

INTER-OFFICE MEMORANDUM
CURRAGH RESOURCES INC.

TO: Gregg A. Jilson
Vice-President, Exploration
Whitehorse, Yukon

FROM: Lee Pigage
Senior Geologist
Whitehorse, Yukon

RE: QUESTIONS ON MEMO: 03/29/90 - NAL
ASSAY CHECK FOR 1989 GRUM DRILLING

DATE: MAY 3, 1990

1) SAMPLE PREPARATION

Reject and pulp samples from Cam's recommended lists (Tables 1-3) were found (when possible) in storage at Curragh Resources - Whitehorse. The samples were selected from a spreadsheet of the 1989 assay results using a random number function. The samples covered the full range of Pb+Zn grades encountered in the drilling program.

N.A.L. split the pulp samples (Table 1) into two equal subsamples. One split was analyzed by N.A.L. The other split was shipped to Bondar-Clegg for analysis. Both labs analyzed for Pb(AA), Zn(AA), Ag(AA), Au(FA), Cu(AA), and Total Fe(AA).

N.A.L. prepared a split from the reject pea-size samples listed in Table 2. This split was pulverized and analyzed for Pb(AA), Zn(AA), Ag(AA), Au(FA), Cu(AA), Total Fe(AA) and pulp SG.

N.A.L. also prepared a split from the reject pea-size samples listed in Table 3. This split was sent to Bondar-Clegg for pulp SG analysis.

2) COMPARISON TO MIN-EN RESULTS

Mt. Hundere assay checks show slightly tighter clustering of % Difference near the 0-line on a Grade vs % Difference chart. The range of grade values in the Grum samples, however, is much more restricted than that for Mt. Hundere. With the Hundere charts, comparable grade values show almost as large a range in the % Difference values. In short, the comparison to Mt. Hundere results is not as bad as it first appears.

3) CORRELATION COEFFICIENTS AND REGRESSION ANALYSIS

Table 1 contains the results of modelling the check analysis using the NAL initial assays as the independent variable. I have reported both the regression equations where the regression line is constrained to go through (0,0) and where the line is unconstrained for the y-intercept. Correlation coefficients are also given for each regression equation. The regressions are not fully appropriate because they assume all errors are in the check assays and all measurements have equal weighting.

The problems and trends identified in the original study are also apparent in the regression equations. Pb, Zn, and Cu show high correlation coefficients. Slopes for the Zn-NAL pulp and Zn-NAL pea regressions also indicate that NAL check assays are slightly high relative to the initial results. Pulp SG has an unacceptably high y-intercept, indicating the original measurements are systematically low.

4) SUMMARY

I hope this clarifies portions of the earlier memo. I find no reason to change the recommendations resulting from the check assays. In addition, I would suggest that better statistical comparison could be completed if more samples were submitted for the check assays.

Lee

Table 1. Standard Linear Regression Variation
between the NAL Initial Analysis
and the various re-analyses.

May 2, 1990

Independent Variable (NAL Initial)	Dependent Variable	Number of Samples	NAL Initial Analysis			Various re-analyses		
			Intercpt	Slope	Correl Coeff	Intercpt	Slope	Correl Coeff
Pb	NAL pulp	37	0	0.9104	0.9811	0.2006	0.8747	0.9856
	NAL pea	18	0	1.0656	0.9891	-0.0545	1.0847	0.9896
	B-C pulp	34	0	0.9060	0.9762	0.2625	0.8615	0.9837
Zn	NAL pulp	40	0	1.0795	0.9915	-0.0551	1.0880	0.9916
	NAL pea	18	0	1.1369	0.9821	-0.3994	1.2116	0.9879
	B-C pulp	33	0	0.9573	0.9807	0.1959	0.9285	0.9826
Ag	NAL pulp	37	0	1.2265	0.8506	-9.2366	1.3595	0.8687
	NAL pea	18	0	0.9412	0.7762	9.1544	0.7712	0.8616
	B-C pulp	35	0	1.0416	0.8947	3.6601	0.9905	0.9002
Au	NAL pulp	37	0	1.1184	0.8447	0.1375	0.9730	0.8829
	NAL pea	18	0	1.0341	0.8148	0.1792	0.8138	0.9393
	B-C pulp	35	0	1.0611	0.9398	-0.0447	1.1073	0.9430
Cu	NAL pulp	35	0	0.9182	0.9798	0.0010	0.9114	0.9799
	NAL pea	18	0	0.9105	0.9068	0.0035	0.8772	0.9089
	B-C pulp	33	0	0.8758	0.9738	0.0010	0.8688	0.9740
Total Fe	NAL pulp	37	0	0.8270	0.8561	0.2125	0.8115	0.8566
	NAL pea	20	0	0.8638	0.9017	0.6047	0.8232	0.9050
	B-C pulp	34	0	1.2439	0.9528	-0.0088	1.2445	0.9528
Pulp SG	NAL pea	18	0	1.0310	0.8754	0.5462	0.8479	0.9193
	B-C pea	22	0	1.0278	0.9231	0.5318	0.8674	0.9570

COL.3 (PEA)	COL.2 (PULP)	COL.4 (PULP)	COL.1	COL.1 INITIAL	COL.2 (PULP)	COL.3 (PEA)	COL.4 (PULP)	[(1-2)/1] N.A.L.	[(1-3)/1] N.A.L.	[(1-4)/1] NAL:BC		
CHECK	HOLE	CHECK	CHECK #	SAMPLE	ROCK	%Pb	%Pb	%Pb	%Pb	%Pb		
N.A.L.	NUMBER	N.A.L.	B.C.	NUMBER	CODE	N.A.L.	N.A.L.	N.A.L.	B.C.	VARIANCE		

		P-23		15440			0.01		0.02			
		P-26		15462			0.01		0.02			
		P-27		15714			0.01		0.01			
		P-25		15454			0.01		0.01			
		P-24		15447			0.02		0.08			
	898-14	P-41		41960	5D6	0.02	0.07		0.05			
	898-15	P-35		37168	4A0	0.05	0.1		0.09			
G-12	898-19	P-31	37025	37025	4A0#	0.2	0.21	0.25	0.39	-5.00% -25.00% -95.00%		
	898-10	P-03		14777	5D	0.47	0.48		0.47	-2.13% 0.00%		
	898-11	P-06		14816	5B269	0.56	0.64		0.61	-14.29% -8.93%		
G-14	898-23	P-33	37136	37136	4H135	0.6	0.66	0.62	0.66	-10.00% -3.33% -10.00%		
G-10	898-16	P-17	14925	14925	5C/4D	0.48	0.76	0.64	0.76	-58.33% -33.33% -58.33%		
G-13	898-15	P-38	37200	37200	4AC	0.66	0.79	0.74	0.84	-19.70% -12.12% -27.27%		
	898-10	P-05		14791	4A0	0.25	1.07					
G-17	898-15	P-37	37191	37191	4C5	1.11	1.07	1.1	1.1	3.60% 0.90% 0.90%		
	898-14	P-44		41988	4A0	1.16	1.13		1.29	2.59%		
	898-10	P-02		14775	5DB	1.07	1.13		1.04	-5.61% 2.80%		
	898-14	P-43		41984	4A0	1.16	1.14		1.17	1.72% -0.86%		
	898-20	P-30		37010	4A0	1.06	1.18		1.19	-11.32% -11.32%		
	898-18	P-21		14977	4C53	1.46	1.22		1.2	16.44% 17.81%		
G-6	898-17	P-13	14896	14896	4C5	1.15	1.25	1.02		-8.70% 11.30%		
	898-11	P-07		14819	4A0	1.31	1.28		1.31	2.29% 0.00%		
G-4	898-13	P-11	14870	14870	4C5	1.31	1.3	1.33	1.3	0.76% -1.53% 0.76%		
	898-14	P-42		41982	4DAE	1.25	1.35		1.9	-8.00% -52.00%		
G-8	898-17	P-15	14907	14907	4A0	1.2	1.38	1.27	1.85	-15.00% -5.83% -54.17%		
G-13	898-19	P-32	37050	37050	4L24	1.29	1.41	1.16	1.31	-9.30% 10.08% -1.55%		
	898-20	P-28		37002	4A0	1.48	1.5		1.6	-1.35% -8.11%		
G-7	898-17	P-14	14904	14904	4A0	1.44	1.53	1.57	1.58	-6.25% -9.03% -9.72%		
G-1	898-11	P-08	14823	14823	4CA	1.5	1.59	1.83		-6.00% -22.00%		
G-16	898-15	P-36	37177	37177	4D0	1.72	1.66	1.54	1.78	3.49% 10.47% -3.49%		
	898-21	P-22		14999	4E1#	1.71	1.7		1.71	0.58% 0.00%		
G-2	898-13	P-09	14849	14849	4A0	1.62	1.75	1.49	1.78	-8.02% 8.02% -9.88%		
	898-10	P-01		14758	4A4	1.8	1.82		1.78	-1.11% 1.11%		
	898-18	P-19		14952	4D0	2.35	1.83		1.82	22.13% 22.55%		
G-15	898-23	P-34	37139	37139	4A4	1.75	1.9	1.95	2	-8.57% -11.43% -14.29%		
	898-16	P-18		14941	4EA4	2.71	2.11		2.16	22.14% 20.30%		
	898-10	P-04		14790	4C5	0.13	2.13		2.1			
G-9	898-16	P-16	14924	14924	4AD	1.99	2.5	2.35	2.56	-25.63% -18.09% -28.64%		
G-3	898-13	P-10	14863	14863	4A4	2.56	2.81	2.57	2.7	-9.77% -0.39% -5.47%		
	898-14	P-40		41954	4A44	3.13	3.04			2.88%		
G-5	898-17	P-12	14882	14882	4A44	4.25	4.27	4.42	4.2	-0.47% -4.00% 1.18%		
	898-18	P-20		14970	4A34	5.81	4.37		4.5	24.78% 22.55%		
G-19	898-25	P-39	37231	37231	4E4	6.26	6.62	6.89	6.53	-5.75% -10.06% -4.31%		
	898-20	P-29		37006	4E4	16.18	14.2		14.05	12.24% 13.16%		

AVERAGE VALUE ----->						1.95	1.75	1.82	1.79	-3.56%	-6.41%	-9.68%

COL.3 (PEA)	COL.2 (PULP)	COL.4 (PULP)	COL.1	COL.1 INITIAL	COL.2 (PULP)	COL.3 (PEA)	COL.4 (PULP)	[(1-2)/1] N.A.L	[(1-3)/1] N.A.L	[(1-4)/1] N.A.L:BC		
CHECK N.A.L. NUMBER	HOLE N.A.L.	CHECK N.A.L.	CHECK # B.C.	SAMPLE NUMBER	ROCK CODE	%Zn	%Zn	%Zn	%Zn	%Zn		
						N.A.L.	N.A.L.	N.A.L.	B.C.	VARIANCE	VARIANCE	VARIANCE
		P-23		15440			0.01		0.02			
		P-25		15454			0.01		0.01			
		P-24		15447			0.01		0.06			
		P-26		15462			0.01		0.01			
		P-27		15714			0.01		0.01			
	896-15	P-35		37168	4A0	0.09	0.08		0.1	11.11%		-11.11%
	896-14	P-41		41960	5D6	0.11	0.14		0.13			
G-12	896-19	P-31	37025	37025	4A0#	0.14	0.15	0.18	0.26	-7.14%	-28.57%	
G-13	896-19	P-32	37050	37050	4L24	0.75	0.81	0.71	0.79	-8.00%	5.33%	-5.33%
G-18	896-15	P-38	37200	37200	4AC	0.99	1.01	0.99	0.99	-2.02%	0.00%	0.00%
	896-11	P-06		14816	5B269	0.95	1.08		1.01	-13.68%		-6.32%
	896-10	P-03		14777	5D	1.16	1.23		1.16	-6.03%		0.00%
	896-14	P-43		41984	4A0	1.32	1.31		1.28	0.76%		3.03%
	896-10	P-02		14775	5D8	1.22	1.34		1.28	-9.84%		-4.92%
	896-20	P-30		37010	4A0	1.34	1.51		1.38	-12.69%		-2.99%
	896-11	P-07		14819	4A0	1.45	1.57		1.54	-8.28%		-6.21%
G-10	896-16	P-17	14925	14925	5C/4D	1.61	1.58	1.47	1.47	1.86%	8.70%	8.70%
	896-21	P-22		14999	4E1#	1.7	1.72		1.7	-1.18%		0.00%
	896-18	P-21		14977	4C53	1.9	2.07		1.96	-8.95%		-3.16%
G-14	896-23	P-33	37136	37136	4H135	1.88	2.22	2.16	2.05	-18.09%	-14.89%	-9.04%
	896-10	P-05		14791	4A0	1.1	2.24					
	896-14	P-42		41982	4DAE	2.32	2.43		3.3	-4.74%		-42.24%
G-6	896-17	P-13	14896	14896	4C5	2.43	2.77	2.3		-13.99%	5.35%	
	896-20	P-28		37002	4A0	2.77	2.81		2.7	-1.44%		2.53%
G-7	896-17	P-14	14904	14904	4A0	2.64	2.91	2.9	2.68	-10.23%	-9.85%	-1.52%
G-17	896-15	P-37	37191	37191	4C5	2.7	2.93	2.9	2.6	-8.52%	-7.41%	3.70%
G-8	896-17	P-15	14907	14907	4A0	2.66	3.2	3.06	3.66	-20.30%	-15.04%	-37.59%
G-1	896-11	P-08	14823	14823	4CA	3	3.26	3.56		-8.67%	-18.67%	
	896-14	P-44		41988	4A0	3.25	3.26		3.26	-0.31%		-0.31%
	896-10	P-04		14790	4C5	1.79	3.33		2.98			
G-2	896-13	P-09	14849	14849	4A0	3.39	3.46	3.21	3.2	-2.06%	5.31%	5.60%
G-4	896-13	P-11	14870	14870	4C5	3.19	3.59	3.31	3.4	-12.54%	-3.76%	-6.58%
G-16	896-15	P-36	37177	37177	4D0	3.64	3.69	3.26	3.7	-1.37%	10.44%	-1.65%
	896-10	P-01		14758	4A4	4.55	4.49		4.13	1.32%		9.23%
G-9	896-16	P-16	14924	14924	4AD	4.68	4.68	4.57	4.33	0.00%	2.35%	7.48%
G-3	896-13	P-10	14863	14863	4A4	4.48	4.77	5.09	4.2	-6.47%	-13.62%	6.25%
	896-18	P-19		14952	4D0	3.87	5.41		4.6	-39.79%		-18.86%
	896-16	P-18		14941	4EA4	5.35	5.53		5.03	-3.36%		5.98%
G-15	896-23	P-34	37139	37139	4A4	5.9	6.6	6.69	4.07	-11.86%	-13.39%	31.02%
G-5	896-17	P-12	14882	14882	4A44	7.35	7.63	8.82	7.19	-3.81%	-20.00%	2.18%
	896-18	P-20		14970	4A34	7.05	7.71		7.15	-9.36%		-1.42%
	896-14	P-40		41954	4A44	7.89	7.79			1.27%		
G-19	896-25	P-39	37231	37231	4E4	11.2	12.84	13.31	10.68	-14.64%	-20.63%	4.64%
	896-20	P-29		37006	4E4	17.5	19.24		16.48	-9.94%		5.83%

