293		375	51	52	5.6	503
BCS18302		362	15	32	1.1	38
BCS18303		1950	17	68	2.9	79
BCS18304	7th	1195	183	89	3.0	245
BCS18305		37	30	15	1.2	14
BCS18306		38	19	44	1.5	1280
BCS18316		57	20	87	1.5	193
BCS18319		47	22	11	0.8	5
BCS18322		1315	17	63	2.0	82

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

bb.da-1 9V-0947-RA1

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-28-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS17437 7th	1.980	.01	.01	13.8	.40	4.10	.120
BCS17441	1.510	.01	.02	10.2	.30	.66	.019
BCS18226	.785	.01	.01	6.6	.19	.46	.013
BCS18227	.448	.01	.02	4.5	.13	.25	.007
BCS18228	.583	.01	.01	6.9	.20	1.43	.042
BCS18229	.800	.01	.01	7.0	.20	.79	.023
BCS18230	1.200	.01	.01	8.4	.25	.52	.015
BCS18231	.698	.01	.02	7.7	.22	.40	.012
BCS18232	.071	.01	.02	3.6	.11	.02	.001
BCS18233 7th	.193	.01	.01	2.4	.07	.07	.002
BCS18234	.990	.01	.02	7.8	.23	2.15	.063
BCS18235	2.490	.01	.01	11.2	.33	1.20	.035
BCS18236	1.420	.01	.01	7.7	.22	2.59	.076
BCS18243	.032	.01	.01	0.8	.02	.02	.001
BCS18245	.075	.01	.01	2.5	.07	.03	.001
BCS18246	.460	.01	.01	4.1	.12	.50	.015
BCS18247	.502	.01	.01	8.3	.24	.70	.020
BCS18248	1.730	.01	.01	7.7	.22	1.32	.039
BCS18249	.820	.01	.01	6.2	.18	.78	.023
BCS18250	.252	.01	.01	3.6	.11	.82	.024
BCS18251	.560	.01	.01	4.5	.13	4.71	.137
BCS18252	1.120	.01	.01	4.3	.13	.25	.007
BCS18253	2.590	.01	.01	12.0	.35	.32	.009
BCS18254 7th	1.080	.01	.01	8.4	.25	1.06	.031
BCS18255	2.370	.01	.01	15.8	.46	.46	.013
BCS18256	.790	.01	.01	7.5	.22	.39	.011
BCS18257	1.810	.01	.01	9.7	.28	.98	.029
BCS18258	.163	.01	.01	1.9	.06	.21	.006
BCS18259	.228	.01	.01	1.8	.05	.05	.001
BCS18260	.232	.01	.01	[illegible]	.06	.22	.006

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA2

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-29-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS18261	.382	.01	.01	2.2	.06	.18	.005
BCS18262	.930	.01	.01	5.7	.17	.17	.005
BCS18263	.196	.01	.01	1.8	.05	.19	.006
BCS18264	.294	.01	.01	2.2	.06	.18	.005
BCS18265	.443	.01	.01	3.6	.11	.19	.006
BCS18270	.235	.01	.01	3.1	.09	.03	.001
BCS18271	.650	.01	.02	6.5	.19	.18	.005
BCS18272	4.820	.01	.03	23.4	.68	2.06	.060
BCS18273	.940	.01	.02	7.5	.22	.24	.007
BCS18274	.800	.01	.01	4.8	.14	.18	.005
BCS18289	.920	.01	.02	6.3	.18	.27	.008
BCS18290	10.950	.01	.01	62.0	1.81	33.00	.963
BCS18292	.990	.01	.01	8.6	.25	7.31	.213
BCS18294	1.240	.01	.02	19.8	.58	31.00	.904
BCS18311	1.930	.01	.01	11.6	.34	3.48	.102
BCS18312	3.280	.01	.01	14.3	.42	3.78	.110
BCS18313	1.940	.01	.01	9.7	.28	.59	.017
BCS18314	4.160	.01	.07	25.4	.74	29.40	.858
BCS18315	4.550	.01	.03	64.0	1.87	51.75	1.509
BCS18321	2.120	.01	.02	20.5	.60	27.40	.799
BCS18323	7.900	.01	.02	41.8	1.22	11.00	.321
BCS18324	1.390	.01	.01	9.9	.29	1.50	.044
BCS18325	5.720	.01	.01	44.3	1.29	3.74	.109
BCS18326	4.090	.02	.02	20.8	.61	1.16	.034
BCS18327	2.010	.01	.01	12.2	.36	.82	.024
BCS18328	1.420	.01	.02	10.6	.31	.80	.023
BCS18330	1.730	.01	.01	9.4	.27	.46	.013
BCS18331	.625	.01	.01	4.2	.12	.07	.002
BCS18332	3.500	.01	.01	24.0	.70	11.11	.324
BCS18333	2.920	.01	.01	17.6	.51	1.02	.030

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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA3

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 9 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS18334	.724	.01	.02	7.2	.21	.28	.008
BCS18335	3.110	.01	.02	20.4	.60	1.04	.030
BCS18336	3.030	.01	.01	22.5	.66	4.43	.129
BCS18337	.417	.01	.02	6.4	.19	3.59	.105
BCS18338 7th	2.100	.01	.01	16.9	.49	1.11	.032
BCS18339	1.870	.01	.02	19.8	.58	.41	.012
BCS18340	4.320	.01	.01	23.0	.67	2.22	.065
BCS18341	9.980	.01	.01	47.6	1.39	4.50	.131
BCS18342	.916	.01	.01	8.1	.24	.35	.010
BCS17440 - 7th	1.590	.01	.02	10.2	.30	.41	.012

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA4

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number		LOI %
BCS17426	surface	7.00
BCS17427		5.20
BCS17428		4.65
BCS17429		5.60
BCS17430		2.75
BCS17431		7.30
BCS17432	7th	4.60
BCS17434		4.60
BCS17436		2.35
BCS17438		12.20
BCS17439		7.30
BCS18237	7th	27.30
BCS18238		15.60
BCS18239		3.55
BCS18240		2.75
BCS18244		13.70
BCS18275		12.50
BCS18276	8th	1.90
BCS18278		4.50
BCS18279		4.75
BCS18280		6.60
BCS18281		3.60
BCS18282		6.90
BCS18284		29.70
BCS18285		5.40
BCS18286		1.85
BCS18287		3.95
BCS18301	7th	1.95
BCS18307		23.10
BCS18308		24.50

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TIMMINS OFFICE:
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA5

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 6 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	LOI %
BCS18309	16.00
BCS18310	1.95
BCS18317	3.40
BCS18318	16.10
BCS18320	22.40
BCS18329	14.90

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA6

Company: MINNOVA INC.,
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 4 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	AU G/TONNE	AU OZ/TON
BCS17426	5.40	.158
BCS17430	2.22	.065
BCS17431	35.20	1.027
BCS18306	1.39	.041

Surface

Certified by

MIN-EN LABORATORIES

COMP: MINNOVA INC.
PROJ: 659
ATTN: I.PIRIE/G.EVANS

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 9V-0947-RJ1+2
DATE: AUG-31-89
* TYPE ROCK GEOCHEM *, (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
BCS17426	24.6	9	19	25881	89	28	122	5100
BCS17427	1.1	1	44	978	48	1	154	245
BCS17428	1.4	1	89	6644	32	4	76	610
BCS17429	11.4	19	47	10191	30	13	82	2150
BCS17430	2.1	27	67	315	33	2	39	5
BCS17431	17.4	44	73	1765	35	1	35	24000
BCS17432	.9	4	63	106	29	1	45	30
BCS17434	1.0	6	84	43	39	1	56	30
BCS17436	.9	21	45	59	19	1	37	5
BCS17438	2.1	1	956	554	77	9	96	10
BCS17439	1.6	5	1223	301	52	2	79	5
BCS18237	1.6	1	39	53	85	16	16	5
BCS18238	1.7	1	16	39	109	33	27	5
BCS18239	.4	11	61	125	37	1	55	10
BCS18240	1.3	1	43	30	78	18	23	180
BCS18244	1.3	1	8	16	110	31	37	5
BCS18275	1.2	23	43	13	33	1	55	15
BCS18276	.9	23	55	47	17	1	38	5
BCS18278	.5	5	99	325	25	16	46	10
BCS18279	3.0	14	899	57	57	7	77	5
BCS18280	2.3	3	102	36	22	4	93	5
BCS18281	2.0	18	194	194	37	1	87	5
BCS18282	.8	17	65	33	47	1	109	40
BCS18284	2.0	1	55	32	79	23	26	5
BCS18285	2.0	13	291	85	43	2	87	5
BCS18286	.7	17	17	30	11	1	29	5
BCS18287	.9	6	61	14	20	1	74	5
BCS18301	.4	15	49	15	10	1	40	5
BCS18307	.9	1	11	30	93	22	19	20
BCS18308	1.0	1	13	150	93	28	17	5
BCS18309	1.1	1	8	142	90	38	24	15
BCS18310	.7	21	113	29	29	1	48	5
BCS18317	2.4	10	801	84	56	1	101	5
BCS18318	1.2	14	30	10	58	17	16	5
BCS18320	1.1	1	12	98	79	22	18	5
BCS18329	1.6	1	38	595	86	18	32	5

COMP: MINNOVA INC.
PROJ: 659
ATTN: I.PIRIE/G.EVANS

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 9V-0947-RL2+Z2
DATE: AUG-31-89
* TYPE ROCK GEOCHEM * (ACT:FIRE)