AVERAGE VALUE -----> 3.37 3.28 3.82 2.91 -7.31% -7.13% -1.97%

COL.3 (PEA) CHECK N.A.L.	COL.2 (PULP) HOLE NUMBER	COL.4 (PULP) CHECK N.A.L.	COL.1 CHECK # B.C.	COL.1 SAMPLE NUMBER	ROCK CODE	COL.1 INITIAL Ag N.A.L.	COL.2 (PULP) Ag N.A.L.	COL.3 (PEA) Ag N.A.L.	COL.4 (PULP) Ag B.C.	COL.4 [(1-2)/1] N.A.L Ag VARIANCE	[(1-3)/1] N.A.L Ag VARIANCE	[(1-4)/1] NAL:BC Ag VARIANCE
		P-27		15714			0.1		0.7			
	896-14	P-41		41960	5D6	10	0.6		1	94.00%		90.00%
		P-25		15454			1.1		1.4			
		P-23		15440			1.5		2.1			
		P-26		15462			3.5		3.4			
	896-15	P-35		37168	4A0	4	3.6		4.1	10.00%		-2.50%
	896-10	P-03		14777	5D	18	6.4		8.9	64.44%		50.56%
G-12	896-19	P-31	37025	37025	4A0#	8	8.9	7.8	12.3	-11.25%	2.50%	-53.75%
G-10	896-16	P-17	14925	14925	5C/4D	7	9.6	9.7	12.3	-37.14%	-38.57%	-75.71%
		P-24		15447			11.1		11.7			
	896-11	P-06		14816	5B269	11	11.2		11.7	-1.82%		-6.36%
G-14	896-23	P-33	37136	37136	4H135	8	11.5	11.3	11.3	-43.75%	-41.25%	-41.25%
	896-10	P-02		14775	5DB	26	12.3		15.1	52.69%		41.92%
G-13	896-19	P-32	37050	37050	4L24	10	13.3	14.4	16.5	-33.00%	-44.00%	-65.00%
G-18	896-15	P-38	37200	37200	4AC	16	15.1	13.6	15.4	5.63%	15.00%	3.75%
G-6	896-17	P-13	14896	14896	4C5	22	17.5	19.9		20.45%	9.55%	
	896-18	P-21		14977	4C53	18	17.8		21.9	1.11%		-21.67%
	896-14	P-42		41982	4DAE	40	19.9		32.2	50.25%		19.50%
	896-11	P-07		14819	4A0	19	20		24	-5.26%		-26.32%
	896-14	P-43		41984	4A0	31	20.6		21.3	33.55%		31.29%
	896-18	P-19		14952	4D0	30	20.7		33.9	31.00%		-13.00%
G-17	896-15	P-37	37191	37191	4C5	23	21.4	21.3	20.9	6.96%	7.39%	9.13%
G-16	896-15	P-36	37177	37177	4D0	18	21.5	19	26.1	-19.44%	-5.56%	-45.00%
	896-10	P-05		14791	4A0	12	21.9					
	896-20	P-30		37010	4A0	21	22.6		24.3	-7.62%		-15.71%
	896-10	P-04		14790	4C5	14	23.6		30.9			
	896-20	P-28		37002	4A0	26	24		29.5	7.69%		-13.46%
	896-21	P-22		14999	4E1#	23	24.4		32.6	-6.09%		-41.74%
G-4	896-13	P-11	14870	14870	4C5	21	25.6	31.2	29	-21.90%	-48.57%	-38.10%
G-15	896-23	P-34	37139	37139	4A4	31	26.6	28.1	28.1	14.19%	9.35%	9.35%
G-7	896-17	P-14	14904	14904	4A0	24	27.3	29.3	28.1	-13.75%	-22.05%	-17.05%
G-8	896-17	P-15	14907	14907	4A0	19	27.5	26.3	34.3	-44.74%	-38.42%	-80.53%
	896-14	P-44		41988	4A0	37	27.6		30.2	25.41%		18.38%
G-1	896-11	P-08	14823	14823	4CA	28	29.6	32.2		-5.71%	-15.00%	
G-9	896-16	P-16	14924	14924	4AD	24	29.8	34.4	38.4	-24.17%	-43.33%	-60.00%
G-2	896-13	P-09	14849	14849	4A0	11	32.4	29.3	30.5	-194.55%	-166.36%	-177.27%
	896-10	P-01		14758	4A4	36	38.7		35.3	-7.50%		1.94%
G-3	896-13	P-10	14863	14863	4A4	22	41.5	27.8	48	-88.64%	-26.36%	-118.18%
	896-16	P-18		14941	4EA4	49	43.4		51.4	11.43%		-4.90%
	896-14	P-40		41954	4A44	52	45			13.46%		
G-5	896-17	P-12	14882	14882	4A44	55	63.6	77.1	66.9	-15.64%	-40.18%	-21.64%
	896-18	P-20		14970	4A34	60	72.4		72.3	-20.67%		-20.50%
G-19	896-25	P-39	37231	37231	4E4	128	93.9	98.4	89.8	26.64%	23.12%	29.84%
	896-20	P-29		37006	4E4	195	316		222.2	-62.05%		-13.95%
AVERAGE VALUE ----->						30.95	30.15	29.51	30.75	-5.29%	-25.71%	-19.65%

COL.3 (PEA)	COL.2 (PULP)	COL.4 (PULP)	COL.1	COL.1 INITIAL	COL.2 (PULP)	COL.3 (PEA)	COL.4 (PULP)	[(1-2)/1] N.A.L	[(1-3)/1] N.A.L	[(1-4)/1] N.A.L:BC		
CHECK N.A.L.	HOLE NUMBER	CHECK N.A.L.	CHECK # B.C.	SAMPLE NUMBER	ROCK CODE	Au N.A.L.	Au N.A.L.	Au N.A.L.	Au B.C.	VARIANCE	VARIANCE	VARIANCE
		P-27		15714			0.11		0.07			
896-14	P-41			41960	5D6	0.03	0.11		0.07	-266.67%		-133.33%
	P-23			15440			0.14		0.07			
896-10	P-02			14775	5DB	0.07	0.14		0.07	-100.00%		0.00%
896-10	P-03			14777	5D	0.13	0.16		0.07	-23.08%		46.15%
	P-26			15462			0.17		0.07			
	P-25			15454			0.19		0.07			
G-14	896-23	P-33	37136	37136	4H135	0.25	0.23	0.3	0.14	8.00%	-20.00%	44.00%
	896-18	P-19		14952	4D0	0.06	0.25		0.07	-316.67%		-16.67%
G-10	896-16	P-17	14925	14925	5C/4D	0.11	0.27	0.17	0.1	-145.45%	-54.55%	9.09%
G-4	896-13	P-11	14870	14870	4C5	0.17	0.3	0.31	0.14	-75.47%	-82.35%	17.65%
G-16	896-15	P-36	37177	37177	4D0	0.1	0.33	0.22	0.21	-230.00%	-120.00%	-110.00%
	896-10	P-04		14790	4C5	0.25	0.34		0.21			
G-13	896-19	P-32	37050	37050	4L24	0.36	0.35	0.41	0.21	2.78%	-13.89%	41.67%
	P-24			15447			0.37		0.17			
	896-14	P-44		41988	4A0	0.33	0.37		0.31	-12.12%		6.06%
	896-11	P-06		14816	5B269	0.19	0.38		0.14	-100.00%		25.32%
G-17	896-15	P-37	37191	37191	4C5	0.15	0.38	0.35	0.24	-153.33%	-133.33%	-60.00%
G-15	896-23	P-34	37139	37139	4A4	0.31	0.38	0.37	0.24	-22.56%	-19.35%	22.56%
	896-10	P-01		14758	4A4	0.28	0.39		0.14	-39.29%		50.00%
	896-10	P-05		14791	4A0	0.28	0.39					
G-18	896-15	P-38	37200	37200	4A0	0.53	0.39	0.46	0.31	26.42%	13.21%	41.51%
	896-14	P-40		41954	4A44	0.28	0.46			-64.29%		
G-8	896-17	P-15	14907	14907	4A0	0.31	0.47	0.51	0.38	-51.61%	-64.52%	-22.58%
	896-15	P-35		37168	4A0	0.25	0.48		0.31	-92.00%		-24.00%
	896-14	P-43		41984	4A0	0.42	0.51		0.41	-21.43%		2.38%
G-12	896-19	P-31	37025	37025	4A0	0.48	0.55	0.56	0.38	-14.58%	-16.67%	20.83%
G-1	896-11	P-08	14823	14823	4CA	0.41	0.56	0.52		-36.59%	-26.83%	
G-2	896-13	P-09	14849	14849	4A0	0.45	0.57	0.57	0.45	-26.67%	-26.67%	0.00%
G-6	896-17	P-13	14896	14896	4C5	0.39	0.57	0.5		-46.15%	-28.21%	
G-9	896-16	P-16	14924	14924	4AD	0.39	0.6	0.5	0.41	-53.85%	-28.21%	-5.13%
	896-18	P-21		14977	4C53	0.51	0.61		0.45	-19.61%		11.76%
	896-20	P-28		37002	4A0	0.38	0.63		0.41	-65.79%		-7.89%
	896-16	P-18		14941	4EA4	1.19	0.64		1.1	46.22%		7.56%
G-7	896-17	P-14	14904	14904	4A0	0.46	0.7	0.63	0.48	-52.17%	-36.96%	-4.35%
G-3	896-13	P-10	14863	14863	4A4	0.54	0.71	0.83	0.51	-31.48%	-53.70%	5.56%
	896-20	P-30		37010	4A0	0.45	0.74		0.55	-64.44%		-22.22%
	896-21	P-22		14999	4E1	0.73	0.78		0.62	-6.85%		15.07%
	896-11	P-07		14819	4A0	0.43	0.8		0.41	-86.05%		4.65%
G-5	896-17	P-12	14882	14882	4A44	0.69	0.81	0.86	1.1	-17.39%	-24.64%	-59.42%
	896-14	P-42		41982	4DAE	0.87	1.09		0.99	-25.29%		-13.79%
	896-18	P-20		14970	4A34	1.07	1.33		1.17	-24.30%		-9.35%
G-19	896-25	P-39	37231	37231	4E4	1.99	1.81	1.74	1.85	9.05%	12.56%	7.04%
	896-20	P-29		37006	4E4	2.3	2.81		2.85	-22.17%		-23.91%
=====												
AVERAGE VALUE ----->						0.48	0.55	0.55	0.45	-59.89%	-40.23%	-3.90%

COL.3 (PEA)	COL.2 (PULP)	COL.4 (PULP)	COL.1	COL.1 INITIAL	COL.2 (PULP)	COL.3 (PEA)	COL.4 (PULP)	COL.4 [(1-2)/1] N.A.L	COL.4 [(1-3)/1] N.A.L	COL.4 [(1-4)/1] NAL:BC
CHECK	HOLE	CHECK	CHECK #	SAMPLE	ROCK	%Cu	%Cu	%Cu	%Cu	%Cu
N.A.L.	NUMBER	N.A.L.	B.C.	NUMBER	CODE	N.A.L.	N.A.L.	N.A.L.	B.C.	VARIANCE
	896-14	P-41		41960	5D6	0	0.001		0.02	
		P-23		15440			0.002		0.01	
		P-27		15714			0.002		0.01	
		P-25		15454			0.005		0.01	
G-10	896-16	P-17	14925	14925	5C/4D	0.01	0.007	0.015	0.01	30.00%
	896-10	P-03		14777	5D	0.01	0.007		0.01	30.00%
	896-10	P-02		14775	5DB	0.01	0.007		0.01	30.00%
	896-14	P-40		41954	4A44	0	0.009			
		P-26		15462			0.01		0.01	
	896-18	P-19		14952	4D0	0.01	0.011		0.01	-10.00%
G-4	896-13	P-11	14870	14870	4C5	0.01	0.013	0.025	0.01	-30.00%
G-15	896-23	P-34	37139	37139	4A4	0.02	0.014	0.014	0.02	30.00%
	896-10	P-04		14790	4C5	0.01	0.017		0.02	
	896-20	P-30		37010	4A0	0.01	0.018		0.02	-80.00%
	896-10	P-05		14791	4A0	0.01	0.018			-100.00%
G-16	896-15	P-36	37177	37177	4D0	0.03	0.02	0.02	0.02	33.33%
G-9	896-16	P-16	14924	14924	4AD	0.03	0.025	0.024	0.03	16.67%
G-7	896-17	P-14	14904	14904	4A0	0.03	0.025	0.029	0.02	16.67%
G-2	896-13	P-09	14849	14849	4A0	0.02	0.028	0.063	0.03	-40.00%
		P-24		15447			0.032		0.04	-215.00%
G-5	896-17	P-12	14882	14882	4A44	0.05	0.033	0.047	0.03	34.00%
G-14	896-23	P-33	37136	37136	4H136	0.05	0.035	0.04	0.03	6.00%
	896-14	P-42		41982	4DAE	0.04	0.036		0.05	30.00%
	896-10	P-01		14758	4A4	0.05	0.04		0.04	20.00%
G-8	896-17	P-15	14907	14907	4A0	0.05	0.042	0.036	0.01	10.00%
G-17	896-15	P-37	37191	37191	4C5	0.04	0.044	0.04	0.04	28.00%
	896-15	P-35		37168	4A0	0.04	0.044		0.04	0.00%
	896-11	P-06		14816	5B269	0.05	0.047		0.05	-10.00%
	896-18	P-21		14977	4C53	0.05	0.054		0.04	6.00%
	896-14	P-43		41984	4A0	0.06	0.055		0.05	-8.00%
G-1	896-11	P-08	14823	14823	4CA	0.07	0.06	0.037		8.33%
G-3	896-13	P-10	14863	14863	4A4	0.08	0.069	0.071	0.07	14.29%
	896-11	P-07		14819	4A0	0.08	0.073		0.06	47.14%
	896-14	P-44		41988	4A0	0.08	0.073		0.07	13.75%
	896-20	P-28		37002	4A0	0.08	0.075		0.08	11.25%
G-6	896-17	P-13	14896	14896	4C5	0.09	0.08	0.068		8.75%
G-13	896-19	P-32	37050	37050	4L24	0.13	0.101	0.128	0.11	25.00%
G-18	896-15	P-38	37200	37200	4AC	0.1	0.108	0.096	0.1	12.50%
	896-18	P-20		14970	4A34	0.13	0.146		0.13	8.75%
G-19	896-25	P-39	37231	37231	4E4	0.16	0.16	0.155	0.15	6.25%
	896-16	P-18		14941	4EA4	0.18	0.177		0.16	0.00%
G-12	896-19	P-31	37025	37025	4A06	0.19	0.187	0.172	0.18	22.31%
	896-20	P-29		37006	4E4	0.28	0.254		0.25	-8.00%
	896-21	P-22		14999	4E16	0.31	0.263		0.25	4.00%