SAMPLE NUMBER	AL2O3 %	BAT %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SIO2 %	TIO2 %	S %	TOT(%)
BCS17426	11.49	.010	.38	14.33	1.89	5.90	.11	.13	.18	55.24	.31	3.50	93.47
BCS17427	16.84	.015	.22	16.02	2.35	6.79	.15	.15	.21	50.51	.36	.02	93.64
BCS17428	17.19	.040	.33	9.63	4.15	1.55	.10	.23	.10	60.26	.37	.04	93.99
BCS17429 surface	11.81	.025	.12	25.23	3.37	1.59	.06	.25	.22	49.53	.30	1.36	93.87
BCS17430	17.07	.135	3.13	4.73	4.99	1.77	.10	5.40	.15	58.03	.63	.08	96.21
BCS17431	13.17	.030	.03	16.42	4.05	1.29	.03	.18	.14	56.08	.35	.18	91.94
BCS17432	17.60	.045	3.72	4.25	2.20	3.06	.07	3.74	.15	59.20	.38	.03	94.44
BCS17434 7th	17.90	.070	2.02	3.94	4.23	3.50	.09	3.18	.14	58.88	.39	.04	94.36
BCS17436	17.43	.090	2.07	2.97	5.52	.82	.07	4.80	.09	62.48	.30	.12	96.78
BCS17438	12.35	.120	7.74	12.03	1.52	11.25	.19	.33	.35	39.89	.92	.07	86.75
BCS17439	15.01	.195	5.46	6.05	3.51	5.33	.13	2.74	.20	52.04	.81	.12	91.60
BCS18237	.50	.005	8.62	3.52	.43	28.64	.22	.08	.43	28.88	.01	.01	71.35
BCS18238 7th	.30	.010	1.69	6.91	.54	35.61	.11	.10	.39	37.03	.01	.08	82.78
BCS18239	17.03	.105	1.31	8.40	5.38	3.23	.08	1.21	.14	58.48	.37	.06	95.80
BCS18240	.67	.010	7.14	10.34	.74	35.88	.17	.14	.51	39.80	.01	.04	95.45
BCS18244	.67	.010	.66	7.72	.33	36.34	.08	.06	.38	38.33	.01	.06	84.70
BCS18275	13.27	.030	12.92	5.02	2.63	2.85	.18	.56	.27	48.84	.30	.05	86.92
BCS18276	17.66	.090	2.13	2.76	5.65	.91	.07	4.82	.10	62.63	.29	.06	97.17
BCS18278	18.57	.055	1.56	6.14	4.04	2.42	.05	.37	.11	61.04	.40	.05	94.81
BCS18279	15.61	.150	5.46	6.62	3.79	5.68	.11	3.29	.22	52.32	.90	.12	94.27
BCS18280	15.74	.145	6.41	6.88	3.35	6.49	.14	3.04	.24	49.37	.71	.09	92.68
BCS18281 8th	16.77	.110	3.73	5.65	4.07	3.30	.09	3.64	.17	57.27	.77	.22	95.78
BCS18282	16.77	.045	4.48	6.19	3.03	3.06	.15	.51	.18	57.59	.38	.63	93.00
BCS18284	.73	.010	16.09	6.21	.01	22.19	.15	.01	.46	22.92	.01	.01	68.77
BCS18285	16.63	.100	6.53	7.29	1.91	4.65	.13	3.40	.22	51.68	.94	.12	93.60
BCS18286	16.07	.035	1.31	2.29	4.42	.46	.05	4.84	.06	67.45	.22	.04	97.26
BCS18287	18.13	.045	3.60	4.00	1.07	1.80	.09	4.43	.12	61.48	.41	.01	95.20
BCS18301	18.07	.035	6.70	4.08	1.01	1.44	.11	4.24	.13	60.79	.40	.01	97.07
BCS18307	.32	.010	1.26	9.47	.01	31.18	.12	.01	.34	32.89	.01	.01	75.62
BCS18308	.23	.010	.43	6.39	.01	33.46	.16	.01	.34	32.97	.01	.02	74.02
BCS18309 7th	.31	.010	1.76	10.47	.01	34.54	.16	.01	.44	34.20	.01	.04	81.94
BCS18310	16.85	.100	1.71	2.92	5.00	1.39	.07	4.81	.10	63.65	.29	.05	96.95
BCS18317	14.81	.160	4.17	6.38	3.84	5.29	.13	2.88	.20	57.05	.88	.08	95.86
BCS18318	.48	.010	7.27	6.91	.01	24.53	.09	.15	.40	42.53	.01	.24	82.64
BCS18320	.32	.005	1.34	8.13	.49	29.83	.12	.13	.37	35.38	.01	.02	76.14
BCS18329 4th	.33	.010	2.67	11.57	.98	28.74	.12	.13	.41	38.84	.01	.08	83.88

MINERAL • ENVIRONMENTS LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 985-0524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0996-RG2

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: SEP-01-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number		CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCS15928	surface	5950	10	61	2.9	462
BCS15929	surface	545	14	45	1.0	4
BCS15930	surface	355	620	2630	8.9	1
BCS15931	surface	1350	26000	2140	72.5	123
BCS17451		2150	185	137	4.3	386
BCS17452	8th	8200	620	152	17.5	425
BCS17453	8th	135	38	49	1.5	81
BCS17454	8th	34	22	18	0.8	3
BCS17458	8th	15	16	17	0.6	2
BCS17462	8th	22	17	54	0.7	19
BCS17463	8th	47	18	37	0.8	10
BCS17465	8th	4050	18	71	7.0	880
BCS17466	8th	25	15	45	0.6	2
BCS17472	8th	970	38	100	4.3	332
BCS17473	8th	45	24	30	0.5	35
BCS17474	8th	225	30	38	1.1	29
BCS17475	8th	37	16	34	0.6	13
BCS17480	4th	7	10	35	0.5	1
BCS17481	4th	8	15	37	0.6	2
BCS17485	4th	81	10	36	0.6	11
BCS17486	4th	195	11	40	1.4	213
BCS17488	4th	3300	16	71	2.4	1520
BCS17526	8th	46	14	24	0.7	16
BCS17528	8th	27	12	60	0.8	4
BCS17529	8th	11	10	45	0.5	2
BCS17534	4th	25	20	52	0.8	3
BCS17535	4th	87	10	39	0.8	6
BCS17536	4th	41	18	50	0.7	37
BCS17537	4th	17	16	15	0.7	2
BCS17539	4th	15	10	31	0.5	5

Certified by _____

MIN-EN LABORATORIES

MINERAL • ENVIRONMENTS LABORATORIES [redacted].

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0996-RG3

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: SEP-01-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Geochemical Analysis of 2 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCS17540 } 4th	29	16	40	0.7	2
BCS17541 }	1070	10	81	1.2	2

Certified by _____

MIN-EN LABORATORIES

MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 930-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0996-RA1

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: SEP-02-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 2 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS17484 } 4th	.455	.01	.01	3.8	.11	.69	.020
BCS17487 }	.279	.01	.01	4.2	.12	2.21	.064

Certified by _____

MIN-EN LABORATORIES

MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0996-RA2

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: SEP-01-89

Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 1 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number	AU G/TONNE	AU OZ/TON
BCS17488 -4m	1.62	.047

Certified by

MIN-EN LABORATORIES

MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0996-RA3

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: SEP-07-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 27 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number		LOI %
BCS15926	surface	5.40
BCS15927	surface	1.60
BCS15932	surface	2.95
BCS15955		6.90
BCS15956		4.90
BCS15957	8th	21.60
BCS15959	8th	3.70
BCS15960	8th	3.80
BCS15961	8th	2.60
BCS15964	8th	5.40
BCS15967	8th	7.00
BCS15968	8th	3.70
BCS15969	8th	5.50
BCS15970	8th	3.70
BCS15971	8th	3.30
BCS15976	4th	2.50
BCS15977	4th	3.90
BCS15978	4th	2.50
BCS15979	4th	3.80
BCS15982	4th	2.80
BCS15983	4th	4.50
BCS17970	surface	4.55
BCS17971	surface	1.05
BCS17527	8th	3.30
BCS17531	8th	4.20
BCS17533	8th	3.70
BCS17538	-4th	4.00

Certified by _____

MIN-EN LABORATORIES

COMP: MINNOVA INC.
PROJ: 659
ATTN: I.PIRIE/D.HEBERLEIN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 9V-0996-RJ1
DATE: SEP-07-89
* TYPE ROCK GEOCHEM *. (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
BCS15926 surface	15.4	1	38	533	31	1	45	245
BCS15927 surface	.6	11	102	35	27	1	48	5
BCS15932 surface	1.3	7	267	30	57	2	1720	5
BCS17455	1.6	11	423	42	45	2	84	5
BCS17456	.8	7	52	14	17	1	54	5
BCS17457	1.2	1	49	19	74	17	17	10
BCS17459	1.3	2	76	13	34	1	75	5
BCS17460	.9	1	41	13	16	1	45	5
BCS17461 8th	1.9	22	490	34	57	2	46	5
BCS17464 8th	.5	14	49	4	13	1	36	10
BCS17467	.6	14	75	17	19	1	60	20
BCS17468	1.8	17	407	22	44	2	47	15
BCS17469	.6	1	63	42	19	1	46	5
BCS17470	.4	1	60	4	20	1	51	5
BCS17471	.5	1	64	24	15	1	53	5
BCS17476	.8	1	46	11	11	1	58	5
BCS17477	2.4	28	400	31	53	5	52	5
BCS17478 4th	2.2	4	166	36	39	2	76	5
BCS17479 4th	2.3	6	88	24	36	1	98	5
BCS17482 4th	1.6	3	59	11	24	1	77	20
BCS17483	1.0	5	66	553	16	1	39	215
BCS17970 surf	1.4	1	7	49	131	38	35	5
BCS17971 surf	.5	4	21	13	118	1	98	10
BCS17527 8th	.5	6	29	4	17	1	42	5
BCS17531 8th	2.1	19	344	33	40	3	85	5
BCS17533	2.0	10	151	23	35	2	69	5
BCS17538 - 4th	1.6	12	49	82	105	2	93	5

COMP: MINNOVA INC.
PROJ: 659
ATTN: I.PIRIE/D.HEBERLEIN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 9V-0996-RL1
DATE: SEP-07-89
* TYPE ROCK GEOCHEM * (ACT:FIRE)

SAMPLE NUMBER	AL2O3 %	BAT %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SIO2 %	TIO2 %	S %	TOT(%)
BCS15926 surface	16.98	.025	.24	6.51	3.73	4.82	.04	.18	.14	60.34	.45	.01	93.47
BCS15927 surface	17.55	.140	.88	4.33	6.15	1.90	.07	3.75	.09	61.73	.62	.08	97.30
BCS15932 surface	16.86	.150	1.30	5.21	5.35	2.80	.29	3.44	.13	59.83	.73	.07	96.16
BCS17455	14.54	.100	6.68	7.49	1.62	4.75	.13	3.09	.25	52.56	.77	.18	92.18
BCS17456	17.65	.050	4.68	4.36	1.57	1.84	.09	3.90	.14	59.47	.38	.09	94.23
BCS17457	.60	.005	3.79	5.77	.01	29.72	.11	.01	.40	36.81	.01	.16	77.37
BCS17459	16.98	.095	4.67	5.41	2.06	2.77	.11	3.53	.19	58.71	.78	.08	95.38
BCS17460	17.82	.035	5.23	4.39	1.22	2.23	.09	3.94	.16	59.66	.40	.12	95.29
BCS17461 8th	16.10	.145	4.33	5.57	4.61	3.09	.12	4.28	.18	57.16	.76	.13	96.48
BCS17464	17.93	.045	4.34	4.28	2.85	1.58	.10	3.10	.15	58.94	.41	.07	93.79
BCS17467	17.22	.050	5.93	3.88	2.07	1.67	.11	3.47	.16	56.97	.39	.13	92.06
BCS17468	16.04	.140	4.77	5.09	4.57	2.71	.11	4.28	.17	56.75	.72	.12	95.46
BCS17469	17.58	.070	4.67	4.01	3.60	1.61	.10	3.08	.14	58.14	.43	.04	93.47
BCS17470	18.26	.060	1.92	4.30	2.65	2.53	.10	4.07	.13	61.15	.43	.02	95.61
BCS17471	18.55	.060	3.50	4.16	2.77	1.57	.11	3.17	.13	61.16	.42	.04	95.65
BCS17476	18.18	.055	5.64	4.39	1.08	1.50	.12	3.84	.17	61.15	.40	.08	96.61
BCS17477	15.71	.155	5.35	5.59	4.59	3.08	.13	3.85	.20	55.92	.77	.13	95.47
BCS17478 4th	16.09	.130	5.44	6.62	4.76	5.83	.14	3.00	.22	53.48	.71	.12	96.56
BCS17479 4th	16.49	.150	6.85	6.35	2.21	3.30	.12	2.93	.23	55.62	1.08	.17	95.51
BCS17482	17.14	.095	5.46	5.65	2.25	2.28	.12	3.51	.19	58.71	.78	.07	96.25
BCS17483	17.17	.055	4.33	5.24	2.89	1.70	.10	2.92	.16	59.71	.40	.04	94.71
BCS17970 surf	.46	.005	.29	8.75	.19	41.88	.15	.06	.46	41.37	.01	.01	94.12
BCS17971 surf	17.30	.030	.82	2.97	7.18	.53	.11	5.21	.08	63.60	.29	.02	98.15
BCS17527 8th	18.04	.030	4.71	5.06	2.74	2.28	.12	3.17	.17	58.97	.42	.10	95.82
BCS17531 8th	16.37	.120	4.53	5.35	5.56	3.49	.13	3.32	.17	54.89	.71	.09	94.74
BCS17533	16.35	.105	4.10	5.53	5.14	3.12	.12	3.82	.16	56.03	.76	.08	95.32
BCS17538 -4th	13.01	.050	4.07	7.99	2.01	2.56	.15	1.36	.18	63.35	.34	.50	95.57

APPENDIX VI

DIAMOND DRILL LOGS

HOLE NUMBER: VEL-01

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: VELVET
PROJECT NUMBER: 659
CLAIM NUMBER:
LOCATION:

PLOTTING COORDS GRID:
NORTH: 75.00N
EAST: 85.00W
ELEV: 1085.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: 45° 0' 0"
LENGTH OF THE HOLE: 248.50m
START DEPTH: 3.00m
FINAL DEPTH: 251.50m

COLLAR GRID AZIMUTH: 90° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: ° ' "

DATE STARTED: October 1, 1989
DATE COMPLETED: October 5, 1989
DATE LOGGED: October 2, 1989

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: Lone Ranger
CASING: 3.0 m
CORE STORAGE: Bob Voight's property

PURPOSE: To test the Velvet vein near the 705 stope area and any veins to the east of it.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
96.30	-	-44° 0'	ACID	OK		-	-	-	-	-	
169.50	-	-45° 0'	ACID	OK		-	-	-	-	-	
200.00	-	-44° 0'	ACID	OK		-	-	-	-	-	
251.50	-	-45° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.00	«CASING»					
3.00 TO 17.50	«MONZONITE»	Colour: pale grey Grain Size: medium grained -massive, fresh intrusive 50-60% sub-euhedral white feldspars, <1 - 4 mm in size, average 2 mm; 5-10% fine mafics; 35-40% fine grained pale grey gmass -feldspars may be zoned -weakly magnetic		-weak ep. alteration increasing downwards to lower contact (as irreg. patches veinlets and replacing feldsp) -very minor irregular late fng dark grey alt'n envelopes to 1 cm in width (less than 1% of interval) 17.48-17.50 -2 cm silic, carb altered zone above contact		3.0-8.6 Box 1 3.0-7.0 -broken core: 60% recovery 8.6-14.0 Box 2 7.0-17.5 -good core: 95% recovery 14.0-19.5 Box 3
17.50 TO 19.50	«LAMPROPHYRE DYKE»	Colour: dark grey Grain Size: fine -massive, fresh dike, 15-20% subeuhedral px (avg 2 mm), 10% white subhedral feldsp (avg 1mm) in fng dark grey gmass -sharp contact above and below -upper contact -weakly magnetic	90			17.5-19.5 -massive core, v. good recovery: >95%
19.50 TO 22.20	«MONZONITE»	Colour: med grey Grain Size: medium -massive weakly altered monzonite intrusive as in 3.0-17.5		-patchy weak hem-ep alteration (hem matrix, ep feldspars) -v. minor qtz and cc stringers		19.5-23.5 Box 4 19.5-22.2 -massive core, >95% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
22.20 TO 24.00	«LAMPROPHYRE DYKE»	Colour: dark grey Grain Size: fine -as in 17.5-19.5 -v. sharp contacts with mozonite at 30 deg to c.a.				22.2-24.0 -massive core, >95% recovery
24.00 TO 38.40	«MONZONITE»	Colour: pale grey Grain Size: medium 24.0-31.0 -massive fresh monzonite as in 3.0-17.5 31.0-37.3 -60% of interval is coarse monzonite as above but ep/hem altered, 40% is fng dark grey px phyric -upper contact v. sharp, elsewhere contact grad = fng alterd phase of monzonite contact 37.3-38.4 -massive fresh grey monzonite as in 3.0-17.5	45	{24.0-31.0} -«weak-mod ep alteration», replacing feldsp and as irregular patches and veinlets 31.0-37.3 -minor patchy silic'n and quartz veinlets -weak ep alteration of feldsp, 2 as veinlets -local patchy hem altered matrix 37.3-38.4 -v. weak ep alteration		24.0-38.4 -massive core, 95% recovery 25.3-30.5 Box 5 30.5-35.9 Box 6 35.9-41.5 Box 7
38.40 TO 43.30	«SYENITE»	Colour: pale pinkish brown Grain Size: medium -20% subhedral Kspar phenos, 2-8 mm, avg 4 mm, 5% euhedral plag, avg 5 mm length, 10% subhedral px, avg 2 mm in fng pinkish brown gmass -weakly magnetic -grades to grey-green colour near lower contact sharp contacts upper contact lower contact	60 60	-v. weak ep alteration (mainly replacing plag cores)	{38.4-38.41} -«10-15% diss py» over 1 cm interal at upper contact	-38.4-43.3 -massive, >95% recovery 41.5-46.9 Box 8
43.30 TO 45.90	«ALTERED MONZONITE»	Colour: dark grey green Grain Size: fine -dark grey green fine grained altered monzonite?		-weak chl alteration, locally silic		43.3-45.9

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		locally contains 15-20% anhedral px phenos, weak banding d.t. alteration -contain indistinct intervals of coarser grained intrusive, resembling monzonite -contacts gradational -non magnetic banding	60	-minor carb veining		-core broken but good recovery 90%
45.90 TO 52.90	«MONZONITE»	Colour: pale grey Grain Size: medium 45.9-50.0 -massive fresh monzonite as in 3.0-17.5 50.0-51.3 -gradational contact into dark grey, fng -weakly feldsp phyric volc? or alt'd monz? -resembles unit in 43.3-45.9 -non magnetic 51.3-52.9 -gradational contact into unalt'd monzonite		45.9-50.0 -weak ep alteration 50.0-51.3 -weak ep alteration -mod carb alteration as stringers -weak pervasive chl alteration and silic'n 51.3-52.9 -weak ep, silc, carb	51.3-52.9 -v. minor diss py	45.9-50.6 -good massive core, recovery >95% 46.9-52.8 Box 9 50.6-50.9 -60% recovery 50.9-52.9 -90% recovery
52.90 TO 53.60	«MAFIC DYKE»	Colour: dark grey green Grain Size: fine -fine grained mafic volc (andesite) - may be weakly px-felds phyric (1 mm) weak banding d.t. colour variation banding sharp irreg. contact	50 60			52.9-53.6 -massive core >95% recov. 52.8-57.8 Box 10
53.60 TO 84.50	«MONZONITE»	Colour: grey Grain Size: medium 53.6-56.4 -monzonite as before but with 30% dark grey bands, as alteration envelopes adjacent to fracs (to [illegible]		{53.6-77.5} «mod-strong ep alt'n» 53.6-56.4 -mod ep alteration as veinlets and repl felsp, minor carb stringers	{54.[illegible]-76.4} -«2% py, spec hem, mag, minor cpy»	53.6-60.0 -massive broken core 95% recov. -mineralization assoc. with fng, dark

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		cm wide) and as broad bands to 10 cm wide.			in narrow veinlets with ep and cc	grey alteration of monzonite
		banding	60			57.8-63.4 Box 11
		56.4-59.8 -fine grained dark grey green altered monzonite?		56.4-59.8 -mod ep and carb stringers		
		59.8-62.2 -monzonite - massive fresh as before		59.8-62.2 -mod ep repl plag and as veinlets		60.0-65.8 -massive broken core, 90% recovery
		62.2-62.5 -px phyric, altered monzonite -gradational into monzonite		62.2-62.5 -mod ep/carb alteration		
		62.5-74.7 -massive fresh monzonite, 50-55% Kspar to 6 mm, avg 2 mm; 15-20% plag, avg 1 mm; 20% grey fng gmass. -same as monz above but less matrix		62.5-74.7 -ep alteration -replacing plag and as narrow veinlets		63.4-68.9 Box 12 62.5-80.7 -massive core, exc recovery >95% 68.9-74.6 Box 13
		74.7-77.5 -monzonite -mod altered with rem text visible - alteration gives weak banded appearance		74.7-77.5 -mod strong ep alteration, replac fsp and as patches and veinlets	74.7-77.5 -1% py as irreg patches along fracs (with ep and cc)	74.6-80.3 Box 14
		banding	50	-local pervasive hem alteration as irreg patches		80.3-85.8 Box 15
		77.5-78.0 -v. fine grained grey-greeen m. volc?/alt'd monz		-minor carb veinlets		80.7-81.2 -broken, 60% recovery
		78.0-84.5 -med grey monzonite as in 62.5-74.7		78.0-84.5 -v. weak ep alteration -v. minor grey alteration envelopes on fracs		81.2-84.5 -massive core, 95% recovery
84.50 TO 85.10	«LAMPROPHYRE DYKE»	Colour: dark grey green Grain Size: fine -15% fine mafics (px + bi) -10% fine feldspar in dark grey green mafic rich gmass		-v. minor carb stringers	-«5-10% fine diss py»	-80% recovery
		sharp lower contact	60			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
85.10 TO 88.20	«MAFIC VOLCANIC»	Colour: grey green Grain Size: fine -10% acicular px phenos to 3 mm, locally 10% fine feldspar phenos in fng gmass (Elise volcanics) sharp, irreg. lower contact	45		-minor py - disseminated with carb in stringers	85.8-91.4 Box 16
88.20 TO 98.80	«MONZONITE»	Colour: grey green Grain Size: medium -monzonite as in 62.5-74.7		-«mod ep alt'n», repl feldsp and as veinlets and patches -v. minor local hem alteration		88.2-98.8 -massive core, 95% recovery 91.4-97.0 Box 17
98.80 TO 114.70	«MAFIC VOLCANIC»	Colour: dark grey green Grain Size: fine 98.8-104.0 -fng mafic volcanic, 20% anhedral px phenos avg 3 mm in fng dark grey-green gmass -locally fine feldspar phenos -mineralization bands 30-50 deg to c.a. 104.0-104.8 -gradational contacts into coarser grained monzonite (dyke?) 104.8-108.7 -px -phyric volc as above -mineralization 30-50 deg to c.a. {108.7-109.7} -«Fault Zone» -broke , bx volcanics in green gouge matrix		98.8-104.0 -mod-weak ep alteration -minor patchy pervasive hem alteration -weakl chl alteration 104.8-108.7 -weak - mod chl alteration	{98.8-104.0} -«2% py, spec hem and mag» as frac controlled mineralized stringers and bands of massive mineralization to 8 cm {103.4-103.5} -«10 cm sulph vein with 60% spec hem, 10% py, 2% cpy» {104.8-108.7} -«2% py, spec hem and mag» as frac controlled mineralization and bands to 1 cm -minor cpy 108.3 -also diss py	97.0-102.6 Box 18 98.8-104.0 -massive, broken core 85% recovery 104.0-104.8 -massive core, >95% recovery 104.8-108.7 -broken core, 85% recovery 102.6-108.0 Box 19 108.7-109.7 -v. broken core in fault 60% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		109.7-114.7 -px phyric mafic volcs as above -sharp irregular lower contact with med grained monzonite intrusive		109.7-114.7 -weak chl alteration, mod ep altering feldspars and as veinlets	{109.7-114.7} -«2-4% mag, spec hem>py>cpy» mainly as fract controlled bands to 1 cm width minor diss sulphides and irregular patches	109.7-114.7 -massive core, >95% recovery 108.0-113.5 Box 20
114.70 TO 123.90	«MONZONITE»	Colour: grey green Grain Size: medium 114.7-117.6 -50% of interval is good med gr monzonite as in 62.5-74.7 -other 50% is fng grey-green rx (alt'n of monz??) -contacts indistinct 117.6-123.4 -massive, med grained, monzonite as in 62.5-74.7 pale pink-green colour dt ep/hem alteration -weakly magnetic 123.4-123.9 -dark grey fng feldsp rich intrusive?, cut by fine network of black mineral (mag) -could be altered monzonite adjacent to dyke -Rx strongly magnetic		114.7-117.6 -mod ep alteration, local pervasive hem alteration and weak silic'n 117.6-123.4 -weak to mod ep alteration -mod hem alteration (matrix) -3 cm qtz bx interval at 130.8 m {123.4-123.9} -alteration adjacent to lamp dyke? -«xcutting mag veinlets»	{114.7-117.6} «<1% stringers hem, cpy, py, mag» to 3 mm width 123.4-123.9 -minor py	113.5-119.3 Box 21 114.7-123.9 -massive core >95% recovery 119.3-125.1 Box 22
123.90 TO 125.00	«LAMPROPHYRE DYKE»	Colour: dark grey brown Grain Size: fine -10% biotite, avg 2 mm; 10% feldsp, avg 1 mm; in fng dark grey brown gmass. -fresh massive dyke -mod magnetic sharp contacts	70			123.9-125.0 -massive core, >95% recovery
125.00 TO 134.40	«MONZONITE»	Colour: grey green Grain Size: med 125.0-125.6		{125.0-125.6}	125.0-125.6	125.0-132.5