AVERAGE VALUE -----> 0.07 0.06 0.06 0.06 6.16% -9.63% 3.72%

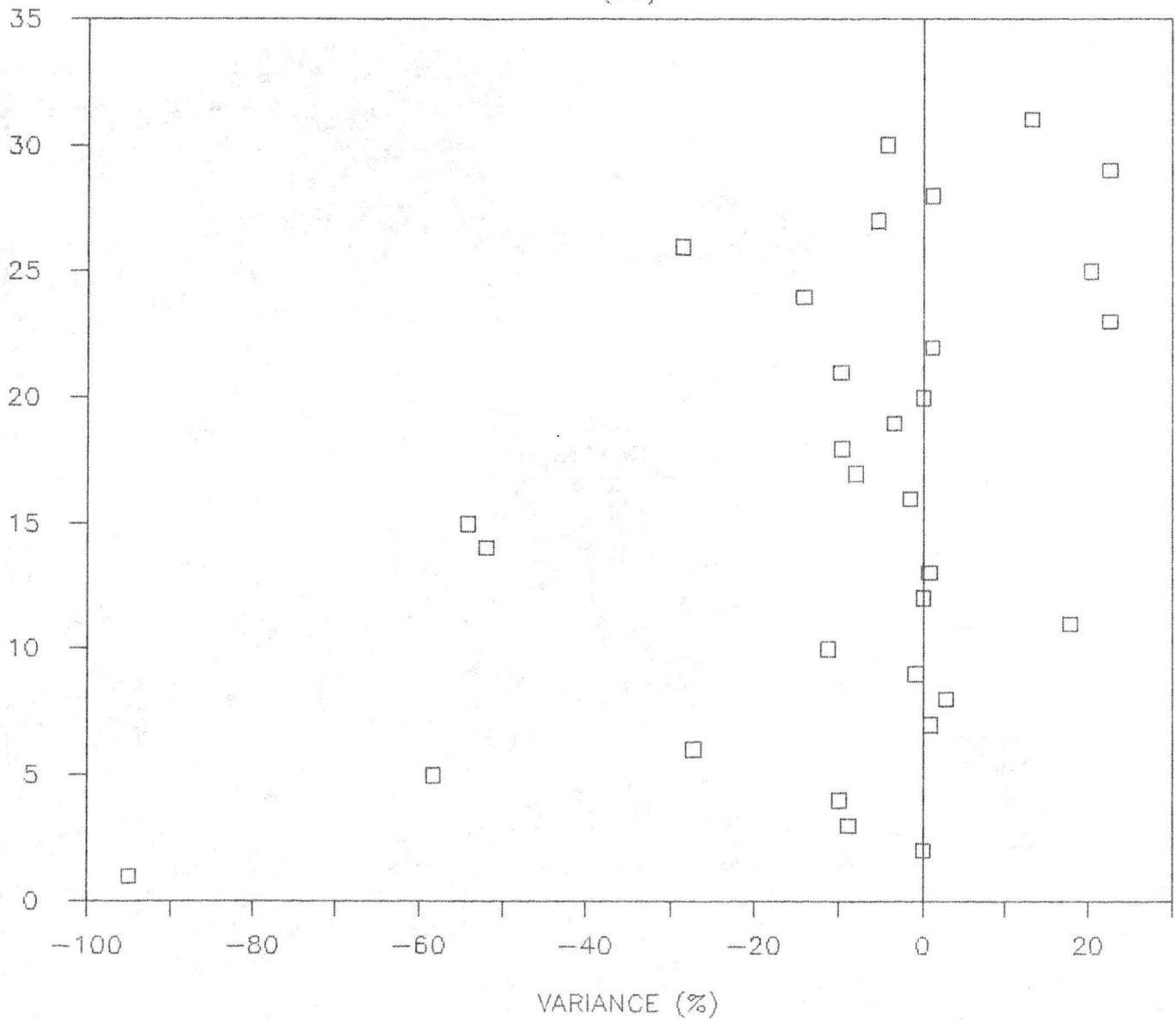
COL.3 (PEA)	COL.2 (PULP)	COL.4 (PULP)	COL.1 SAMPLE	ROCK CODE	COL. 1 INITIAL %Fe N.A.L.	COL. 2 (PULP) %Fe N.A.L.	COL. 3 (PEA) %Fe N.A.L.	COL. 4 (PULP) %Fe B.C.	[(1-2)/1] N.A.L. %Fe VARIANCE	[(1-3)/1] N.A.L. %Fe VARIANCE	[(1-4)/1] NAL:BC %Fe VARIANCE
	P-26		15462			0.93		0.74			
	P-23		15440			1.02		0.85			
	P-25		15454			1.09		1			
	P-24		15447			1.31		2.47			
	896-10 P-04		14790	4C5	0.91	1.33		2.59			
G-4	896-13 P-11	14870	14870	4C5	1.98	1.96	1.87	2.99	1.01%	5.56%	-51.01%
G-9	896-16 P-16	14924	14924	4AD	2.27	2.02	1.97	3.2	11.01%	13.22%	-40.97%
	P-27		15714			2.13		2.98			
	896-10 P-01		14758	4A4	4.08	2.19		3.2	46.32%		21.57%
G-2	896-13 P-09	14849	14849	4A0	3.65	2.88	4.11	4.9	21.10%	-12.60%	-34.25%
G-3	896-13 P-10	14863	14863	4A4	11.99	2.91	7.97	12.52	75.73%	33.53%	-4.42%
G-6	896-17 P-13	14896	14896	4C5	4.25	3.94	4.21		7.29%	0.94%	
G-1	896-11 P-08	14823	14823	4CA	5.36	4.03	3.78		24.81%	29.48%	
G-7	896-17 P-14	14904	14904	4A0	5.3	4.17	4.03	7	21.32%	23.96%	-32.08%
	896-10 P-05		14791	4A0	2.67	4.27					
	896-18 P-19		14952	4D0	4.7	4.34		6.4	7.66%		-36.17%
	896-11 P-07		14819	4A0	6.26	4.85		8.07	22.52%		-28.91%
	896-20 P-30		37010	4A0	7.38	4.98		9.13	32.52%		-23.71%
	896-11 P-06		14816	5B269	6.25	5.05		8.28	19.20%		-32.48%
	896-15 P-35		37168	4A0	4.71	5.08		6.45	-7.86%		-36.94%
	896-14 P-41		41960	5D6	4.39	5.09		5.09	-15.95%		-15.95%
G-17	896-15 P-37	37191	37191	4C5	4.5	5.22	4.51	6.98	-16.00%	-0.22%	-55.11%
G-16	896-15 P-36	37177	37177	4D0	4.66	5.46	4.89	6.08	-17.17%	-4.94%	-30.47%
	896-10 P-02		14775	5DB	7.51	5.51		7.75	26.63%		-3.20%
	896-14 P-43		41984	4A0	6.32	5.82		7.49	7.91%		-18.51%
	896-10 P-03		14777	5D	6.83	5.88		7.39	13.91%		-8.20%
G-10	896-16 P-17	14925	14925	5C/4D	6.14	6	5.69	7.7	2.28%	7.33%	-25.41%
	896-20 P-28		37002	4A0	9.05	6.45		10.69	28.73%		-18.12%
G-8	896-17 P-15	14907	14907	4A0	8.49	6.57	6.55	8.99	22.61%	22.85%	-5.89%
G-18	896-15 P-38	37200	37200	4AC	8.74	8.21	7.95	11.46	6.06%	9.04%	-31.12%
	896-18 P-21		14977	4C53	10.86	8.53		12.92	21.45%		-18.97%
	896-14 P-44		41988	4A0	12.09	8.77		13.2	27.46%		-9.18%
G-5	896-17 P-12	14882	14882	4A44	13.04	9.53	9.19	15.39	26.92%	29.52%	-18.02%
	896-14 P-40		41954	4A44	14.06	10.02			28.73%		
G-12	896-19 P-31	37025	37025	4A06	13.96	11.11	11.86	16.17	20.42%	15.04%	-15.83%
G-15	896-23 P-34	37139	37139	4A4	9.87	11.35	11.59	16.48	-14.99%	-17.43%	-66.97%
	896-18 P-20		14970	4A34	16.54	12.82		19.96	22.49%		-20.68%
	896-16 P-18		14941	4EA4	16.13	13.32		19.86	17.42%		-23.12%
	896-20 P-29		37006	4E4	20.08	14.2		24.2	29.28%		-20.52%
G-13	896-19 P-32	37050	37050	4L24	13.46	14.78	14.58	18.61	-9.81%	-8.32%	-38.26%
	896-14 P-42		41982	4DAE	23.41	17.14		24.45	26.78%		-4.44%
G-19	896-25 P-39	37231	37231	4E4	26.22	20.61	20.24	33.31	21.40%	22.81%	-27.04%
	896-21 P-22		14999	4E1#	20.59	21.52		30.37	-4.52%		-47.50%
G-14	896-23 P-33	37136	37136	4H135	19.99	21.84	22.6	27.94	-9.25%	-13.06%	-39.77%
AVERAGE VALUE ----->					9.46	7.19	8.20	10.88	14.74%	8.71%	-25.34%

NAL INITIAL Vs. BONDAR PULP

(Pb)

% Pb

Sample Number Code



16.18

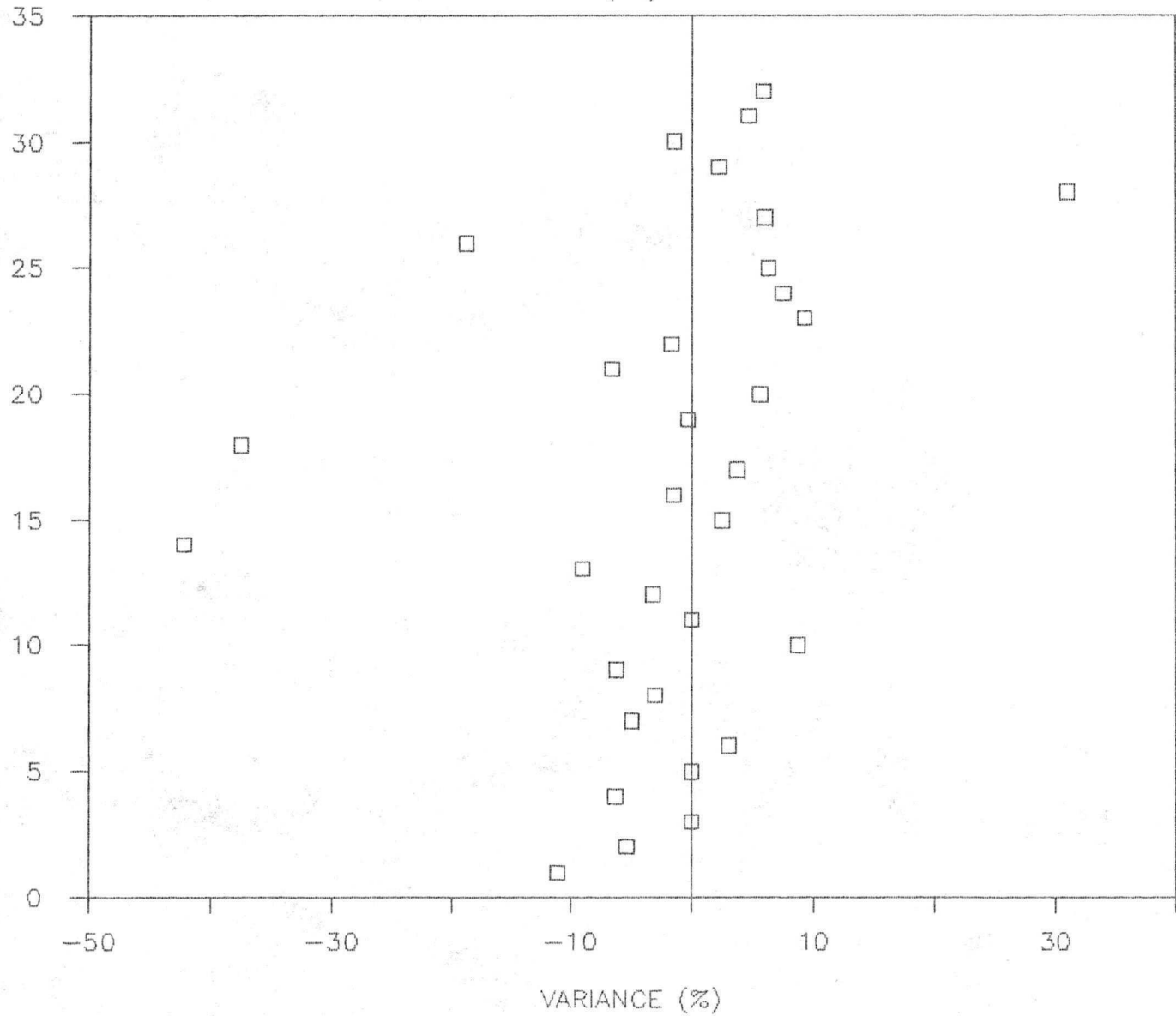
0.20
~~0.02~~

NAL INITIAL Vs. BONDAR PULP

(Zn)

% Zn

Sample Number Code



17.50

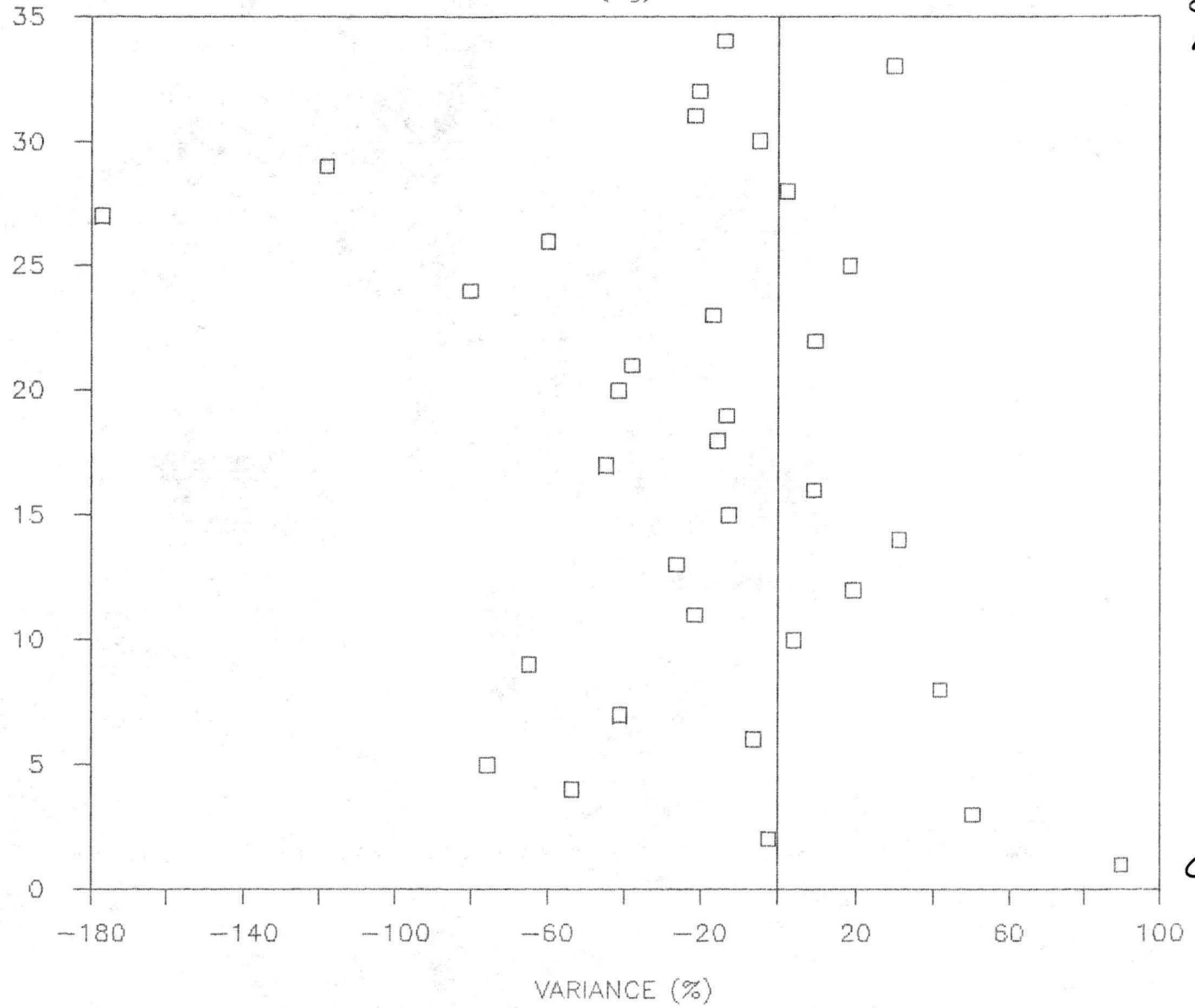
0.09

NAL INITIAL Vs. BONDAR PULP

(Ag)

g/t Ag
195

Sample Number Code



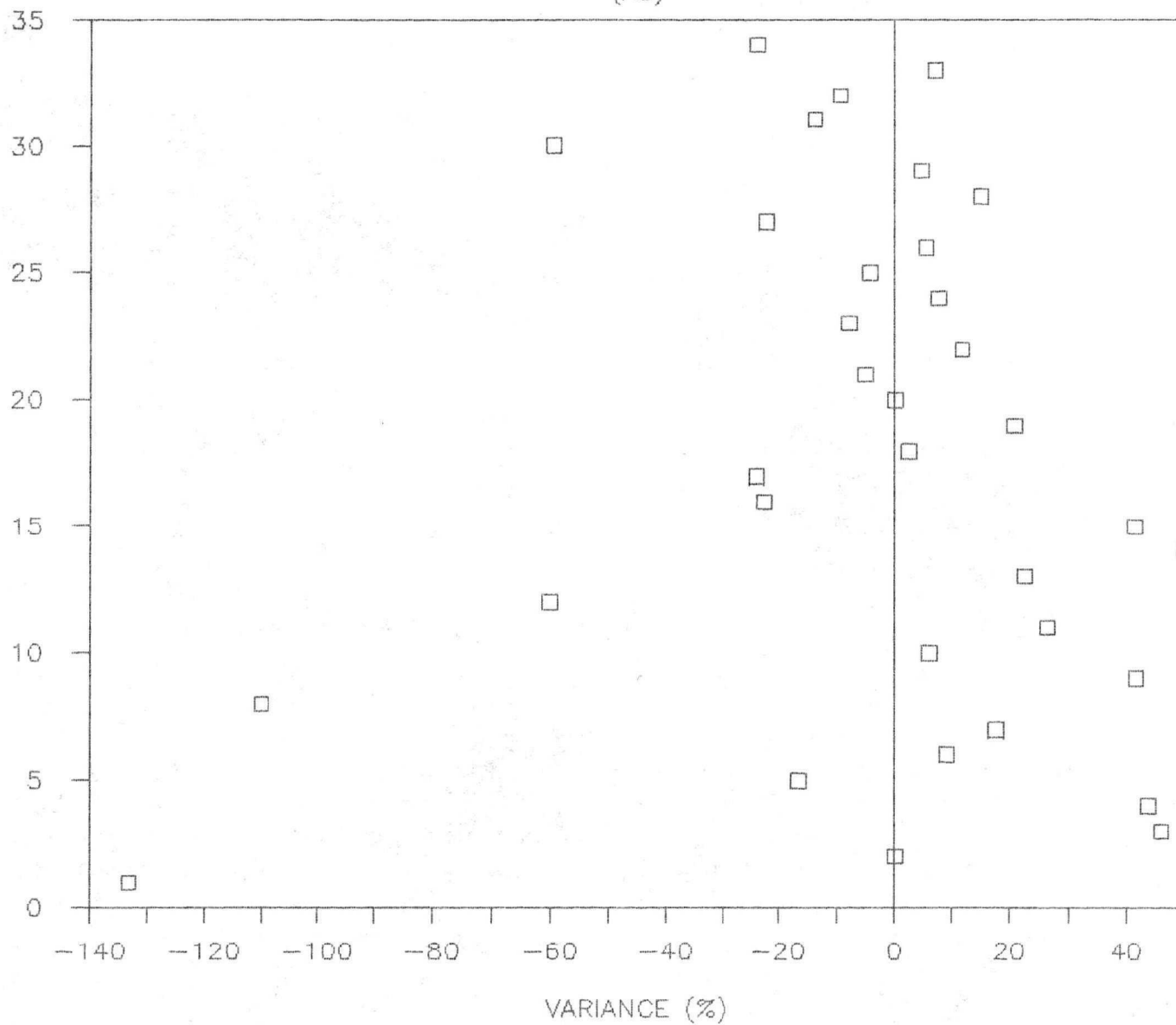
0.6

NAL INITIAL Vs. BONDAR PULP

(Au)