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-dark grey fng feldsp rich intrusive cut by network of black (mag?) veinlets as in 123.4-123.9 -alteration adjacent to dike 125.6-134.4 -med gr. monzonite as in 62.5-74.7 makes up 70% of interval, 30% of interval is fng grey rx as alteration envelopes avg 1 cm adjcent to fracts and as wider indistinct bands to 30 cm -gradational lower contact with volcanics		-«x-cutting mag veinlets» -alteration adjacent to dyke 125.6-134.4 -mod ep alteration, local weak hem alteration of matrix -minor qtz-carb veinlets	-minor py and cpy {125.6-134.4} -«2-3%» narrow, irregular bands of mineralization «spec hem > mag > py > cpy» -bands to 4 cm width at 55 deg to c.a.	-massive core, v. good recovery >95% 125.1-130.5 Box 23 132.5-134.4 -crushed core, v poor recov = 10% 130.5-137.1 Box 24
134.40 TO 162.50	«MAFIC VOLCANICS»	Colour: grey green Grain Size: fine - medium -varies throughout interval between grey-green fine grained volcanic with 20% anhedral px phenos avg 3 mm and medium grained feldspar porphyritic volc/subvolcanic 40-50% anhedral feldsp, up to 20% px phenos in grey matrix (resembles monzonite but not as fresh looking) -contacts indistinct suggesting not monzonite dykes cutting volc but rather a phase of the volcs -this supported by the fact that the coarser sections are nonmagnetic, as are the finer volcanics, while the monzonite intrusives are weak to moderately magnetic mineralization 40-60 deg to c.a.		-mod ep alteration primarily along fracs and as irregular patches - to a lesser extent replacing feldsp in coarser sections -minor carb stringers	{134.4-135.5} -«5-10%» of interval is bands of mineralization to 5 cm wide «mag > hem > py >> cpy» {135.5-162.5} -«<1%» of interval is diss py and bands of«mag > spec > py >> cpy» to 1 cm wide	134.4-138.5 -massive, broken core 90% recovery 138.5-162.5 -massive core, 95% recovery 137.1-142.7 Box 25 142.7-148.4 Box 26 148.4-154.2 Box 27 154.2-160.0 Box 28 160.0-163.8 Box 29

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
162.50 TO 166.50	«SYENITE DYKE»	Colour: pink Grain Size: medium -15% white feldspar avg 3 mm; 20% mafics (bi + px) avg 2 mm in fng Kspar rich, pink matrix -moderately magnetic				162.5 -massive broken core 90% recovery
166.50 TO 220.50	«MONZONITE»	Colour: lt grey Grain Size: medium 165.5-167.3 -fng darker border phase -mod magnetic (maybe Elise volc wedge?) -very fng dark green matrix 167.3-220.5 -med gr. monzonite, 60% 1-6 mm fsp in a light grey matrix -mod magnetic		165.5-167.3 -fractures with epidote veinlets and blebs 167.3-220.5 -pervasive epidote replacement to fsp -small fracs have fng dark margins at 40-60 deg to c.a. -occasional qtz veinlet	{165.5-167.3} -«2% py» as veinlets and blebs assoc. with ep as well as «2% spec hem» up to 4-5 mm wide 167.3-220.5 -tr py as fracs coatings throughout interval with minor hematite	
220.50 TO 232.20	«LAMPROPHYRE DYKES»	Colour: dark green Grain Size: fine -dark fng matrix -mod magnetic -some sections have 2 mm px xtals -20% and 2 mm fsp xtals -5% 227.3-228.7 -wedge of monzonite intruded by lamp dykes -contacts sharp irregular		-occasional epidote veinlets		
232.20 TO 251.50	«MONZONITE»	Colour: light grey Grain Size: medium -generally a fng matix with 60% 1-3 mm fsp -10% fractures with fng chloritic envelopes avg		-«10-15% epidote» and blebs -also patches of hematite alteration	-avg tr dissemin pyrite in epidote veinlets	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
	E.O.H.	10 cm wide at 60 deg to c.a.		overprint	{239.1-239.5} -avg «2% py, 1% spec hem» -minor hem in a chl frac zone	

Sample	From (m)	To (m)	Length (m)	ASSAYS Cu %	Zn %	Pb %	Ag gm/T	Au gm/t	GEOCHEMICAL Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm	COMMENTS
BCD21455	51.30	52.90	1.60						13	30	58	0.7	10	
BCD21456	54.80	56.40	1.60						109	17	60	0.9	5	
BCD21458	74.77	77.50	2.73						16	14	53	0.8	2	
BCD21459	84.50	85.10	0.60						52	30	138	1.4	6	
BCD21460	98.80	100.00	1.20						14	16	79	0.9	31	
BCD21461	100.00	101.50	1.50						109	21	63	1	12	
BCD21462	101.50	103.00	1.50						335	23	119	1.5	49	
BCD21463	103.00	104.00	1.00						1300	25	62	2.6	400	
BCD21464	104.80	106.80	2.00						47	14	79	1.1	22	
BCD21465	106.80	108.70	1.90						58	13	65	1.1	19	
BCD21466	108.70	109.70	1.00						147	17	63	1.2	18	
BCD21467	109.70	111.20	1.50						500	19	61	1.3	128	
BCD21468	111.20	112.70	1.50						139	14	60	0.9	15	
BCD21469	112.70	114.70	2.00						265	15	57	1	78	
BCD21470	123.40	123.90	0.50						485	19	64	1.3	17	
BCD21472	125.00	125.60	0.60						505	20	58	1.4	65	
BCD21473	125.60	127.10	1.50						410	15	62	1.2	6	
BCD21474	127.10	128.60	1.50						980	14	60	1.7	77	
BCD21475	128.60	130.10	1.50						780	10	41	1.3	40	
BCD21476	130.10	131.60	1.50						164	13	40	1	3	
BCD21477	131.60	134.40	2.80						420	14	43	1.2	2	
BCD21478	134.40	135.50	1.10						2750	35	119	3.9	860	
BCD21481	148.70	150.20	1.50						127	33	60	1.2	49	
BCD21482	165.50	167.30	1.80						250	17	59	1	23	
BCD21486	239.00	239.50	0.50						280	14	98	1.1	7	

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb
BCD21451	9.00	12.00	3.00	17.58	0.045	6.73	4.04	0.88	1.35	0.12	3.73	0.19	60.79	0.4	0.02	95.87	0.2	7	129	5	11	1	47	5
BCD21452	17.50	19.50	2.00	15.3	0.14	6.29	6.21	2.54	4.17	0.11	3.46	0.22	53.6	1.04	0.07	93.15	1.4	1	190	39	46	1	79	5
BCD21453	38.50	41.50	3.00	16.7	0.11	2.78	3.29	4.56	1.27	0.08	4.55	0.11	62.18	0.41	0.08	96.11	0.5	7	76	10	20	1	44	5
BCD21454	43.40	45.90	2.50	17.61	0.045	6.08	4.56	2.73	2.13	0.12	1.35	0.17	57.82	0.42	0.03	93.06	0.7	1	59	17	26	1	65	5
BCD21457	71.00	74.00	3.00	17.95	0.045	6.04	4.09	1.13	1.42	0.12	4.01	0.17	60.56	0.4	0.03	95.96	0.5	1	104	4	16	1	49	10
BCD21471	123.90	125.00	1.10	15.63	0.15	5.61	5.93	4.35	4.82	0.12	3.16	0.21	53.38	0.87	0.11	94.34	2.4	1	546	28	53	2	87	20
BCD21479	155.00	158.00	3.00	18.12	0.05	4.58	4.88	2.92	1.51	0.08	2.46	0.16	61.25	0.37	0.04	96.43	0.5	1	35	33	17	1	60	5
BCD21480	162.50	165.50	3.00	16.82	0.15	3.63	4.49	5.17	1.87	0.1	5.36	0.14	58.63	0.62	0.09	97.07	1.8	28	57	17	30	1	41	15
BCD21483	178.70	181.70	3.00	18.07	0.045	5.79	4.13	0.93	1.45	0.1	4.24	0.16	61.05	0.41	0.02	96.4	0.6	1	56	5	7	1	47	5
BCD21484	206.20	209.20	3.00	17.96	0.045	6.17	4.58	1.34	1.49	0.12	3.84	0.17	60.95	0.4	0.03	97.09	0.2	1	58	6	14	1	39	5
BCD21485	222.50	225.50	3.00	15.57	0.15	6.71	6.86	4.61	6.36	0.14	2.8	0.26	51.95	0.72	0.1	96.22	1.5	1	169	39	38	1	67	10
BCD21487	245.40	248.40	3.00	18.1	0.045	5.26	4.19	1.44	1.39	0.1	3.97	0.16	61.57	0.41	0.09	96.73	0.4	6	32	4	7	1	46	5