g/t Au
2.3

Sample Number Code



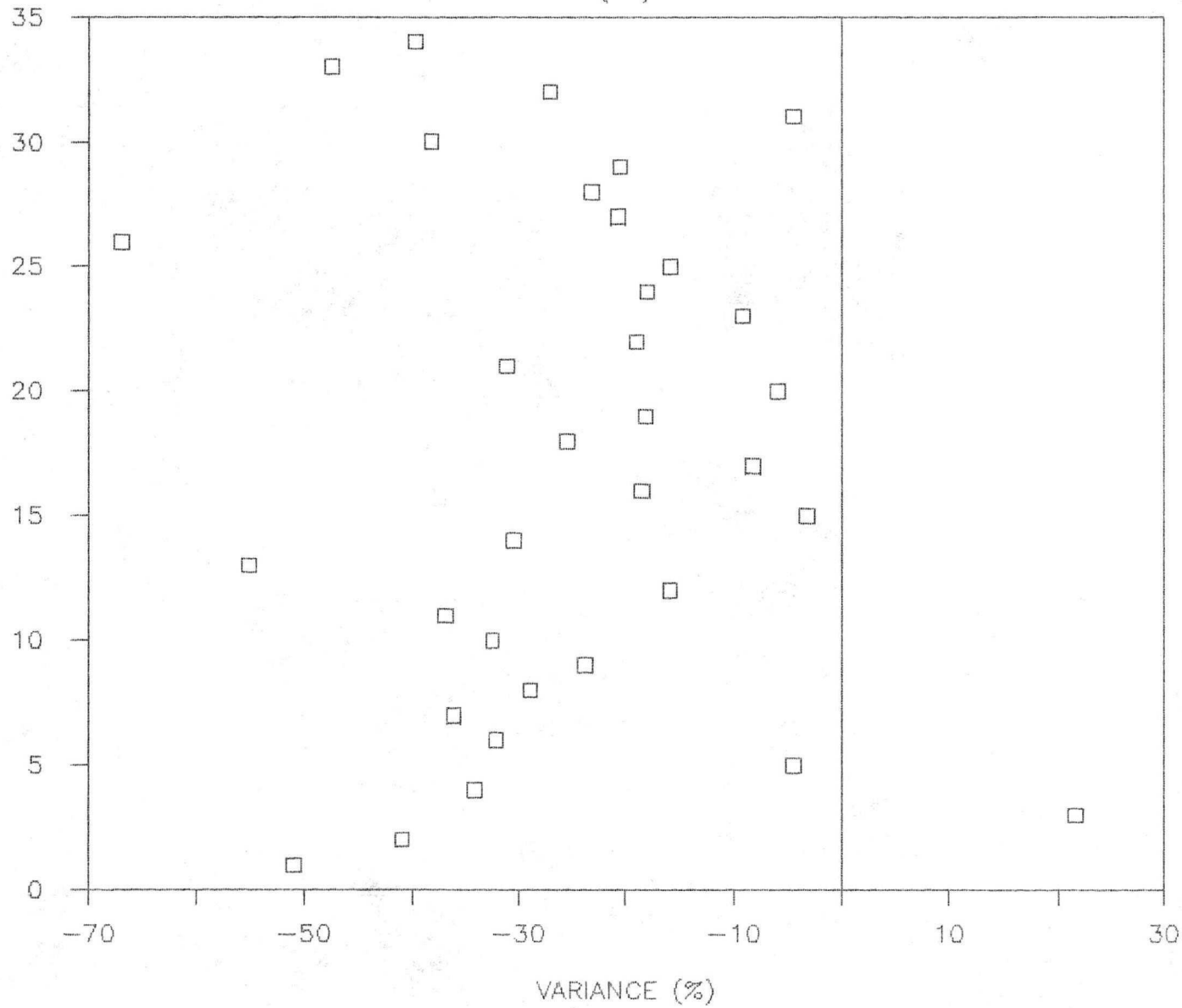
0.03

NAL INITIAL Vs. BONDAR PULP

(Fe)

% Fe
19.99

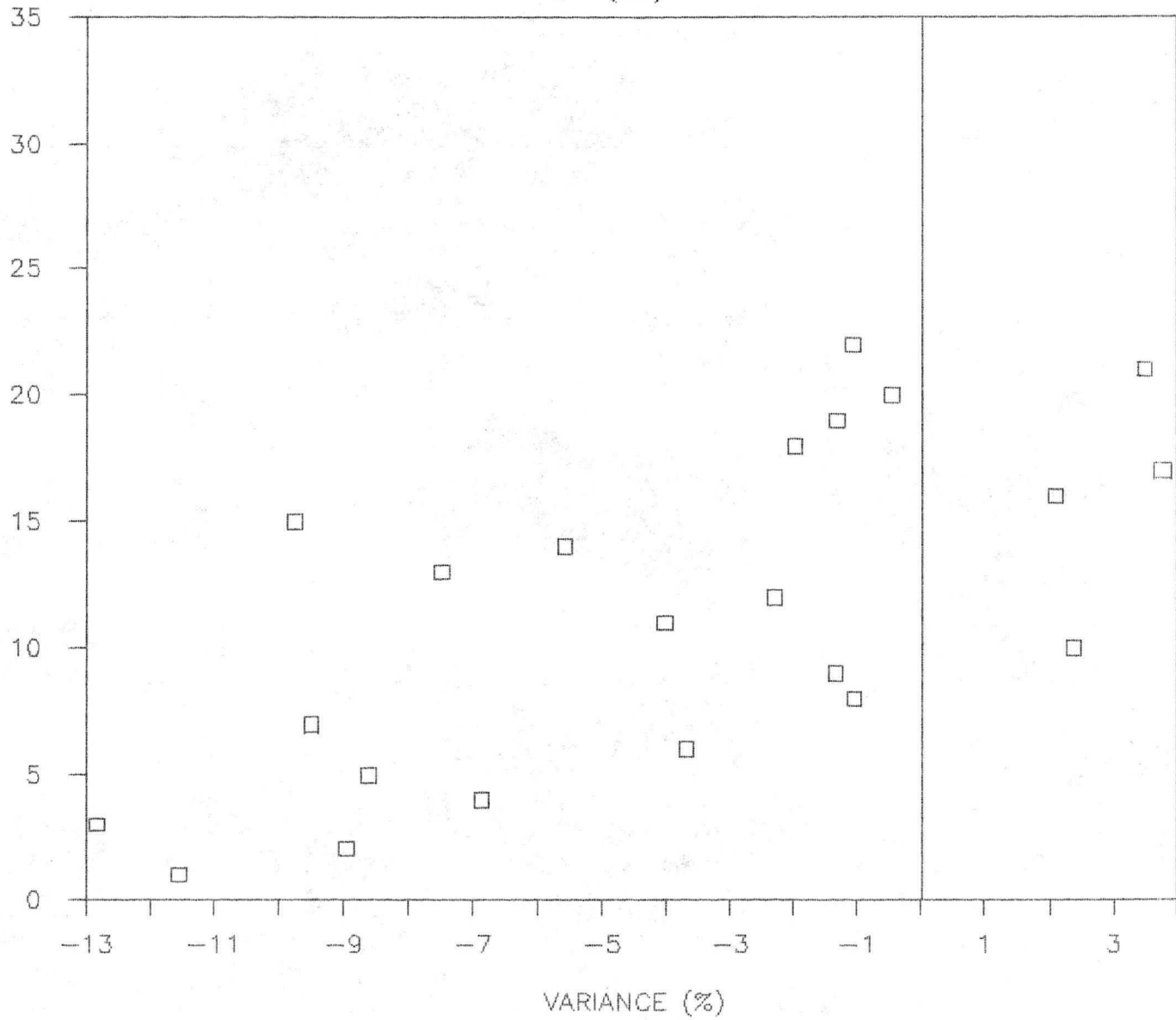
Sample Number Code



1.98

NAL INITIAL Vs. BONDAR PULP
(SG)

Sample Number Code



4.65

2.51

→ Lee -

- 1) could you please clarify my question?
- 4) I find those variances rather large - see Min En check in Hand &
- 3) have you looked at corral creek.

CURRAGH RESOURCES INC.
Inter-Office Memorandum

TO: Gregg A. Jilson
Vice-President, Exploration
Whitehorse Office

FROM: Lee C. Pigage
Senior Geologist
Whitehorse Office

RE: NAL ASSAY CHECK FOR 1989 GRUM DRILLING

DATE: 03 29 1990

Attached are the spreadsheet summaries of assay comparisons between NAL and Bondar-Clegg from 1989 Grum core samples. The following assay checks were completed:

- 1. NAL re-^{a split from original} assayed the pulps ^{pea sized.}
- 2. NAL prepared a split of the [pca] reject and assayed it
- 3. B-C assayed the pulps (original or reprep)

All materials were analyzed for Pb, Zn, Ag, Au, total Fe, Cu and pulp S.G.

The various graphs and tables indicate the following results:

Pb

All check assays are reasonably similar to the original NAL assay. none of the results show any systematic bias. The % variance does not decrease systematically as the amount of Pb in the sample increases; it appears to cluster within $\pm 20\%$.
= rather large isn't it

Zn

Check assays by Bondar-Clegg correspond very well with the original NAL analyses. NAL pulp and reject check assays are systematically slightly higher than the original assays, indicating a possible contamination and/or calibration problem. The % variance clustered within $\pm 10\%$ for most zinc assay comparisons.

Ag

Ag check assays show much greater variability when compared to the original assays. This may be partly related to a nugget effect. Correlation coefficients between the original assays and the check assays remain high. The NAL pea check assays show a slight positive bias relative to the original analysis. This suggests a possible calibration and/or contamination problem.

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Memorandum
March 30, 1990
Page Two

Au

Au check assays are also highly variable. NAL initial assays compare very well with Bondar-Clegg check assays. NAL pea and pulp check assays are systematically high; indicating a calibration and/or contamination problem. NAL original assays may slightly over-estimate Au for low Au samples when compared to Bondar-Clegg assays.

Cu

Assay comparisons for Cu show reasonable correspondence. The amount of Cu is low in all samples and relative variances are therefore expected to be moderately high.

Total Fe

NAL total Fe analyses are systematically lower than the Bondar-Clegg check assays. NAL samples were digested with aqua regia. Bondar-Clegg used a multi-acid digestion. Obviously the NAL samples did not completely digest the Fe-bearing minerals.

Pulp S.G.

NAL initial analyses have systematically lower S.G. values compared to Bondar-Clegg and NAL pea check analyses. To be in line with Bondar-Clegg results, NAL initial values would need to be increased by at least 3%.

RECOMMENDATIONS

NAL results for Pb, Zn, Ag, Au and Cu are reasonable when compared to Bondar-Clegg check assays and can be used in Grum composite calculations. Some of the check assays suggest that NAL may have a slight calibration and/or contamination problem. Further use of NAL should incorporate a duplicate sample testing procedure to verify their quality control.

Multi-acid digestion should be used for all future total Fe analyses.

NAL pulp S.G. results are systematically slightly low. Their sample and analysis methods should be checked for possible problems.


LCP*geb

faro\grumem28.lcp

CURRAGH RESOURCES INC.

Inter-Office Memorandum

TO: Janet Nyberg
Exploration Coordinator
Whitehorse Office

FROM: Cam Reed
Geologist
Whitehorse Office

cc: Whitehorse Office
Gregg A. Jilson, Vice-President, Exploration
Lee C. Pigage, Senior Geologist

RE: 1989 GRUM ASSAY RESULTS FROM NORTHERN
ANALYTICAL LABORATORIES LTD.

DATE: 12 21 1989

The following chart details an assay check program of the 1989 901 Grum diamond drill core sample analysis completed at Northern Analytical Laboratories (N.A.) in Whitehorse. The program is designed to evaluate the sample preparation, assay accuracy and assay precision of N.A.

Table 1 is a list of randomly selected samples ^{45?} (46 in total) which are to be tested. The list is 5% of the total drill core samples sent to N.A. from the Grum 1989 program. Two samples are to be split from the original pulp sample (a minimum of 50 grams each) and given a new sample number which may be referenced back to the original number. One sample shall be reassayed at N.A. and the other sent out to Bondar-Clegg for assays.

All samples (Table 1) will be reassayed for Au (fire assay), Ag (A.A.), % Pb (A.A.), % Zn (A.A.), total FE (AA) and Pulp S.G. (Pulp S.G. will be reassayed if there is enough sample.) Cu?

Table 2 is a list of 25 randomly selected samples from Table 1. Pea sized samples on this list shall be retrieved and sent back to N.A. for resampling, repulverization, and reassay.

Comparison of the assay variances between the split pulp samples and the original assay obtained from the same pulp will check the assay precision and accuracy of N.A. Comparison of these results to the reprepared samples in Table 2 will give an indication of the sampling accuracy of N.A.

GRUM 1989 ASSAY CHECK PROGRAM

Original N.A.
Prepared Pulps

Random 5% of Pulps
(45 Samples)

-----50%----->

Pea Sized Rejects
(25 Samples)

Split

Re-assay at N.A.

Re-assay Bondar-Clegg
(perhaps at 2 labs)

Prepare & Re-assay
at N.A.

Check Assay
Precision

Check Accuracy

Check Sampling
Accuracy

Due to lack of pulp sample (Table 1), it is unlikely that pulp S.G. may be re-analyzed from the existing pulps. Approximately 100-150 grams of sample is required for pulp S.G. determination. I suggest sending 25 samples split from the pea sized rejects to another lab for S.G. analysis. Table 3 contains a list of 25 randomly selected samples from Table 1 for this purpose.

Graph #1 is a histogram of the %Pb+Zn frequency distribution for all 1989 Grum samples sent to N.A. Graph #2 is a histogram of the %Pb+Zn frequency distribution of the randomly selected check samples (Table 1). The randomly selected samples are representative of the grade distribution seen in the entire 901 samples assayed at N.A.

The estimated cost of the assay check program is \$2,500.00 (approximately \$25.00 per sample).

N.A. has requested that we send them the results of this check program.

CR*geb

COL.3 (PEA) CHECK N.A.L.	COL.2 (PULP) HOLE NUMBER	COL.4 (PULP) CHECK N.A.L.	COL.1 CHECK # B.C.	COL.1 SAMPLE NUMBER	ROCK CODE	COL. 1 INITIAL %Pb N.A.L.	COL. 2 (PULP) %Pb N.A.L.	COL. 3 (PEA) %Pb N.A.L.	COL. 4 (PULP) %Pb B.C.	[(1-2)/1] N.A.L. %Pb VARIANCE	[(1-3)/1] N.A.L. %Pb VARIANCE	[(1-4)/1] NAL:BC %Pb VARIANCE
	896-10	P-01		14758	4A4	1.8	1.82		1.78	-1.11%		1.11%
	896-10	P-02		14775	5DB	1.07	1.13		1.04	-5.61%		2.80%
	896-10	P-03		14777	5D	0.47	0.48		0.47	-2.13%		0.00%
	896-10	P-04		14790	4C5	0.13	2.13		2.1			
	896-10	P-05		14791	4A0	0.25	1.07					
	896-11	P-06		14816	5B269	0.56	0.64		0.61	-14.29%		-8.93%
	896-11	P-07		14819	4A0	1.31	1.28		1.31	2.29%		0.00%
G-1	896-11	P-08	14823	14823	4CA	1.5	1.59	1.83		-6.00%	-22.00%	
G-2	896-13	P-09	14849	14849	4A0	1.62	1.75	1.49	1.78	-8.02%	8.02%	-9.85%
G-3	896-13	P-10	14863	14863	4A4	2.56	2.81	2.57	2.7	-9.77%	-0.39%	-5.47%
G-4	896-13	P-11	14870	14870	4C5	1.31	1.3	1.33	1.3	0.76%	-1.53%	0.76%
G-5	896-17	P-12	14882	14882	4A44	4.25	4.27	4.42	4.2	-0.47%	-4.00%	1.18%
G-6	896-17	P-13	14896	14896	4C5	1.15	1.25	1.02		-8.70%	11.30%	
G-7	896-17	P-14	14904	14904	4A0	1.44	1.53	1.57	1.58	-6.25%	-9.03%	-9.72%
G-8	896-17	P-15	14907	14907	4A0	1.2	1.38	1.27	1.85	-15.00%	-5.83%	-54.17%
G-9	896-16	P-16	14924	14924	4AD	1.99	2.5	2.35	2.56	-25.63%	-18.09%	-28.64%
G-10	896-16	P-17	14925	14925	5C/4D	0.48	0.76	0.64	0.76	-58.33%	-33.33%	-58.33%
	896-16	P-18		14941	4EA4	2.71	2.11		2.16	22.14%		20.30%
	896-18	P-19		14952	4D0	2.35	1.83		1.82	22.13%		22.55%
	896-18	P-20		14970	4A34	5.81	4.37		4.5	24.78%		22.55%
	896-18	P-21		14977	4C53	1.46	1.22		1.2	16.44%		17.81%
	896-21	P-22		14999	4E18	1.71	1.7		1.71	0.58%		0.00%
		P-23		15440			0.01		0.02			
		P-24		15447			0.02		0.08			
		P-25		15454			0.01		0.01			
		P-26		15462			0.01		0.02			
		P-27		15714			0.01		0.01			
	896-20	P-28		37002	4A0	1.48	1.5		1.6	-1.35%		-8.11%
	896-20	P-29		37006	4E4	16.18	14.2		14.05	12.24%		13.16%
	896-20	P-30		37010	4A0	1.06	1.18		1.18	-11.32%		-11.32%
G-12	896-19	P-31	37025	37025	4A08	0.2	0.21	0.25	0.39	-5.00%	-25.00%	-95.00%
G-13	896-19	P-32	37050	37050	4L24	1.29	1.41	1.16	1.31	-9.30%	10.08%	-1.55%
G-14	896-23	P-33	37136	37136	4H135	0.6	0.66	0.62	0.66	-10.00%	-3.33%	-10.00%
G-15	896-23	P-34	37139	37139	4A4	1.75	1.9	1.95	2	-8.57%	-11.43%	-14.29%
	896-15	P-35		37168	4A0	0.05	0.1		0.09			
G-16	896-15	P-36	37177	37177	4D0	1.72	1.66	1.54	1.78	3.49%	10.47%	-3.49%
G-17	896-15	P-37	37191	37191	4C5	1.11	1.07	1.1	1.1	3.60%	0.90%	0.90%
G-18	896-15	P-38	37200	37200	4AC	0.66	0.79	0.74	0.84	-19.70%	-12.12%	-27.27%
G-19	896-25	P-39	37231	37231	4E4	6.26	6.62	6.89	6.53	-5.75%	-10.06%	-4.31%
	896-14	P-40		41954	4A44	3.13	3.04			2.88%		
	896-14	P-41		41960	5D6	0.02	0.07		0.05			
	896-14	P-42		41982	4DAE	1.25	1.35		1.9	-8.00%		-52.00%
	896-14	P-43		41984	4A0	1.16	1.14		1.17	1.72%		-0.86%
	896-14	P-44		41988	4A0	1.16	1.13		1.29	2.59%		

=====

AVERAGE VALUE -----> 1.95 1.75 1.82 1.79 -3.56% -6.41% -9.68%

=====

***** SAMPLE CODES FOR VARIANCE PLOTS *****

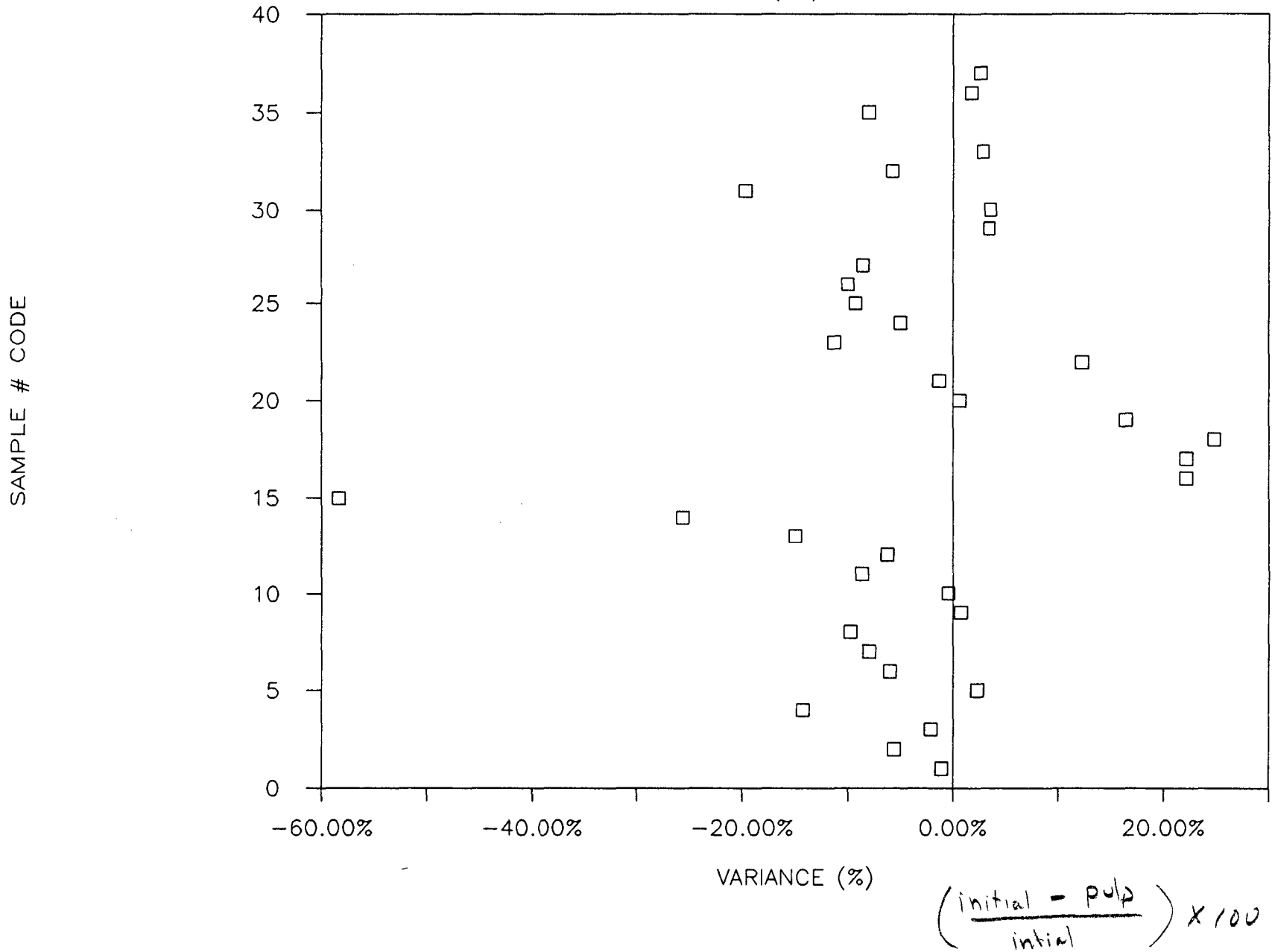
NAL:BONDAR		NAL:NAL		NAL:NAL	
INITIAL:PULP	SAMPLE SAMPLE	INITIAL Vs PEA	SAMPLE SAMPLE	INITIAL:PULP	SAMPLE SAMPLE
CODE NUMBER	CODE NUMBER	CODE NUMBER	CODE NUMBER	CODE NUMBER	CODE NUMBER
1	14758	1	14823	1	14758
2	14775	2	14849	2	14775
3	14777	3	14863	3	14777
4	14816	4	14870	4	14816
5	14819	5	14882	5	14819
6	14849	6	14896	6	14823
7	14863	7	14904	7	14849
8	14870	8	14907	8	14863
9	14882	9	14924	9	14870
10	14904	10	14925	10	14882
11	14907	11	37025	11	14896
12	14924	12	37050	12	14904
13	14925	13	37136	13	14907
14	14941	14	37139	14	14924
15	14952	15	37177	15	14925
16	14970	16	37191	16	14941
17	14977	17	37200	17	14952
18	14999	18	37231	18	14970
19	37002	19		19	14977
20	37006	20		20	14999
21	37010	21		21	37002
22	37025	22		22	37006
23	37050	23		23	37010
24	37136	24		24	37025
25	37139	25		25	37050
26	37168	26		26	37136
27	37177	27		27	37139
28	37191	28		28	37168
29	37200	29		29	37177
30	37231	30		30	37191
31	41960	31		31	37200
32	41982	32		32	37231
33	41984	33		33	41954
34	41988	34		34	41960
		35		35	41982
		36		36	41984
		37		37	41988

SAMPLE NUMBER	INITIAL %Pb N.A.L.	(PULP) %Pb N.A.L.
14758	1.8	1.82
14775	1.07	1.13
14777	0.47	0.48
14816	0.56	0.64
14819	1.31	1.28
14823	1.5	1.59
14849	1.62	1.75
14863	2.56	2.81
14907	1.2	1.27
14924	1.99	2.35
14925	4.25	4.27
14896	1.15	1.25
14904	1.44	1.53
14907	1.2	1.38
14924	1.99	2.5
14925	0.48	0.76
14941	2.71	2.11
14952	2.35	1.83
14970	5.81	4.37
14977	1.46	1.22
14999	1.71	1.7
37002	1.48	1.5
37006	16.18	14.2
37010	1.06	1.18
37025	0.2	0.21
37050	1.29	1.41
37136	0.6	0.66
37139	1.75	1.9
37168	0.05	0.1
37177	1.72	1.66
37191	1.11	1.07
37200	0.66	0.79
37231	6.26	6.62
41954	3.13	3.04
41960	0.02	0.07
41982	1.25	1.35
41984	1.16	1.14
41988	1.16	1.13

DATA FOR XY PLOTS

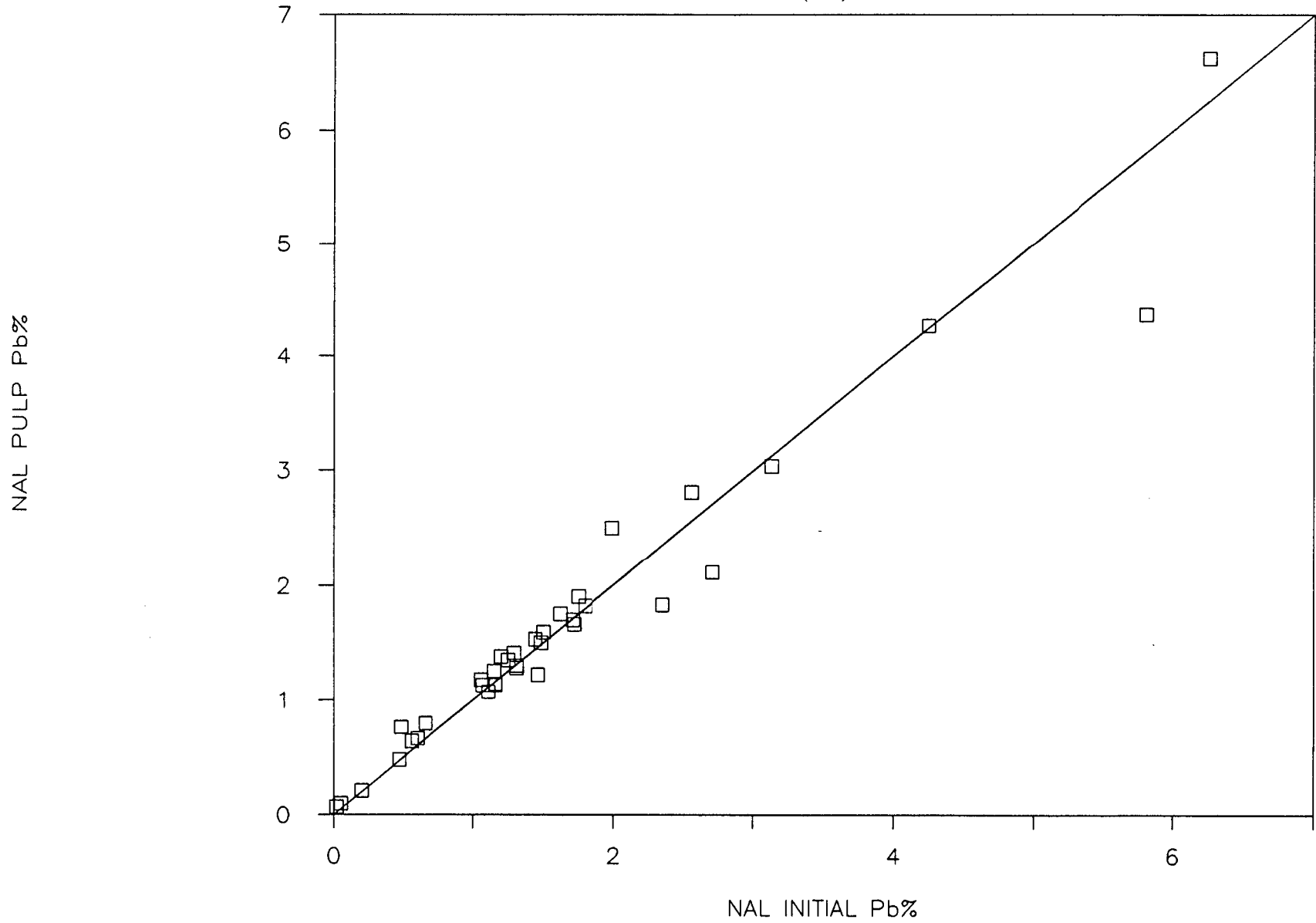
SAMPLE NUMBER	INITIAL %Pb N.A.L.	(PEA) %Pb N.A.L.	SAMPLE NUMBER	INITIAL %Pb N.A.L.	(PULP) %Pb B.C.
14823	1.5	1.83	14758	1.8	1.78
14849	1.62	1.49	14775	1.07	1.04
14863	2.56	2.57	14777	0.47	0.47
14870	1.31	1.33	14816	0.56	0.61
14882	4.25	4.42	14819	1.31	1.31
14896	1.15	1.02	14849	1.62	1.78
14904	1.44	1.57	14863	2.56	2.7
14907	1.2	1.27	14870	1.31	1.3
14924	1.99	2.35	14882	4.25	4.2
14925	0.48	0.64	14904	1.44	1.58
37025	0.2	0.25	14907	1.2	1.85
37050	1.29	1.16	14924	1.99	2.56
37136	0.6	0.62	14925	0.48	0.76
37139	1.75	1.95	14941	2.71	2.16
37177	1.72	1.54	14952	2.35	1.82
37191	1.11	1.1	14970	5.81	4.5
37200	0.66	0.74	14977	1.46	1.2
37231	6.26	6.89	14999	1.71	1.71
			37002	1.48	1.6
			37006	16.18	14.05
			37010	1.06	1.18
			37025	0.2	0.39
			37050	1.29	1.31
			37136	0.6	0.66
			37139	1.75	2
			37168	0.05	0.09
			37177	1.72	1.78
			37191	1.11	1.1
			37200	0.66	0.84
			37231	6.26	6.53
			41960	0.02	0.05
			41982	1.25	1.9
			41984	1.16	1.17
			41988	1.16	1.29

NAL INITIAL Vs. NAL PULP VARIANCE (Pb)



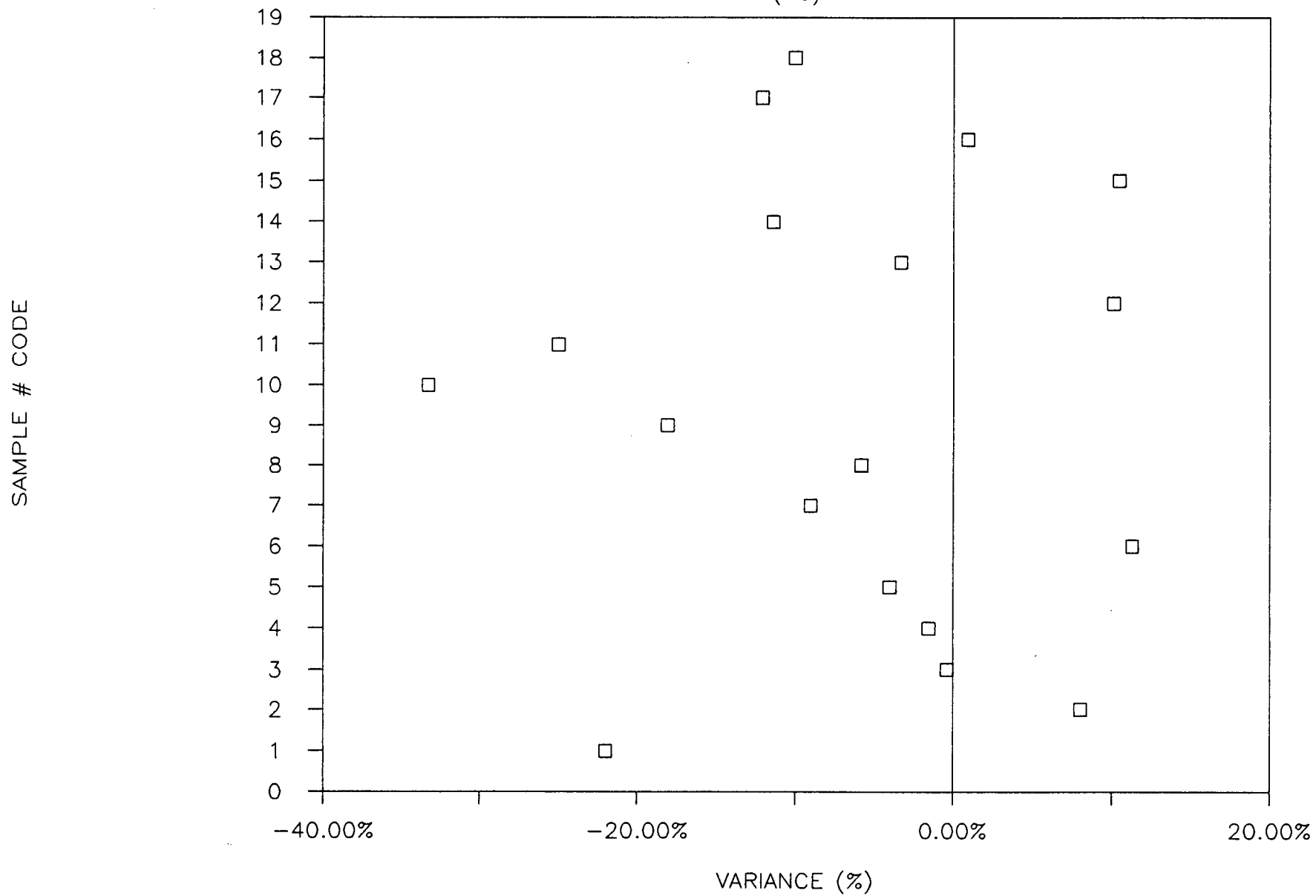
NAL INITIAL Vs. NAL PULP

(Pb)