HOLE NUMBER: VEL-02

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: VELVET
PROJECT NUMBER: 659
CLAIM NUMBER:
LOCATION:

PLOTTING COORDS GRID:
NORTH: 100.00S
EAST: 135.00W
ELEV: 1057.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -52° 0' 0"
LENGTH OF THE HOLE: 240.00m
START DEPTH: 5.80m
FINAL DEPTH: 245.80m

COLLAR GRID AZIMUTH: ° ' "

COLLAR ASTRONOMIC AZIMUTH: 90° 0' 0"

DATE STARTED: October 6, 1989
DATE COMPLETED: October 10, 1989
DATE LOGGED: October 7, 1989

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: Lone Ranger
CASING: left in hole
CORE STORAGE: Bob Voight's property

PURPOSE: To test the Velvet vein and others to the south of the workings.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
68.60	-	-50° 0'	ACID			-	-	-	-	-	
-130.10	-	-50° 0'	ACID			-	-	-	-	-	
-200.20	-	-51° 0'	ACID			-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 5.80	«CASING»					
5.80 TO 25.80	«FLT ZONE IN MONZ»	Colour: light grey Grain Size: medium -50-60% FP in a f.g. grey matrix -FP 1-4 mm -weakly magnetic				
				5.8-9.0 -weak >5% epidote veinlets -heavily fractured with hem on frac 60-90 deg to c.a.		5.8-9.0 -90% recovery
				9.0-9.6 -very dark f.g. chloritic matrix		9.0-9.6 -70% recovery
				9.6-10.1 -silficified at 60 deg to c.a. with bands -some vuggy qtz veinlets	{9.6-10.1} -«massive blebs of py(20%), cpy(5%), spec hem(1-2%)»	9.6-10.1 -90% recovery
				{10.1-14.2} -«strong fault zone» chl with 10% QV's -badly broken	10.1-14.2 -strong hematite on fract	10.1-14.2 -50% recovery
				{14.2-25.0} -«10% epidote vnlts, 2-3% qtz vnlts» -ground very broken		14.2-25.0 -95% recovery
		25.6-25.8 -strong talc rich contact fault gouge at 45 deg to c.a.				
25.80 TO 35.00	«FP-PX MAFIC DYKES»	Colour: light grey Grain Size: fine - grey matrix with 4-8 mm FP's (20%) and 3-5 mm PxP's (8%) very fresh rock intruding Monzonite		-tr epid saus on FP's		
		28.5-30.0 -break with altered monzonite dykes		28.5-30.0 -minor qtz veins and epidote veins	{28.5-30.0} -«2% spec hem, 2% mag» as veinlets in	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					monzonite	
35.00 TO 63.50	«MONZONITE»	Colour: light grey Grain Size: medium -medium intrusive with 60-70% 1-3 mm FP's and 5-10% biot altered Hb? xtals -equigranular and mod magnetic		-«5-10% epid» both replacing FP's and as veinlets	-avg «tr spec. hem, hem and mag» in 1-2 mm fract at 60 deg to c.a.	-99% recovery
63.50 TO 72.90	«LAMPROPHYRE DYKE»	Colour: dark brown Grain Size: fine to medium -a f.g. homogeneous dyke with 1-2 m FP's 10% and 1 mm biotite grains 50% + 20% chl clots -mod magnetic -very distinct chilled margins with f.g. matrix with coarse Px? xtals at 63.5-65.3 and 69.4-72.9 -contact @ 45-70 deg to c.a.		-minor epidote as fractures -wk carb	-avg «1-2% diss py»	
72.90 TO 92.80	«MONZONITE»	Colour: light grey Grain Size: medium -fine grained matrix with 60% FP's 1-4 mm -fine grained sections near fracture -also altered contact near dykes (chilled margins) @ 72.9-75.1 90.0-92.8		-mod epidote veinlets and epidote blotches -occasional zones with minor hematite	{72.9-76.1} -contact has qtz veinlets with sulphdies 3 mm - 2 cm wide -avg «1-2% py, 1% spec hem» @ 60 deg to c.a. 91.3-92.8 -qtz-carb veinlets with 1% py avg and tr spec hem total -occasional veinlets in the rest of the section with minor sulphides	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
92.80 TO 94.30	«LAMPROPHYRE DYKE»	Colour: dark brown Grain Size: fine -90% fine grained biot, chl and mafic minerals -5% carb (vesicles?) -mod. magnetic				
94.30 TO 98.10	«ALTERED MONZONITE»	Colour: dark green Grain Size medium -matrix pervas silicified -FP's very faint		-«pervasive silic'n» with 5% small qtz veinlets	-«5% vnlts» 5 mm-3 cm «carry 50-60% py, 1-5% cpy, tr spec. hem»	
98.10 TO 101.80	«SYENITE DYKE»	Colour: light pink Grain Size: coarse -a fine grained Kspar rich matrix with 4-6 mm zoned FP's 30%, 10% Px xtals		-some epidote replacement to FP's		
101.80 TO 105.80	«ALTERED MONZONITE»	Colour: light grey Grain Size: medium -strongly altered between dykes -30% FP's 1-3 mm vague -30% Px Pheno's 1-2 mm		-«pervasive silic'n» -«10+% epid» vnlts and blebs -some fract extremely chl rich and f.g.	{104.0-105.0} -«20% QV's» 2-10 cm «with 30% py, 5% cpy, 5% hem» @ 45 deg to c.a.	
105.80 TO 109.40	«SYENITE DYKE»	Colour: light pink Grain Size: coarse -f.g. aphanitic light pink matrix with 4-7 mm FP's 25%; 10% Px phenos 2-5 mm -chilled margins -contact @ 45 deg to c.a.		-minor epidote replacing FP's	-tr py in fractures	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
109.40 TO 131.00	«MONZONITE»					
		Colour: light grey Grain Size: medium -medium grained with 50-60 % equi FP's (2-3 mm) -occasional fracture zones @ 60 deg to c.a. with f.g. chlorite rich margins		-pervasive weak silicification making FP's faint -«10-15% epid» veinlets and blebs -.5 m patches with hem alteration pervasive	{110.0-112.5} -«2% vnlts» with 1-2 cm QV's «with 15% py, 2% cpy» {115.9-117.4} -«2-3%» .3-2 cm frac with «qtz with 10% cpy, 10% spec hem, 2% py» -chloritic matrix {127.7-130.7} -«2%» 1 cm fracture with «qtz with 20% py, 20% cpy, 10% spec hem»	{109.9-110.0} -mod «fault zone» with fract @ 45 deg to c.a. {131.0-131.5} -«strong fault» with chl + vuggy qtz at 50 deg to c.a.
131.00 TO 167.70	«MAFIC VOLCANICS»	Colour: medium green Grain size: fine -fine grained chl matrix with 50% .5 mm FP's -often bounded with f.g. sections @ 50 deg to c.a. (primary?) -occasional patches of 30% 1 mm Px phenos -non magnetic 144.0-144.4 -px rich mafic dyke with 1-3 mm px xtals -contact @ 45 deg to c.a.		-5% 5 mm - 2 cm carb veinlets -2-3% epidote veinlets and patches -fractures very f.g. and chloritic	-av. «tr py, hem, cpy» as 1 mm - 1 cm veinlets throughout section 134.7-135.2 -3 cm vein @ 30 deg to c.a. av. 20% cpy 10% py 142.5-144.0 -5% 5 mm - 2 cm veins @ 40 deg to c.a. with 40% hem, 2-3% py, tr cpy 144.4-146.9 -5% 5 mm - 1 cm bands with 10% oxidized hem in carb veins	{139.3-142.0} -«strong fault» with poor recovery 70% -quite talc rich -fract @ 40-60 deg to c.a.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					152.4-167.7 -av. 2% 3 mm - 1 cm veins with 50% spec hem, 3-5% cpy, 2-3% py @ 40-50 deg to c.a.	
167.70 TO 173.20	«LAMPROPHYRE DYKE»	Colour: dark brown Grain Size: fine -1 mm biotite altered mafic px? forms a gmass -mod magnetic		-2% qtz-carb veinlets 1-3 mm	-«5%» black sulphide blebs to 5 mm «spec hem?»	{171.0-173.3} «fault zone» -broken rock @ 45 deg to c.a. with serp core @ 172.4-172.5
173.20 TO 224.20	«SERPENTINE»	Colour: dark green Grain Size: aphanitic -generally massive mod magnetic aphanitic serpentine		173.2-175.6 -light grey with 10-15% 3-4 mm qtz veins and minor talc 175.6-178.0 -apple green with talc on fract 178.0-217.8 -generally dark green with talc in faults 217.8-221.2 -apple green with fract @ 50 deg to c.a. 221.2-224.2 -pale grey fault contact 10+ qtz-carb veinlets @ 30 deg to c.a.	{173.2-175.6} -«15-20%» veins of blebs of «black sulphide» (hem or mag?) {175.6-178.01} -«20-25% spec hem» with mminor hem as veinlets and blebs {178-217.8} -av. «20+% spec hem» as blebs and diss in matrix with occasional late spec hem vein {217.8-221.2} -av. «15% vnlts and blebs hem» {221.2-224.2} -approx «5% spec hem?» as blebs	{173.2-178.0} -«Fault zone» @ 50 deg to c.a. {183.0-183.4} -«Fault» with talc gouge and light colour {186.1-187.2} -«Fault» with talc gouge @ 35 deg to c.a.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
224.20 TO 240.80	«MAFIC VOLCANICS»	Colour: medium green Grain size: fine -fine green chl matrix with 1 mm FP's (40%)		-5% 1 cm carb veinlets @ 35-40 deg to c.a. -minor epidote	-«15% hem with 1-2% py in carb vnlts»	
240.80 TO 245.80	«MONZONITE» E.O.H.	Colour: light green Grain size: coarse -very vague contact -fine grained matrix with 50% 2-4 mm FP's		-«weak pervasive silic'n» makes features faint -5+% epidote veinlets and blebs		

Sample	From (m)	To (m)	Length (m)	ASSAYS Cu %	Zn %	Pb %	Ag gm/T	Au gm/t	GEOCHEMICAL Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm	COMMENTS
BCD21501	9.00	9.60	0.60						121	17	46	0.9	2	
BCD21502	9.60	10.10	0.50	2.190	0.01	0.02	14.3	4.86						
BCD21503	10.10	11.60	1.50						89	29	57	0.8	1	
BCD21504	11.90	14.20	2.30						50	49	73	1.2	32	
BCD21506	28.50	30.00	1.50						16	19	37	0.6	3	
BCD21511	72.90	74.40	1.50						18	31	44	0.8	25	
BCD21512	74.40	76.10	1.70						318	29	51	1.8	321	
BCD21513	91.30	92.80	1.50						400	24	50	1.3	384	
BCD21514	94.30	95.80	1.50						298	29	40	1.4	64	
BCD21515	95.80	98.10	2.30						55	21	43	1	2	
BCD21517	101.80	104.00	2.20						114	19	42	0.7	35	
BCD21518	104.00	105.00	1.00					2.18	860	20	54	1.8	1900	
BCD21519	105.00	105.80	0.80						64	18	38	0.6	11	
BCD21520	110.00	111.50	1.50						150	16	32	0.7	40	
BCD21521	111.50	112.50	1.00						72	13	29	0.8	135	
BCD21522	115.90	117.40	1.50						820	21	57	1.4	170	
BCD21523	127.70	129.20	1.50						590	18	42	0.8	57	
BCD21524	129.20	130.70	1.50						620	21	40	0.9	61	
BCD21525	131.00	131.50	0.50						530	23	47	1.1	215	
BCD21576	134.70	135.20	0.50						640	19	52	1	58	
BCD21578	142.50	144.00	1.50						221	17	36	0.8	37	
BCD21579	144.40	145.90	1.50						130	16	40	0.9	8	
BCD21581	155.00	156.50	1.50						880	17	43	1.3	22	
BCD21582	156.50	158.00	1.50						324	17	44	1.1	17	
BCD21583	158.00	159.50	1.50						780	14	41	1.5	10	
BCD21584	164.70	166.20	1.50						52	17	40	0.9	9	
BCD21585	166.20	167.70	1.50						232	38	50	1.3	18	
BCD21586	173.20	174.20	1.00						10	28	20	0.9	7	
BCD21587	174.20	175.60	1.40						29	29	25	1.1	4	
BCD21588	175.60	177.00	1.40						10	29	25	0.9	2	
BCD21589	177.00	178.00	1.00						10	33	30	0.8	1	
BCD21590	179.00	180.50	1.50						9	29	35	1	2	
BCD21591	182.00	183.50	1.50						8	30	31	0.9	5	
BCD21592	186.00	187.50	1.50						8	31	35	1	2	
BCD21593	190.00	191.50	1.50						6	32	36	1.2	1	
BCD21595	196.00	197.50	1.50						8	28	28	0.8	1	
BCD21597	202.00	203.50	1.50						7	28	25	0.9	2	
BCD21598	205.00	206.50	1.50						8	29	26	1.2	2	

Sample	From (m)	To (m)	Length (m)	Cu %	Zn %	Pb %	Ag gm/T	Au gm/t	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm
BCD21599	208.00	209.50	1.50						8	35	33	1.3	3
BCD21600	211.00	212.50	1.50						10	31	25	1.1	1
BCD21526	214.00	215.50	1.50						10	32	26	1	1
BCD21528	219.30	221.20	1.90						10	34	23	1	4
BCD21530	222.70	224.20	1.50						34	27	25	0.8	3
BCD21531	226.20	227.70	1.50						42	23	62	1.1	2
BCD21532	227.70	229.20	1.50						19	25	73	1.2	1
BCD21533	229.20	230.70	1.50						42	24	77	1	1

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb
BCD21505	16.80	20.00	3.20	17.82	0.055	3.98	4.42	1.72	1.62	0.08	4.21	0.14	60.74	0.41	0.03	95.24	0.6	1	64	40	19	1	53	10
BCD21507	30.50	33.50	3.00	17.15	0.1	2.1	2.81	5.24	0.89	0.08	4.67	0.09	63.33	0.3	0.07	96.81	0.8	10	41	16	21	1	44	5
BCD21508	41.20	44.20	3.00	17.49	0.045	7.13	4.09	1.24	1.41	0.1	3.68	0.19	59.79	0.38	0.03	95.57	0.6	1	58	17	15	1	43	5
BCD21509	54.00	57.00	3.00	17.55	0.05	5.6	4.01	1.64	1.47	0.1	3.61	0.16	60.26	0.38	0.03	94.85	0.6	17	75	9	14	1	46	5
BCD21510	66.00	68.00	2.00	14.38	0.155	5.22	6.01	4.46	4.11	0.11	2.86	0.2	57.11	0.82	0.1	95.54	2.2	1	740	26	82	3	120	5
BCD21516	98.10	101.10	3.00	16.91	0.095	2.07	2.75	5.38	0.76	0.07	4.28	0.08	64.03	0.29	0.14	96.85	0.3	19	47	16	14	1	41	10
BCD21577	139.30	142.00	2.70	16.99	0.04	3.59	3.43	3.45	1.33	0.07	2.44	0.13	62.05	0.38	0.38	94.28	0.6	8	75	110	18	1	38	30
BCD21580	148.40	151.40	3.00	16.35	0.04	7.29	6.01	2.45	2.49	0.14	3.1	0.21	52.48	0.55	0.02	91.13	0.6	1	102	7	34	1	72	10
BCD21594	193.00	194.50	1.50	0.39	0.005	0.01	8.29	0.01	37.64	0.23	0.02	0.42	38.74	0.01	0.14	85.88	0.8	1	6	8	157	3	53	5
BCD21596	199.00	200.50	1.50	0.29	0.005	0.11	8.18	0.01	37.14	0.24	0.02	0.45	38.96	0.01	0.1	85.49	1	1	7	9	147	2	67	10
BCD21527	217.80	219.30	1.50	0.39	0.005	0.01	7.43	0.01	36.59	0.18	0.03	0.4	38.8	0.01	0.14	83.96	1	1	5	10	145	3	53	5
BCD21529	221.20	222.70	1.50	3.17	0.06	3.86	6.85	0.24	27.94	0.22	0.28	0.42	37.81	0.19	0.38	81.43	1.2	1	524	15	108	3	58	5
BCD21534	242.90	245.80	2.90	16.97	0.045	4.09	3.15	1.14	1.44	0.08	5.41	0.15	63.68	0.32	0.14	96.62	0.7	7	59	91	22	1	41	5

HOLE NUMBER: VEL-03

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: VELVET
PROJECT NUMBER: 659
CLAIM NUMBER:
LOCATION:

PLOTTING COORDS GRID:
NORTH: 2.08S
EAST: 1.65W
ELEV: 1052.00

COLLAR GRID AZIMUTH: ° ' "

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR ASTRONOMIC AZIMUTH: 90° 0' 0"

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 255.00m
START DEPTH: 6.20m
FINAL DEPTH: 261.20m

DATE STARTED: October 11, 1989
DATE COMPLETED: October 16, 1989
DATE LOGGED: October 13, 1989

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: Lone Ranger
CASING: left in hole
CORE STORAGE: Bob Voight's property

PURPOSE: To test the Velvet Vein and other to the south of the workings.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
81.40	-	-45° 0'	ACID	OK		-	-	-	-	-	
139.30	-	-46° 0'	ACID	OK		-	-	-	-	-	
188.40	-	-46° 0'	ACID	OK		-	-	-	-	-	
261.20	-	-44° 0'	ACID	OK		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.20	«CASING»					
6.20 TO 9.60	«LAMPROPHYRE DYKE»	Colour: dark grey green Grain size: fine -15% px phenos, 2-3 mm, 2% biot in fng grey matrix -massive fresh -chill margin of lamp dyke as in 12.2-15.4 (dyke 6.2-15.4 intruded by syenite??) -magnetic		-v. minor carb veinlets -rusty fractures		-broken, good recovery 90%
9.60 TO 12.20	«SYENITE»	Colour: pale pink Grain size: fine -2% coarse px clots (5 mm) -2% coarse plag (av 3 mm) in fine Kspar rich matrix -massive fresh dyke cutting lamprophyre?? -magnetic				-broken, 90% recov.
12.20 TO 15.40	«LAMPROPHYRE DYKE»	Colour: dark grey-green Grain Size: fine -5% px, 5% bi, 5% plag (av. 3 mm) in fng mafic gmass -fresh, massive -chill margins 15.0-15.4 with coarse px as 6.2-9.6 -mod magnetic sharp contact	80	-v. minor carb veinlets		-90% recov.
15.40 TO 15.90	«MONZONITE»	Colour: med grey Grain Size: coarse -massive fresh monzonite -20% coarse zoned plag to 6 mm, 20% mafics (px+?) av. 2 mm, 60% felsp rich matrix -non magnetic		-rusty fracs		-broken, 80% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
15.90 TO 17.00	«LAMPROPHYRE DYKE»	Colour: dark grey-brown Grain Size: fine -10% feldsp phenos to 4 mm, 10% bio + px to 2 mm in f.g. mafic rich gmass -massive, fresh magnetite		-v. minor carb		>95% recovery
17.00 TO 28.00	«MONZONITE»	Colour: med grey Grain Size: medium to coarse -f.g. feldsp rich matrix with 30% coarse feldsp (4 mm) and 20% fine mafics (1-2 mm) -f.g. alteration adjacent to fractures -non magnetic		-weak ep alteration as plag replacement and minor veinlets -locally weak perv. hem alteration {25.0-28.0} -«local silica flooding and qtz vnlts» 27.6-28.0 -patchy f.g. alteration/chill margin	21.1-21.4 -minor qtz vnlt @ 30-40 deg to c.a. to 2 mm wide	massive core >95% recovery
28.00 TO 30.10	«SYENITE DYKE»	Colour: pink-brown Grain Size: fine 10% coarse zoned feldspar to 3 mm in f.g. Kspar rich pink gmass -massive,fresh -mod magnetic contact	60	-minor rusty fractures -5 cm silic zone adjacent to lower contact		Broken core: 80% recoveru Dyke intruding monzonite
30.10 TO 36.60	«MONZONITE»	Colour: med grey Grain Size: medium 50% coarse fsp phenos; 20% fsp, 20% mafics average 1 mm as f.g. gmass -weak foliation developed locally @ -non magnetic -v. broken core at contact	60	-mod epidote alteration replacing feldspar and as patches -weak silicification -locally weak hematite 34.0-35.0 -5% qtz veinlets		-90% recovery 35.7-37.0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
						-v. broken, poor recovery (50%)
36.60 TO 39.20	«MAFIC VOLCANICS»	Colour: dark grey-green Grain Size: fine v. fine grained dark grey-green mafic rx? sharp contact with monzonite -volcs?? -non magnetic -massive lower contact	30	-weak-mod epidote alteration -minor carb veinlets		-massive core: 95% recovery
39.20 TO 48.00	«MONZONITE»	Colour: med grey Grain Size: medium -as above -non magnetic fractures, veining	45	-minor qtz carb veinlets -f.g. alteraiton envelope on fractures 44.5-45.1 -silic, fine alteration, qtz veining		39.2-46.0 -massive core: 95% recovery 46.0-47.5 -broken core: 60% recovery 47.5-48.0 -90% recovery
48.00 TO 48.30	«LAMPROPHYRE DYKE»	Colour: dark grey Grain Size: fine 5% fine feldspar, 5% biotite in f.g. grey matrix -mod magnetic				massive dyke cutting monzonite
48.30 TO 52.20	«ALTERED MONZONITE/ FAULT ZONE»	Colour: grey Grain Size: fine to medium 10% mafics 1-2 mm; locally coarse feldsp visible in f.g. matrix -narrow rusty gouge -non magnetic		-rusty fractures -«weak-mod silic'n»		broken monzonite - 50% recovery {48.3-52.2} «Fault Zone»