NAL INITIAL Vs. NAL PEA VARIANCE

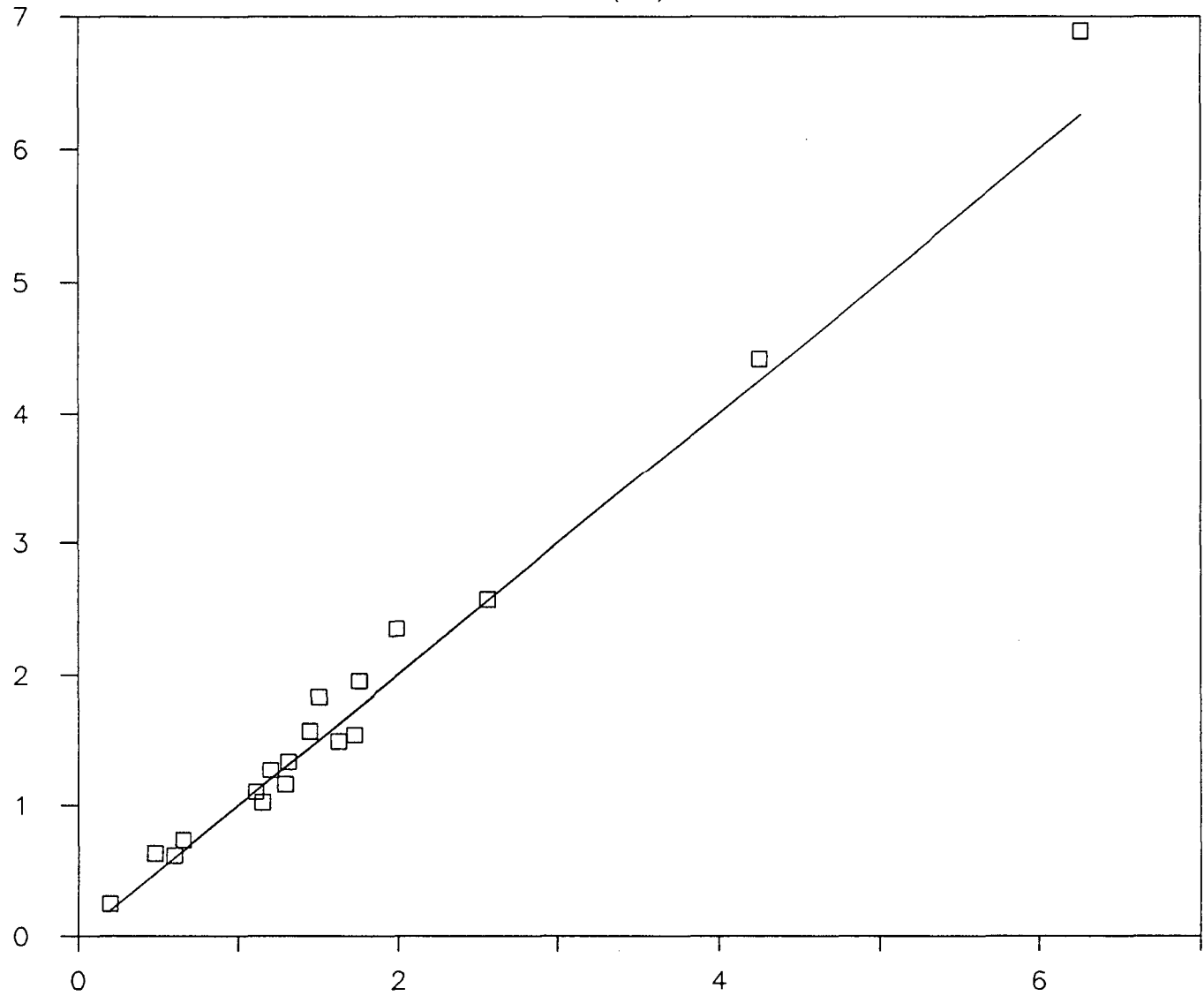
(Pb)



NAL INITIAL Vs. NAL PEA

(Pb)

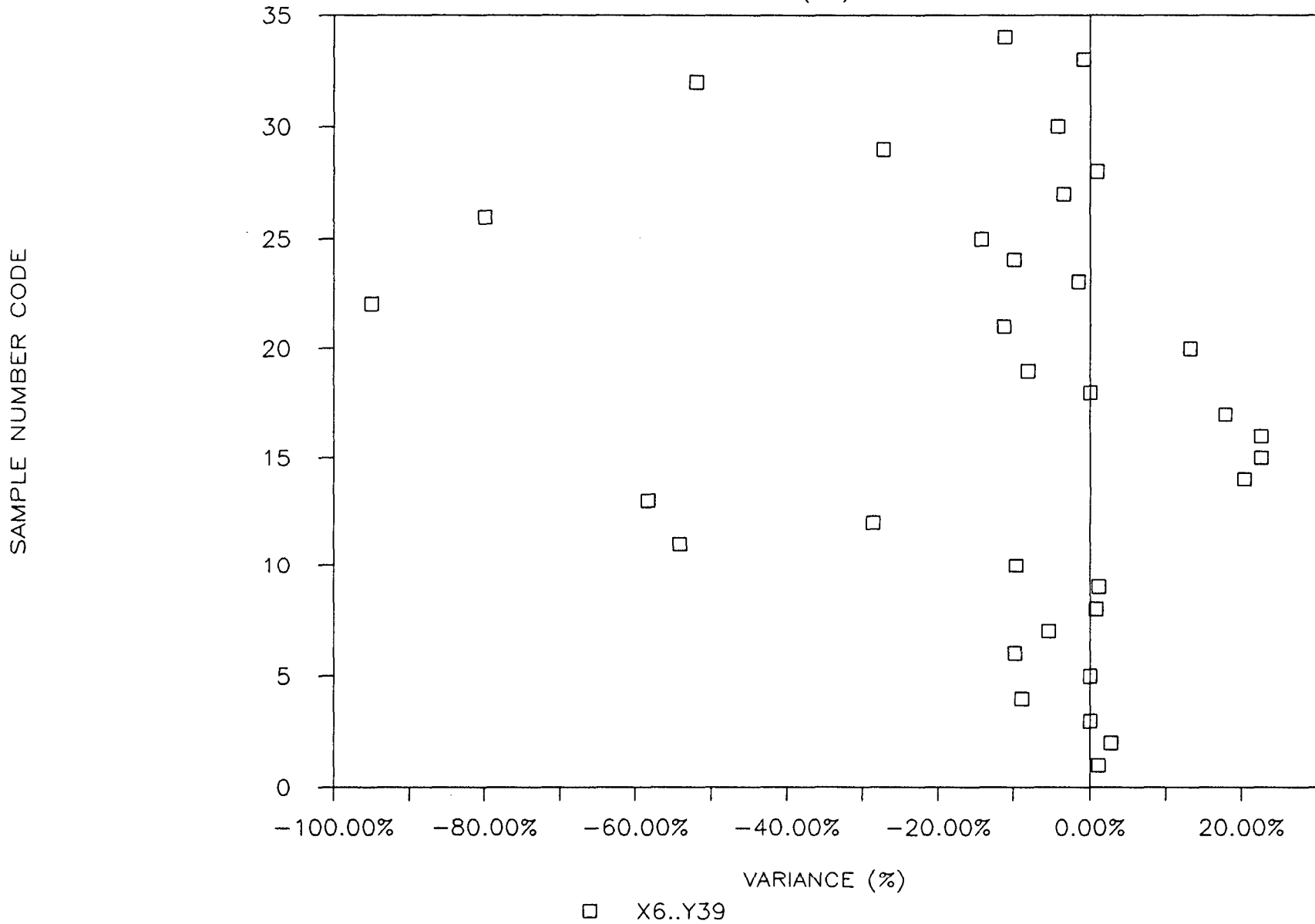
NAL PEA Pb%



NAL INITIAL Pb%

VARIANCE OF NAL INITIAL Vs BONDAR

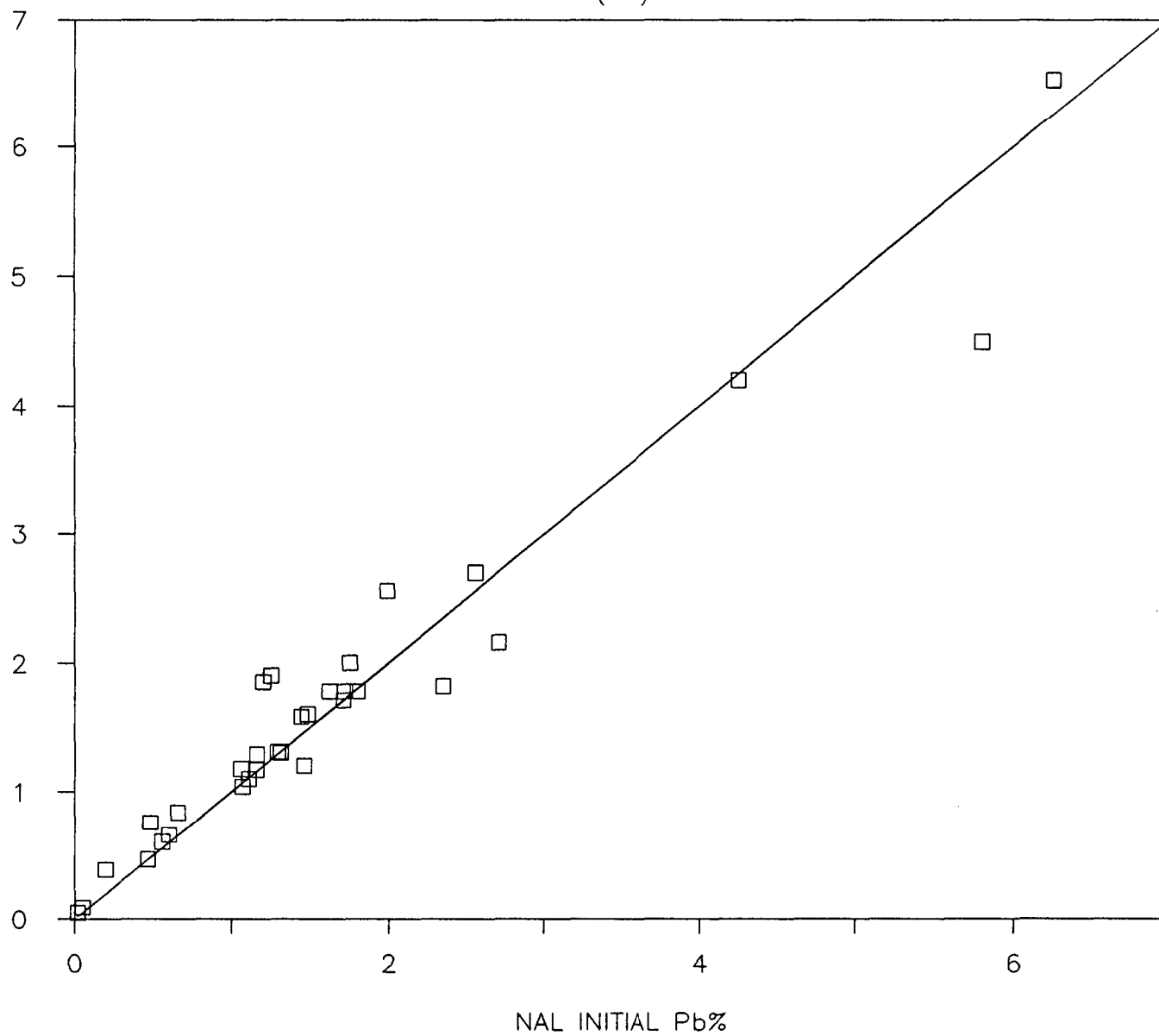
(Pb)



NAL INITIAL Vs. NAL BONDAR PULP

(Pb)

BONDAR PULP Pb%



COL.3 (PEA) CHECK N.A.L.	COL.2 (PULP) HOLE N.A.L.	COL.4 (PULP) CHECK B.C.	COL.1 # SAMPLE NUMBER	ROCK CODE	COL. 1 INITIAL %Zn N.A.L.	COL. 2 (PULP) %Zn N.A.L.	COL. 3 (PEA) %Zn N.A.L.	COL. 4 (PULP) %Zn B.C.	[(1-2)/1] N.A.L %Zn VARIANCE	[(1-3)/1] N.A.L %Zn VARIANCE	[(1-4)/1] NAL:BC %Zn VARIANCE
	896-10	P-01	14758	4A4	4.55	4.49		4.13	1.32%		9.23%
	896-10	P-02	14775	50B	1.22	1.34		1.28	-9.84%		-4.92%
	896-10	P-03	14777	5D	1.16	1.23		1.16	-6.03%		0.00%
	896-10	P-04	14790	4C5	1.79	3.33		2.98			
	896-10	P-05	14791	4A0	1.1	2.24					
	896-11	P-06	14816	5B269	0.95	1.08		1.01	-13.68%		-6.32%
	896-11	F-07	14819	4A0	1.45	1.57		1.54	-8.28%		-6.21%
G-1	896-11	P-08	14823	4CA	3	3.26	3.56		-8.67%	-18.67%	
G-2	896-13	P-09	14849	4A0	3.39	3.46	3.21	3.2	-2.06%	5.31%	5.60%
G-3	896-13	P-10	14863	4A4	4.48	4.77	5.09	4.2	-6.47%	-13.62%	6.25%
G-4	896-13	P-11	14870	4C5	3.19	3.59	3.31	3.4	-12.54%	-3.76%	-6.58%
G-5	896-17	P-12	14882	4A44	7.35	7.63	8.82	7.19	-3.81%	-20.00%	2.18%
G-6	896-17	P-13	14896	4C5	2.43	2.77	2.3		-13.99%	5.35%	
G-7	896-17	P-14	14904	4A0	2.64	2.91	2.9	2.68	-10.23%	-9.85%	-1.52%
G-8	896-17	P-15	14907	4A0	2.66	3.2	3.06	3.66	-20.30%	-15.04%	-37.59%
G-9	896-16	P-16	14924	4AD	4.68	4.68	4.57	4.33	0.00%	2.35%	7.48%
G-10	896-16	P-17	14925	5C/4D	1.61	1.58	1.47	1.47	1.86%	8.70%	8.70%
	896-16	P-18	14941	4E44	5.35	5.53		5.03	-3.36%		5.98%
	896-18	P-19	14952	4D0	3.87	5.41		4.6	-39.79%		-18.86%
	896-18	P-20	14970	4A34	7.05	7.71		7.15	-9.36%		-1.42%
	896-18	P-21	14977	4C53	1.9	2.07		1.96	-8.95%		-3.16%
	896-21	P-22	14999	4E1*	1.7	1.72		1.7	-1.18%		0.00%
		P-23	15440			0.01		0.02			
		P-24	15447			0.01		0.06			
		P-25	15454			0.01		0.01			
		P-26	15462			0.01		0.01			
		P-27	15714			0.01		0.01			
	896-20	P-28	37002	4A0	2.77	2.81		2.7	-1.44%		2.53%
	896-20	P-29	37006	4E4	17.5	19.24		16.48	-9.94%		5.83%
	896-20	P-30	37010	4A0	1.34	1.51		1.38	-12.69%		-2.99%
G-12	896-19	P-31	37025	4A0*	0.14	0.15	0.18	0.26	-7.14%	-28.57%	
G-13	896-19	P-32	37050	4L24	0.75	0.81	0.71	0.79	-8.00%	5.33%	-5.33%
G-14	896-23	P-33	37136	4H135	1.88	2.22	2.16	2.05	-18.09%	-14.89%	-9.04%
G-15	896-23	P-34	37139	4A4	5.9	6.6	6.69	4.07	-11.86%	-13.39%	31.02%
	896-15	P-35	37168	4A0	0.09	0.08		0.1	11.11%		-11.11%
G-16	896-15	P-36	37177	4D0	3.64	3.69	3.26	3.7	-1.37%	10.44%	-1.65%
G-17	896-15	P-37	37191	4C5	2.7	2.93	2.9	2.6	-8.52%	-7.41%	3.70%
G-18	896-15	P-38	37200	4AC	0.99	1.01	0.99	0.99	-2.02%	0.00%	0.00%
G-19	896-25	P-39	37231	4E4	11.2	12.84	13.51	10.68	-14.64%	-20.63%	4.64%
	896-14	P-40	41954	4A44	7.89	7.79			1.27%		
	896-14	P-41	41960	506	0.11	0.14		0.13			
	896-14	P-42	41982	4DAE	2.32	2.43		3.3	-4.74%		-42.24%
	896-14	P-43	41984	4A0	1.32	1.31		1.28	0.76%		3.03%
	896-14	P-44	41988	4A0	3.25	3.26		3.26	-0.31%		-0.31%
AVERAGE VALUE ----->					3.37	3.28	3.82	2.91	-7.31%	-7.13%	-1.97%