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
52.20 TO 55.50	«LAMPROPHYRE DYKE»	Colour: dark grey Grain Size: fine -2% biotite, 2% pyroxene to 2 mm in f.g. gmass -massive -weak - mod magnetic -grad contact to altered monzonite below		-v. minor carb veinlets 53.9-54.4 -Fault Zone -broken core and buff fault gouge		52.2-53.9 -95% recovery {53.9-54.4} -«Fault Zone» 60% recovery 54.4-55.5 -95% recovery
55.50 TO 65.90	«MONZONITE»	Colour: grey Grain Size: medium 20% coarse feldspar to 6 mm, 10% fine mafics in feldspar rich gmass -locally weak-mod f.g. alteration as enveloped on fracs and zones to 10 cm wide qtz veining	60	-weak ep alteration replacing feldsp -minor carb veinlets -weak silicification -weak chl alteration {63.0-64.0} -altered monzonite, «mod silic'n, v. weak bx, minor qtz veining», weak chl alteration	63.0-64.0 -minor py - disseminated and stringers 65.0 -narrow py stringer	broken core: 80% recovery
65.90 TO 68.20	«SERPENTINE»	Colour: dark grey-white Grain Size: fine -mottled texture, massive serp -strongly magnetic		-dark green, strong talc on fractures -strong talc-carb(+ qtz?) veining (random) 66.1-66.3 -strong carb??, hem alteration: pale orange colour, no fizz with 10% irreg qtz veinlets	-«5% py in talc-carb veins»	massive core: >95% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
68.20 TO 75.30	«LAMPROPHYRE DYKE»	Colour: grey-brown Grain Size: fine 5% px, 2% bio avg. 3 mm in f.g. mafic gmass -massive, fresh carb veinlets sharp upper contacts -5 cm gouge zone @ lower contact -mod magnetic	35 45	-v. minor carb veinlets @ 35 deg		Massive core: >95% recovery
75.30 TO 77.50	«SERPENTINE»	Colour: grey Grain Size: fine -mottled grey f.g. serp with strong talc alt'n on fractures weakly developed foliation -mod magnetic	80	-«v. strong talc» (white-pale green); (50-60%) -minor carb veinlets		Massive core: 95% recovery
77.50 TO 79.60	«ALTERED MONZONITE»	Colour: grey-green Grain Size: fine - medium 10% fine mafic in fine grey gmass, locally rem feldsp phenos visible -dark green f.g. alteration envelope on fractures -non magnetic		-«weak to mod silic» throughout with «local bx intervals and strong hem-qtz flooding» (10% of interval) as irregular patches	-«5% diss py in hem-silic zones»	Massive core: >95% recovery
79.60 TO 80.50	«LAMPROPHYRE DYKE»	Colour: grey brown Grain Size: fine -massive, fresh dyke as in 68.2-75.3		-v. minor carb veinlets @ 45 deg to ca		90% recovery
80.50 TO 87.60	«ALTERED MONZONITE»	Colour: dark grey-green Grain Size: fine -f.g. grained, with locally 10% coarse px as in		-weak chl alteration	-«5% py», med-coarse diss in veinlets	Broken core: 80% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		chill margin (10 cm wide) @ lower contact -locally pale grey coarse silic monz to 20 cm with v. grad. contacts -non magnetic -sharp contacts gouge zones @ lower contact	 60 50	-weak silicification -rusty frac surfaces -minor narrow/1-2 cm gouge zones and silic bx zones @ 60 deg -«5% irreg white qtz vnlts»	with qtz -minor mal stain on rusty fracs. {83.1-83.15} -«5 cm coarse py vein» @ approx 80 deg to c.a.	{80.5-87.6} «Fault Zone»
87.60 TO 94.20	«SERPENTINE»	Colour: grey-green Grain Size: fine -massive, mottled serpentine -mod magnetic narrow gouge zones: 90.6, 89.5 @ 60-80 deg to c.a. mod foliation sharp, rusty, gougy lower contact	 45 40	-10-20% qtz-carb veinlets @ 45 deg to c.a. -strong talc along fractures		Massive core: >95% recovery
94.20 TO 94.50	«FP-PX MAFIC DYKE»	Colour: grey green Grain Size: fine -2% fine px, 2% feldsp, 1-2 mm in fng gmass lower contact - 2 cm gouge zone	 45			>95% recovery massive fng. dyke intruding serp
94.50 TO 96.40	«SERPENTINE»	Colour: grey green Grain Size: fine -as above 87.6-94.2 sharp lower contact @	 35	-«10-20% qtz-carb vnlts» @ 45 deg -strong talc on fracs -rusty staining		massive, >95% recovery
96.40 TO 103.20	«ALTERED MONZONITE»	Colour: grey Grain Size: med -10% fine mafics, altered to chl, locally 10-20%		-mod chl alteration	-«2% fine diss py» and in veinlets and	massive, broken core 90% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		coarse feldsp, visible (to 8 mm) in f.g. pale grey matrix -sharp lower contact -nonmagnetic	 75	-minor qtz-carb veining @ 40 deg to ca	irregular patches to 1 cm across	
103.20 TO 107.00	«MAFIC VOLCANICS»	Colour: dark grey Grain Size: fine -5% fine feldsp, 5% fine mafics in f.g. dark grey gmass -massive -weak-mod magnetic -weak foliation defined by mafics -sharp contact	 70 50		-minor fine diss py	-massive core 95% recovery
107.00 TO 108.10	«ALTERED MONZONITE DYKE»	Colour: grey green Grain Size: fine -weak rem coarse folds text visible -mod banding @ 80 deg dt chl alteration -non magnetic		-weak chl alteration -v. minor carb veinlets		-broken, core 90% recovery
108.10 TO 109.40	«MAFIC VOLCANICS»	Colour: dark grey Grain Size: fine -porphyritic with 10% mafic (px) phenos, avg 3 mm minor fine felds phenos in f.g. gmass -massive -weakly magnetic		-v. minor carb veinlets		massive, broken core, 90% recovery
109.40 TO 119.90	«ALTERED MONZONITE»	Colour: grey Grain Size: fine to medium -weak rem coarse feldsp test visible -mod banding @ 45 deg chl/ep alteration -minor slicks on fracs 40-60 deg -non magnetic		-weak chl alteration mod ep replace feldsp and as veinlets and patches -minor qtz-carb veining -local perv hem alteration of gmass -weak silic'n	-v. minor py in qtz-carb veinlets	broken core, 80% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
119.90 TO 123.00	«MAFIC VOLCANICS»	Colour: dark grey green Grain Size: fine 119.0-121.2 -f.g., strongly banded altered volcanics -weakly magnetic 121.2-123.0 -massive porphyritic volc with 5% mafic phenos, minor feldsp phenos. -weakly magnetic		⌈119.0-121.2⌉ -«strong chl alt'n» -weak silicification 121.2-123.0 -weak silicification -minor qtz-carb veinlets	⌈119.0-121.2⌉ -«3% diss py and py bands» to 2 mm 121.2-123.0 -v. minor diss py	broken core 80% recovery
123.00 TO 163.50	«ALTERED MONZONITE»	Colour: grey Grain Size: medium 123.0-126.2 -strongly altered monzonite with only v. local rem text visible -strong banding @ 50-70 deg to c.a. -bx -indistinct marroon volc clasts -patchy magnetism -slicks on fracts -fault cont. between volcs and intr. 126.2-138.1 -25% coarse feldsp phenos avg 4 mm, 10% mafics avg 2 mm in f.g. grey feldsp rich matrix -massive -weakly magnetic 138.1-143.3 -f.g. dark grey with minor felds phenos avg 1 mm visible locally 143.3-144.5 -pale grey monzonite, well pres. rem. texts ⌈144.5-146.0⌉ -strongly silicified «bx» monzonite in fault zone		123.0-126.2 -weak silic'n -mod to strong qtz carb veining 126.2-138.1 -mod ep alteration as feldsp replacement -minor perv hem alteration of matrix -minor carb veinlets 138.1-143.3 -minor carb veinlets 45 deg -patchy hem alteration 143.3-144.5 -weak silicification -minor carb veinlets @ 60 deg to c.a. ⌈144.5-146.0⌉ -«strong silic'n» -10% qtz veining, irreg. white veins	123.0-126.2 -minor diss py in marroon volc clasts 126.2-138.1 -minor diss py and py stringers ⌈138.1-143.3⌉ -«5% spec hem» as irregular patches and network of veinlets with minor py 143.3-144.5 -minor diss py 144.5-146.0 -minor diss py and py stringers	123.0-126.2 -v. broken core, 80% recovery Fault contact between volcs and intrus. 126.2-130.1 -massive core, >95% recovery 130.1-134.0 -broken core, 75% recovery 134.0-141.9 -broken core, 90% recovery ⌈141.9-143.4⌉ -v. broken core 40% recov. -«Fault Zone» 143.4-144.5 -massive broken core 90% recovery 144.5-147.5 -broken core, 75% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		146.0-155.5 -massive monzonite with weak-mod texts preserved {155.5-157.6} -grey green «fault gouge and strongly bx silic monz» -white qtz veining @ 45 deg 157.6-163.5 -altered monzonite with little rem text visible -weak banding dt alteration @ 45 deg		146.0-155.5 -minor qtz-carb veinlets -weak-mod silicification -local rusty fracs & v. minor local perv hem alteration {155.5-157.6} -«strong silic'n» of bx sects -«5% qtz veining» -mod chl alteration 157.6-163.5 -mod silicification -local mod hem alteration		{144.5-146.0} «Fault Zone» 147.5-155.5 -broken core, 95% recovery {149.35-149.4} -«gouge zone» {155.5-157.6} -«Fault Zone» -90% recovery 157.6-163.5 -broken core 90% recovery {161.5-162.0} -«10% hem fault gouge» on fracs
163.50 TO 167.00	«LAMPROPHYRE DYKE»	Colour: dark grey brown Grain Size: fine to medium -fresh massive fine-med crystalline dyke with 10% bi avg 3 mm, 10% coarse feldsp to 4 mm, 20% finer feldsp in f.g. gmass -top contact is broken, rusty, fault gouge -lower contact is also faulted 90 deg, with 40 cm chilled margin in dyke, 10% bio and mafics in f.g. gmass		-minor carb veining @ 45 deg		massive core, >95% recovery
167.00 TO 183.00	«MONZONITE»	Colour: grey Grain Size: medium 167.0-174.8 -med to coarse monzonite with 30% coarse feldsp avg 6 mm in f.g. grey gmass ep veinlets {174.8-177.7} -Fault Zone -grey (to purple locally) «fault gouge with silic bx monzonite clasts» and intensely bx silic monz.	45	167.0-174.8 -weak silicification -weak ep alteration as veinlets at 45 {174.8-177.7} -«silic» -minor rusty fracs		167.0-174.8 -broken core, 85% recovery {174.8-177.7} -«Fault Zone» -60% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		177.7-183.0 -v. broken core adjacent to fault zone -grey silic monzonite with well preserved c. fsp -30% avg 6 mm		‡177.7-183.0‡ -«mod silic'n»	177.7-183.0 -minor diss py and py stringers	v. broken core 75% recovery
183.00 TO 187.00	«LAMPROPHYRE DYKE»	Colour: dark grey brown Grain Size: fine -10% mafics - bi and px and 10% fine feldsp (to 2 mm) in f.g. mafic gmass -broken frac'd upper contact -sharp lower contact @ -masssive, fresh -magnetite	50	-minor qtz carb veinlets -minor ep alteration (patchy)	-v. minor diss py	massive broken core 85% recovery
187.00 TO 189.90	«MONZONITE»	Colour: grey Grain Size: medium -well pres coarse feldsp (av. 6 mm) - 25% in f.g. dark grey gmass		-mod silification -v. minor ep alteration of gmass feldsp and as patches	-minor py - diss and on fracs	massive broken core 95% recovery
189.90 TO 194.20	«LAMPROPHYRE DYKE»	Colour: dark grey brown Grain Size: fine -10% bio av. 2mm, 10% fine mafics, 10% fine fsp in dark mafics gmass (-locally coarse fsp) -massive fresh -magnetite -broken contacts		-minor qtz-carb veinlets @ 45 deg	-v. minor fine diss py	massive broken core 95% recovery
194.20 TO 240.80	«MONZONITE»	Colour: pale grey Grain Size: medium -massive monzonite with well pres texts -30% coarse fsp av. 7 mm in f.g. fsp rich matrix		-minor ep alteration altering gmass fsp and as veinlets and irreg patches -mod silicification -v. minor qtz-carb stringers @ 45 deg -mafics may be altered to chl 2 cm qtz vein @ 212.0 m 40 deg	-v. minor fine diss py	194.2-200.3 -broken core, 80% recovery 200.3-213.0 -massive, broken core, 95% recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		213.0-217.3 -v. fine grained, massive altered phase of monzonite		{213.0-217.3} -«mod to strong ep alt'»n - patchy -minor carb veinlets @ 30 deg -weak silicification	213.0-217.3 -minor diss pyrite	213.0-217.3 -broken, massive core, 95% recovery
		217.3-218.4 -Fault Zone -rem coarse fsp locally visible		{217.3-218.4} -«v. strong silic'n in crackle breccia» -mafics => chl		{217.3-218.4} -«Fault Zone» -85% recovery
		218.4-222.3 -med grained monzonite with well pres. text -grad contact to rx below		218.4-222.3 -weak to mod silification -minor carb stringers -weak ep alteration		218.4-222.3 -broken core, 80% recovery
		222.3-226.0 -fine grained altered phase of monzonite as in 213.0-217.3 {225.0-225.2} -«strong crackle bx, fault gouge»		222.3-226.0 -mod to strong ep alteraton, patchy weak silification -minor carb veinlets	222.3-226.0 -minor diss py	222.3-226.0 -broken core, 85% recovery
		226.0-231.6 -30% coarse feldsp. av. 5mm, 20% fine feldsp av 2 mm in f.g. grey gmass		226.0-231.6 -v. weak ep alteration of gmass feldsp -weak chl alteration of mafics -locally weakly silic and bx -v. minor qtz-carb veinlets		226.0-231.6 -broken core, 90% recovery
		231.6-235.2 -strongly altered monzonite with weak rem texts visible; patchy dark green black colour -non magnetic -massive -grad contacts		{231.6-235.2} -«strong chl (and serp?) alt'n» -mod carb veining @ 45 deg		231.6-235.2 -massive core, >95% recovery
		235.2-240.8 -strongly silicified monzonite with remn coarse feldsp text visible		{235.2-240.8} -«strongly silic» -local weak ep alteration -hairline qtz-carb stringers @ 60 deg -mod chl alteration	235.2-240.8 -minor v. fine diss py	235.2-240.8 massive core >95% recovery
240.80 TO 251.90	«SERPENTINE»	Colour: dark grey-green Grain Size: aphanitic 240.8-241.9		{240.8-241.9}	240.8-241.9	240.8-251.9