***** SAMPLE CODES FOR VARIANCE PLOTS *****

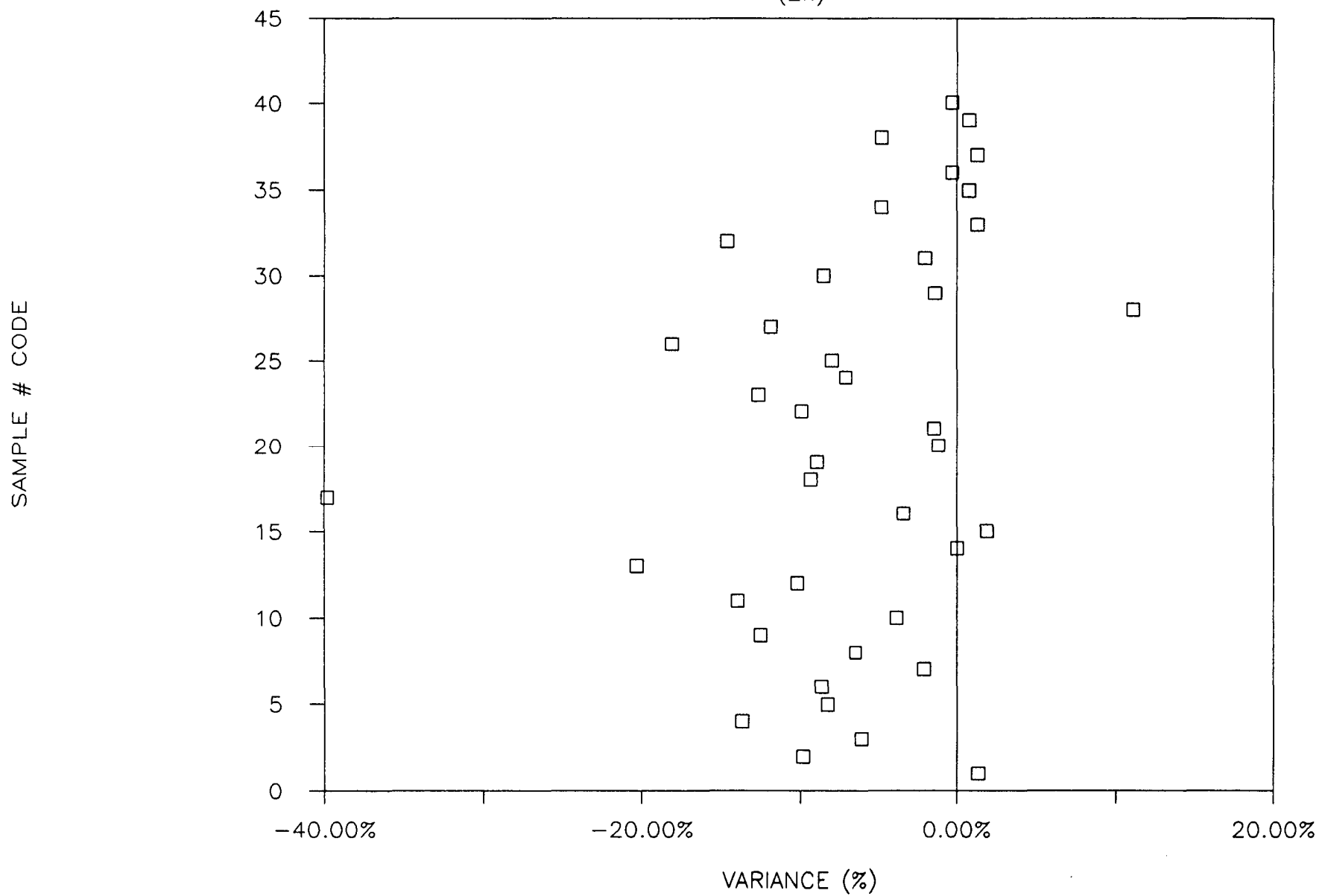
NAL:NAL		NAL:BONDAR		NAL:NAL	
INITIAL:PULP	SAMPLE	INITIAL:PULP	SAMPLE	INITIAL:PEA	SAMPLE
CODE	NUMBER	CODE	NUMBER	CODE	NUMBER
1	14758	1	14758	1	14823
2	14775	2	14775	2	14849
3	14777	3	14777	3	14863
4	14816	4	14816	4	14870
5	14819	5	14819	5	14882
6	14823	6	14849	6	14896
7	14849	7	14863	7	14904
8	14863	8	14870	8	14907
9	14870	9	14882	9	14924
10	14882	10	14904	10	14925
11	14896	11	14907	11	37025
12	14904	12	14924	12	37050
13	14907	13	14925	13	37136
14	14924	14	14941	14	37139
15	14925	15	14952	15	37177
16	14941	16	14970	16	37191
17	14952	17	14977	17	37200
18	14970	18	14999	18	37231
19	14977	19	37002		
20	14999	20	37006		
21	37002	21	37010		
22	37006	22	37050		
23	37010	23	37136		
24	37025	24	37139		
25	37050	25	37168		
26	37136	26	37177		
27	37139	27	37191		
28	37168	28	37200		
29	37177	29	37231		
30	37191	30	41960		
31	37200	31	41982		
32	37231	32	41984		
33	41954	33	41988		
34	41982				
35	41984				
36	41988				
37	41954				
38	41982				
39	41984				
40	41988				

***** DATA FOR XY PLOTS *****

INITIAL (PULP)			INITIAL (PULP)			INITIAL (PEA)		
SAMPLE	%Zn	(PULP)	SAMPLE	%Zn	(PULP)	SAMPLE	%Zn	(PEA)
NUMBER	N.A.L.	N.A.L.	NUMBER	N.A.L.	B.C.	NUMBER	N.A.L.	N.A.L.
14758	4.55	4.49	14758	4.55	4.13	14823	3	3.56
14775	1.22	1.34	14775	1.22	1.28	14849	3.39	3.21
14777	1.16	1.23	14777	1.16	1.16	14863	4.48	5.09
14816	0.95	1.08	14816	0.95	1.01	14870	3.19	3.31
14819	1.45	1.57	14819	1.45	1.54	14882	7.35	8.82
14823	3	3.26	14849	3.39	3.2	14896	2.43	2.3
14849	3.39	3.46	14863	4.48	4.2	14904	2.64	2.9
14863	4.48	4.77	14870	3.19	3.4	14907	2.66	3.06
14870	3.19	3.59	14882	7.35	7.19	14924	4.68	4.57
14882	7.35	7.63	14904	2.64	2.68	14925	1.61	1.47
14896	2.43	2.77	14907	2.66	3.66	37025	0.14	0.18
14904	2.64	2.91	14924	4.68	4.33	37050	0.75	0.71
14907	2.66	3.2	14925	1.61	1.47	37136	1.88	2.16
14924	4.68	4.68	14941	5.35	5.03	37139	5.9	6.69
14925	1.61	1.58	14952	3.87	4.6	37177	3.64	3.26
14941	5.35	5.53	14970	7.05	7.15	37191	2.7	2.9
14952	3.87	5.41	14977	1.9	1.96	37200	0.99	0.99
14970	7.05	7.71	14999	1.7	1.7	37231	11.2	13.51
14977	1.9	2.07	37002	2.77	2.7			
14999	1.7	1.72	37006	17.5	16.48			
37002	2.77	2.81	37010	1.34	1.38			
37006	17.5	19.24	37050	0.75	0.79			
37010	1.34	1.51	37136	1.88	2.05			
37025	0.14	0.15	37139	5.9	4.07			
37050	0.75	0.81	37168	0.09	0.1			
37136	1.88	2.22	37177	3.64	3.7			
37139	5.9	6.6	37191	2.7	2.6			
37168	0.09	0.08	37200	0.99	0.99			
37177	3.64	3.69	37231	11.2	10.68			
37191	2.7	2.93	41960	0.11	0.13			
37200	0.99	1.01	41982	2.32	3.3			
37231	11.2	12.84	41984	1.32	1.28			
41954	7.89	7.79	41988	3.25	3.26			
41982	2.32	2.43						
41984	1.32	1.31						
41988	3.25	3.26						
41954	7.89	7.79						
41982	2.32	2.43						
41984	1.32	1.31						
41988	3.25	3.26						

NAL INITIAL Vs. NAL PULP VARIANCE

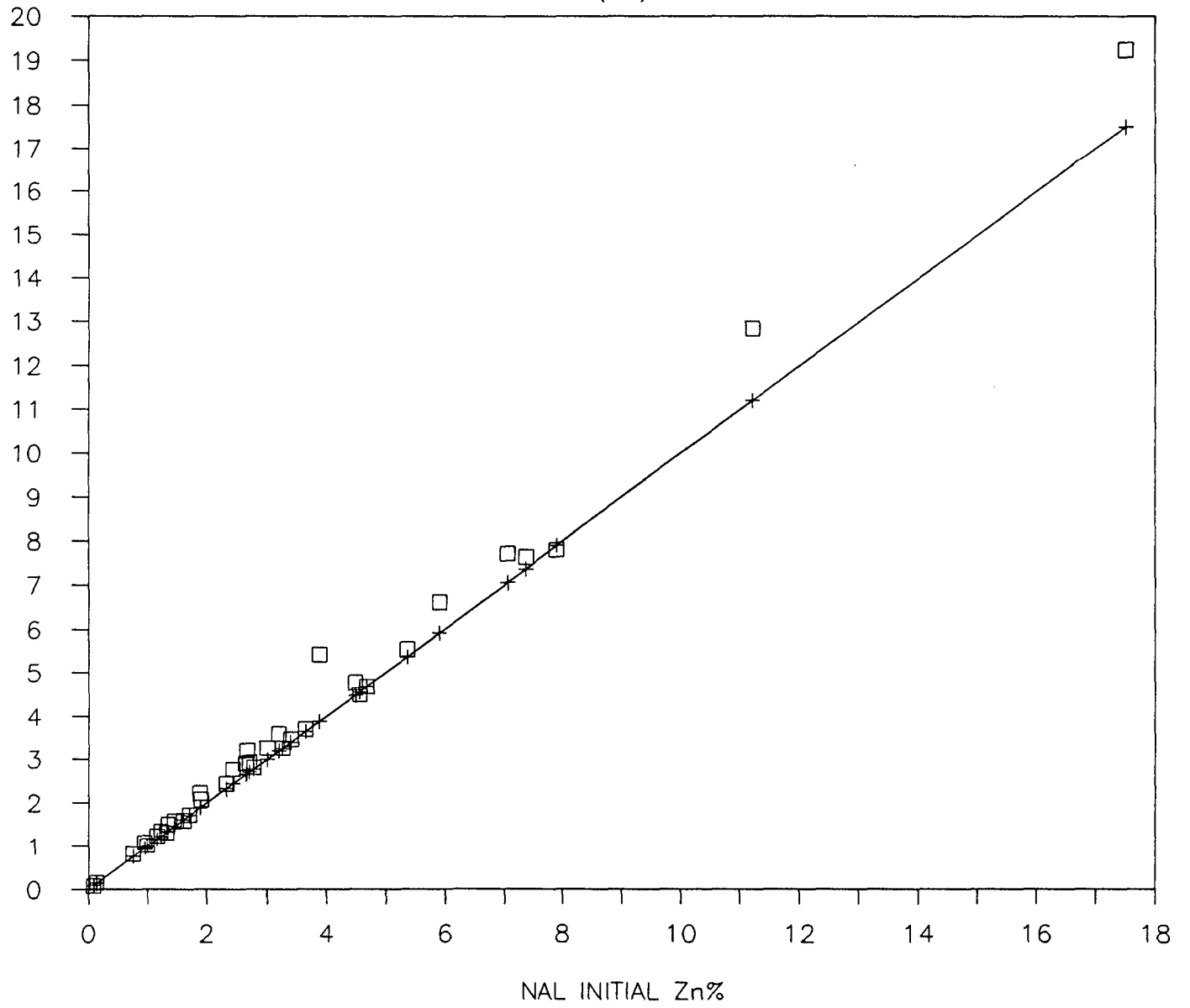
(Zn)



NAL INITIAL Vs. NAL PULP

(Zn)

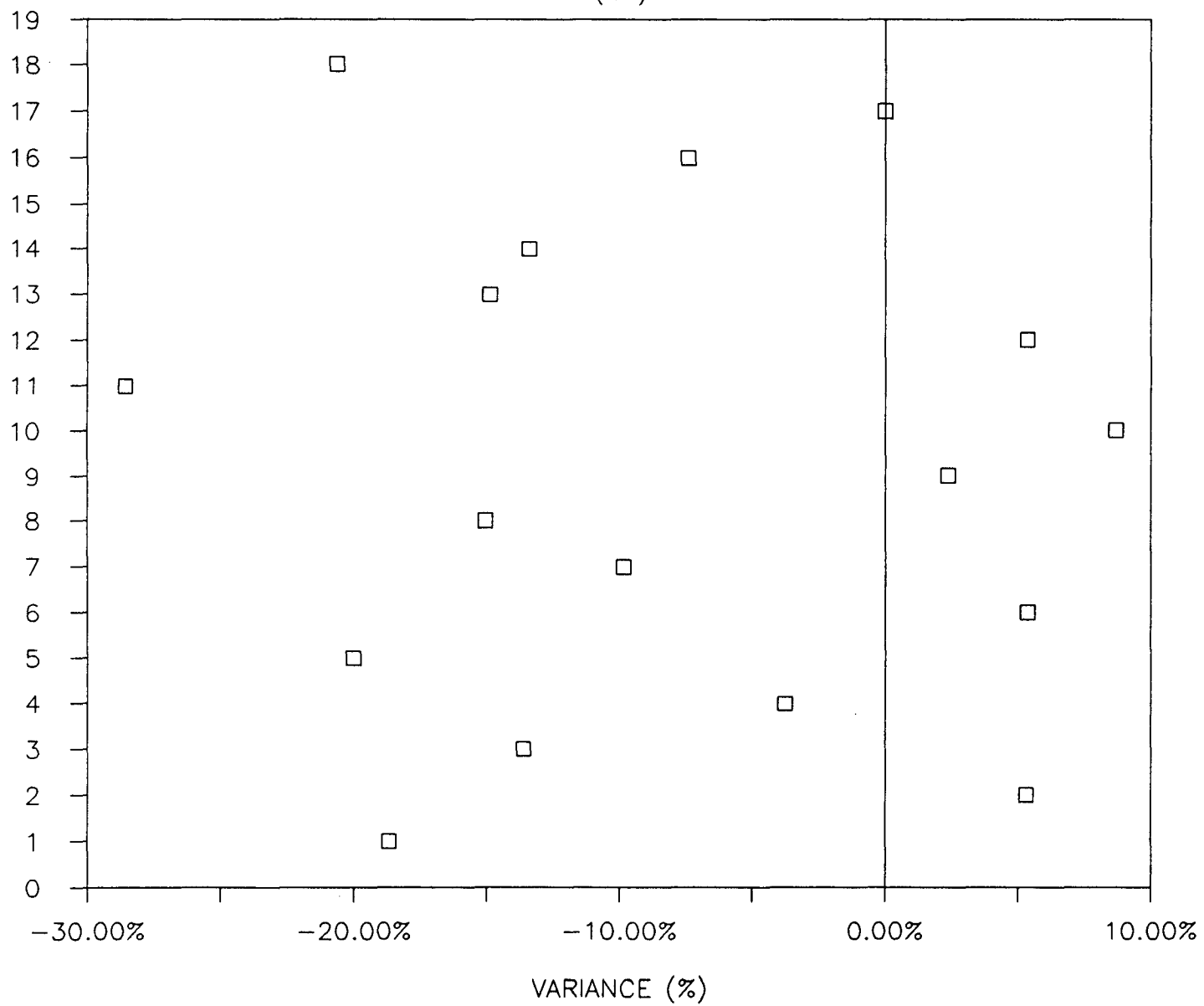
NAL PULP Zn%



NAL INITIAL Vs. NAL PEA VARIANCE

(Zn)