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-pale grey, aphanitic weak foliation @ -grad into talc serp below 241.9-251.9 -dark grey green patchy appearance -slicks of fracs @ -strong foliation @ -sharp lower contact @	50 45 45 60	-«strong talc and silic'n» {241.9-251.9} -«strong talc-serp» with 10% qtz veining	-v. minor diss py {241.9-242.9} -«5% coarse py» {242.9-251.9} -«2% py» diss and stringers	-massive core >95% recovery
251.90 TO 261.20	«MAFIC VOLCANICS» E.O.H.	Colour: grey green Grain Size: fine -5% fine feldsp phenos locally visible -massive; f.g. grey volc		-v. minor carb stringers 255.5-256.5 -weak silicification	{255.5-256.5} -«2% diss py»	massive broken core 95% recovery

Sample	From (m)	To (m)	Length (m)	ASSAYS Cu %	Zn %	Pb %	Ag gm/T	Au gm/t	GEOCHEMICAL Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm	COMMENTS
BCD19829	25.00	28.00	3.00						27	24	39	0.7	63	
BCD19830	34.00	35.00	1.00						4	25	33	0.5	6	
BCD19832	44.50	45.10	0.60						197	14	38	1	21	
BCD19833	48.30	50.00	1.70						43	15	40	0.6	20	
BCD19834	50.00	52.20	2.20						155	20	45	0.8	11	
BCD19836	53.90	54.40	0.50						66	27	90	1.1	5	
BCD19837	63.00	64.00	1.00						12	26	39	0.6	1	
BCD19838	65.90	67.00	1.10						3	25	13	0.7	8	
BCD19839	67.00	68.20	1.20						11	26	17	0.7	11	
BCD19841	75.30	77.50	2.20						34	29	17	0.4	9	
BCD19842	77.50	79.60	2.10						26	19	39	0.4	2	
BCD19843	80.50	82.00	1.50						112	24	38	0.7	38	
BCD19845	83.50	85.00	1.50						20	27	59	1.2	265	
BCD19846	85.00	86.50	1.50						6780	26	77	7.1	189	
BCD19847	86.50	87.60	1.10						714	21	53	1.4	50	
BCD19848	87.60	89.10	1.50						23	26	12	0.7	2	
BCD19849	89.10	90.60	1.50						22	24	8	0.6	14	
BCD19850	90.60	92.10	1.50						12	23	11	0.7	12	
BCD19851	92.10	93.60	1.50						6	22	9	0.7	16	
BCD19852	93.60	95.10	1.50						9	20	27	0.7	8	
BCD19853	95.10	93.40	-1.70						36	26	12	0.9	7	
BCD19856	138.10	140.60	2.50						4	17	20	0.8	44	
BCD19857	140.60	143.30	2.70						32	16	26	0.7	3	
BCD19858	143.30	144.50	1.20						18	12	23	0.5	4	
BCD19859	144.50	146.00	1.50						34	15	30	0.6	5	
BCD19860	155.50	157.60	2.10						7	12	22	0.5	3	
BCD19862	174.80	176.20	1.40						3	12	17	0.3	7	
BCD19863	176.20	177.70	1.50						4	9	17	0.3	3	
BCD19866	217.30	218.40	1.10						2	10	27	0.2	9	
BCD19870	241.90	242.90	1.00						46	22	38	0.9	16	

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb
BCD19826	9.60	12.20	2.60	17.53	0.105	1.7	3.25	6.56	0.88	0.07	4.44	0.07	61.6	0.41	0.07	96.68	0.7	9	25	74	20	1	65	5
BCD19827	12.20	15.40	3.20	16.53	0.125	3.98	5.18	5.77	3.25	0.1	3.4	0.16	55.74	0.69	0.08	95	1.3	1	215	31	43	1	78	10
BCD19828	20.00	23.00	3.00	17.89	0.055	6.55	4.35	1.24	1.51	0.11	3.85	0.18	59.69	0.42	0.04	95.86	0.5	5	61	11	17	1	49	5
BCD19831	37.00	39.20	2.20	18.18	0.02	8.55	9.01	0.38	4.12	0.18	3.12	0.25	48.39	0.76	0.01	92.98	1.2	1	37	66	43	4	89	5
BCD19835	52.30	53.90	1.60	16.39	0.14	4.88	5.28	4.2	3.19	0.1	3.48	0.18	56.19	0.68	0.1	94.8	1.3	1	141	36	32	2	78	5
BCD19840	72.00	75.00	3.00	16.33	0.15	4.8	5.74	5.05	3.47	0.1	3.16	0.18	54.18	0.87	0.11	94.15	1.1	1	389	34	38	2	65	5
BCD19844	82.00	83.50	1.50	15.45	0.05	4.11	8.21	3.18	2.96	0.1	0.78	0.17	57.43	0.36	2.1	94.89	0.8	4	178	70	27	1	64	200
BCD19854	99.00	101.00	2.00	15.55	0.035	2.71	10.71	3.39	3	0.09	0.44	0.16	55.54	0.36	5	96.99	0.8	24	75	166	40	1	66	140
BCD19855	116.00	119.00	3.00	17.47	0.045	5.15	5.43	2.48	2.22	0.12	3.25	0.17	56.58	0.48	0.07	93.47	0.5	1	64	24	23	1	62	15
BCD19861	164.50	166.50	2.00	14.5	0.18	7.04	7.17	3.16	5.93	0.13	2.45	0.26	50.61	1.05	0.11	92.59	2.2	1	1099	43	55	6	88	5
BCD19864	184.00	187.00	3.00	14.55	0.155	5.37	6.05	3.02	4.22	0.13	2.87	0.21	55.73	0.85	0.12	93.28	1.9	1	273	37	65	5	101	5
BCD19865	187.00	189.00	2.00	17.37	0.045	3.18	2.87	1.83	1.09	0.05	5.43	0.12	63.38	0.3	0.04	95.7	0.3	1	69	6	7	1	30	5
BCD19867	223.00	226.00	3.00	16.96	0.06	4.07	3.33	2.71	1.62	0.09	3.03	0.14	62.04	0.35	0.02	94.42	0.3	6	81	5	8	1	37	5
BCD19868	232.00	235.00	3.00	13.48	0.015	6.89	4.39	0.76	8.05	0.14	1.8	0.26	53.96	0.24	0.01	90	0.7	1	25	4	49	4	61	5
BCD19869	238.00	240.00	2.00	17.33	0.055	2.32	2.53	3.71	2.96	0.1	1.96	0.13	63.56	0.28	0.03	94.97	0.2	1	123	4	20	1	43	10
BCD19871	247.00	250.00	3.00	1.73	0.03	14.56	9.1	0.01	20.72	0.69	0.02	0.54	28.77	0.01	0.64	76.82	0.5	1	248	22	83	12	39	5