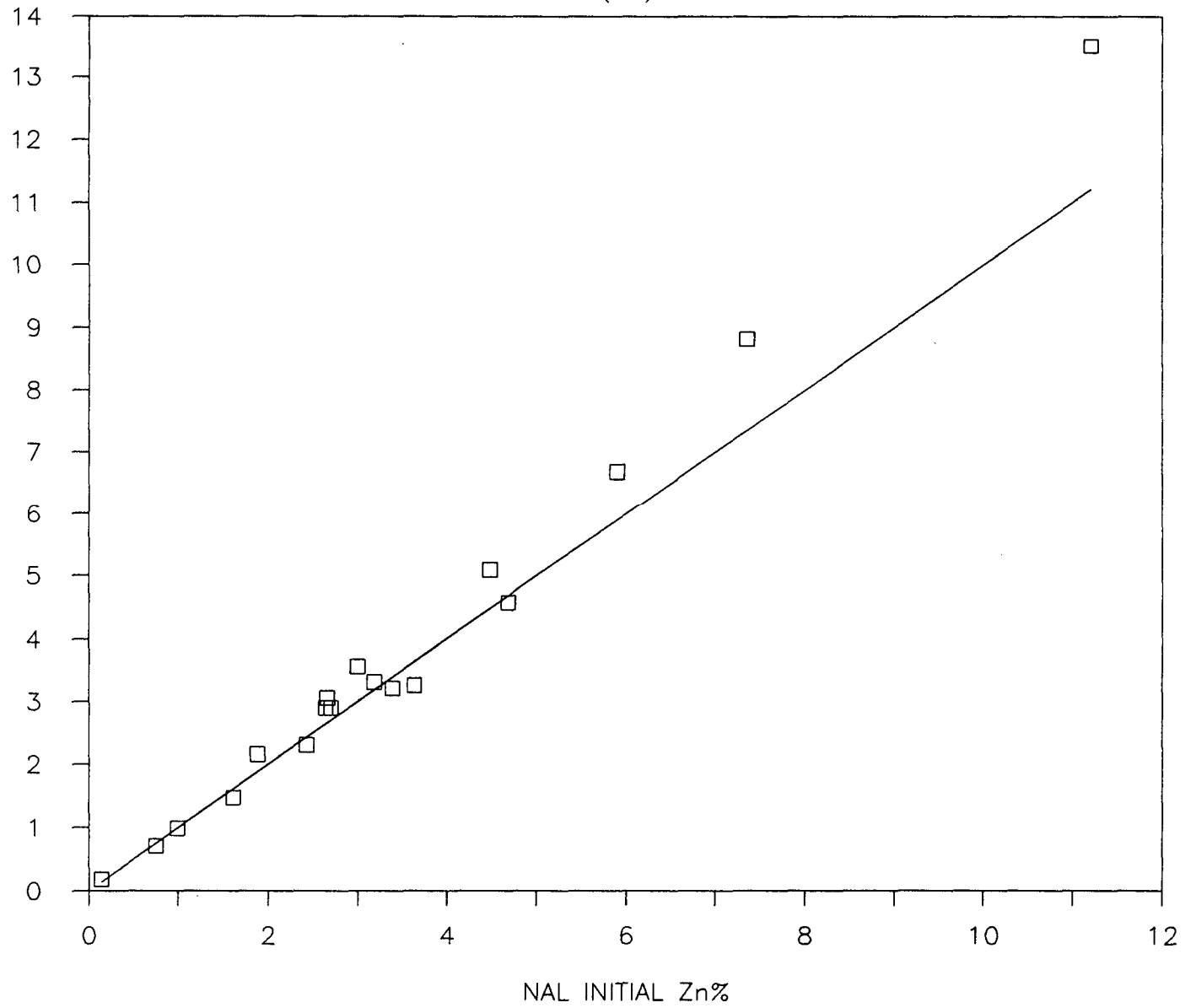
SAMPLE # CODE



NAL INITIAL Vs. NAL PEA

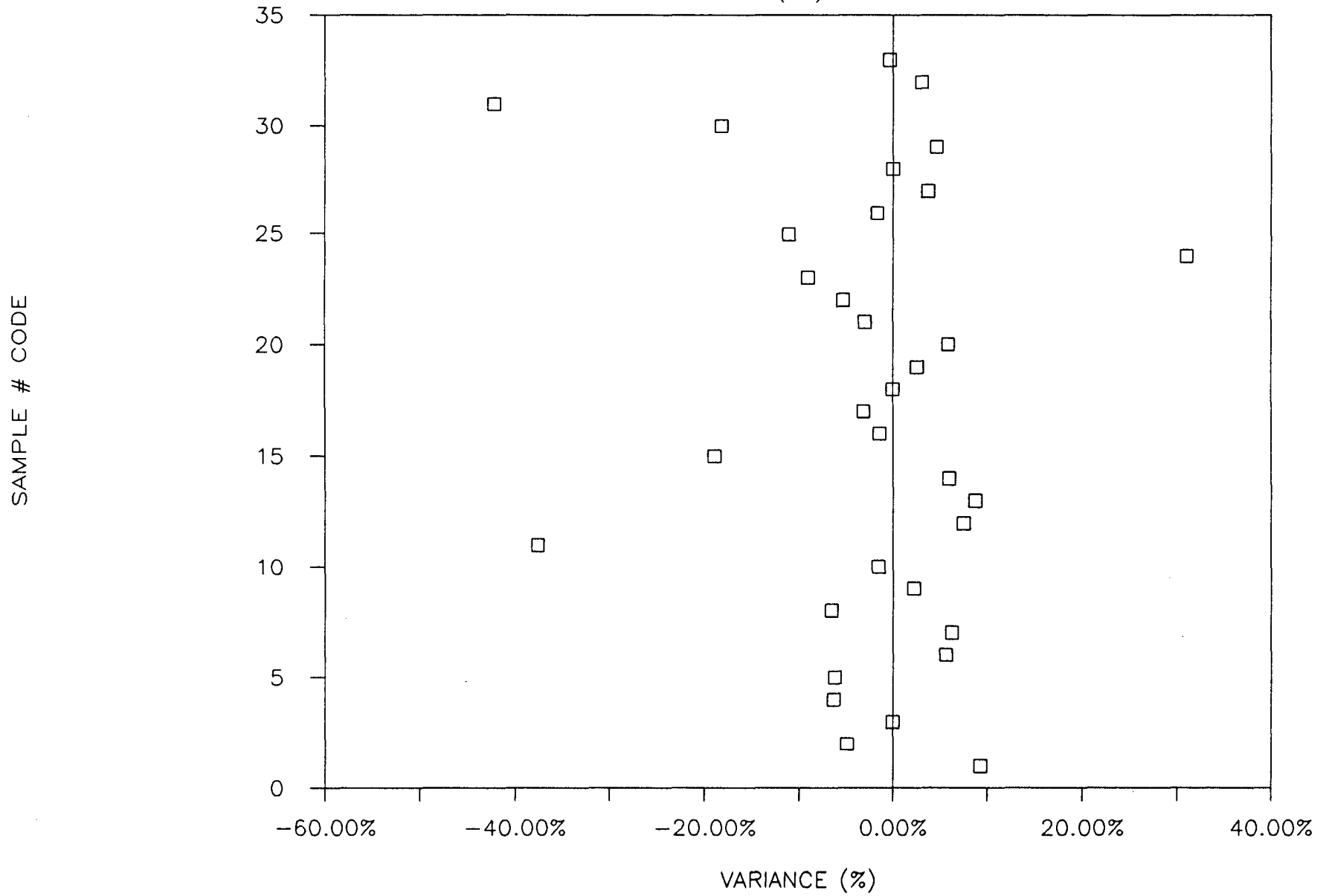
(Zn)

NAL PEA Zn%



NAL INITIAL Vs. BONDAR PULP VARIANCE

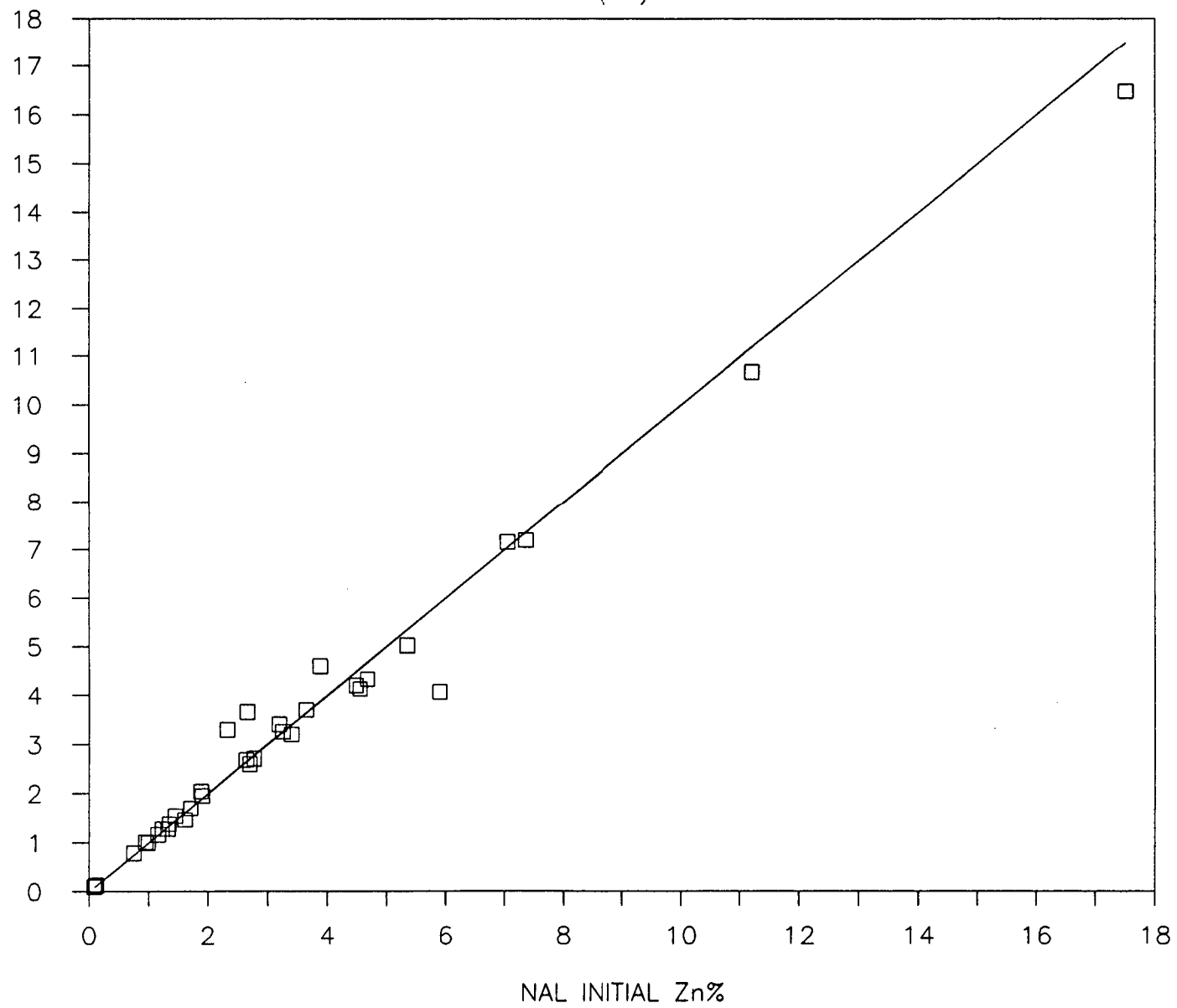
(Zn)



NAL INITIAL Vs. BONDAR PULP

(Zn)

BONDAR PULP Zn%



COL.3 (PEA) CHECK N.A.L.	COL.2 (PULP) HOLE NUMBER	COL.4 (PULP) CHECK # B.C.	COL.1 SAMPLE NUMBER	ROCK CODE	COL. 1 INITIAL Ag N.A.L.	COL. 2 (PULP) Ag N.A.L.	COL. 3 (PEA) Ag N.A.L.	COL. 4 (PULP) Ag B.C.	[(1-2)/1] N.A.L Ag VARIANCE	[(1-3)/1] N.A.L Ag VARIANCE	[(1-4)/1] NAL:BC Ag VARIANCE
	896-10	P-01	14758	4A4	36	38.7		35.3	-7.50%		1.94%
	896-10	P-02	14775	5DB	26	12.3		15.1	52.69%		41.92%
	896-10	P-03	14777	5D	18	6.4		8.9	64.44%		50.56%
	896-10	P-04	14790	4C5	14	23.6		30.9			
	896-10	P-05	14791	4A0	12	21.9					
	896-11	P-06	14816	5B269	11	11.2		11.7	-1.82%		-6.36%
	896-11	P-07	14819	4A0	19	20		24	-5.26%		-26.32%
G-1	896-11	P-08	14823	14823	4CA	28	29.6	32.2	-5.71%	-15.00%	
G-2	896-13	P-09	14849	14849	4A0	11	32.4	29.3	-194.55%	-166.36%	-177.27%
G-3	896-13	P-10	14863	14863	4A4	22	41.5	27.8	-88.64%	-26.36%	-118.18%
G-4	896-13	P-11	14870	14870	4C5	21	25.6	31.2	-21.90%	-48.57%	-38.10%
G-5	896-17	P-12	14882	14882	4A44	55	63.6	77.1	-15.64%	-40.18%	-21.64%
G-6	896-17	P-13	14896	14896	4C5	22	17.5	19.9	20.45%	9.55%	
G-7	896-17	P-14	14904	14904	4A0	24	27.3	29.3	-13.75%	-22.08%	-17.08%
G-8	896-17	P-15	14907	14907	4A0	19	27.5	26.3	-44.74%	-38.42%	-80.53%
G-9	896-16	P-16	14924	14924	4AD	24	29.8	34.4	-24.17%	-43.33%	-60.00%
G-10	896-16	P-17	14925	14925	5C/4D	7	9.6	9.7	-37.14%	-38.57%	-75.71%
	896-16	P-18	14941	4EA4	49	43.4		51.4	11.43%		-4.90%
	896-18	P-19	14952	4D0	30	20.7		33.9	31.00%		-13.00%
	896-18	P-20	14970	4A34	60	72.4		72.3	-20.67%		-20.50%
	896-18	P-21	14977	4C53	18	17.8		21.9	1.11%		-21.67%
	896-21	P-22	14999	4E1\$	23	24.4		32.6	-6.09%		-41.74%
		P-23	15440			1.5		2.1			
		P-24	15447			11.1		11.7			
		P-25	15454			1.1		1.4			
		P-26	15462			3.5		3.4			
		P-27	15714			0.1		0.7			
	896-20	P-28	37002	4A0	26	24		29.5	7.69%		-13.46%
	896-20	P-29	37006	4E4	195	316		222.2	-62.05%		-13.95%
	896-20	P-30	37010	4A0	21	22.6		24.3	-7.62%		-15.71%
G-12	896-19	P-31	37025	37025	4A0\$	8	8.9	7.8	-11.25%	2.50%	-53.75%
G-13	896-19	P-32	37050	37050	4L24	10	13.3	14.4	-33.00%	-44.00%	-65.00%
G-14	896-23	P-33	37136	37136	4H135	8	11.5	11.3	-43.75%	-41.25%	-41.25%
G-15	896-23	P-34	37139	37139	4A4	31	26.6	28.1	14.19%	9.35%	9.35%
	896-15	P-35	37168	4A0	4	3.6		4.1	10.00%		-2.50%
G-16	896-15	P-36	37177	37177	4D0	18	21.5	19	-19.44%	-5.56%	-45.00%
G-17	896-15	P-37	37191	37191	4C5	23	21.4	21.3	6.96%	7.39%	9.13%
G-18	896-15	P-38	37200	37200	4AC	16	15.1	13.6	5.63%	15.00%	3.75%
G-19	896-25	P-39	37231	37231	4E4	128	93.9	98.4	26.64%	23.12%	29.84%
	896-14	P-40	41954	4A44	52	45			13.46%		
	896-14	P-41	41960	5D6	10	0.6		1	94.00%		90.00%
	896-14	P-42	41982	4DAE	40	19.9		32.2	50.25%		19.50%
	896-14	P-43	41984	4A0	31	20.6		21.3	33.55%		31.29%
	896-14	P-44	41988	4A0	37	27.6		30.2	25.41%		18.38%

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AVERAGE VALUE -----> 30.95 30.15 29.51 30.75 -5.29% -25.71% -19.65%

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SAMPLE CODES FOR VARIANCE PLOTS

NAL:NAL		NAL:NAL		NAL:BONDAR	
INITIAL:PULP		INITIAL:PEA		INITIAL:BONDAR	
SAMPLE CODE	SAMPLE NUMBER	SAMPLE CODE	SAMPLE NUMBER	SAMPLE #	SAMPLE NUMBER
1	14758	1	14823	1	14758
2	14775	2	14849	2	14775
3	14777	3	14863	3	14777
4	14816	4	14870	4	14816
5	14819	5	14882	5	14819
6	14823	6	14896	6	14849
7	14849	7	14904	7	14863
8	14863	8	14907	8	14870
9	14870	9	14924	9	14882
10	14882	10	14925	10	14904
11	14896	11	37025	11	14907
12	14904	12	37050	12	14924
13	14907	13	37136	13	14925
14	14924	14	37139	14	14941
15	14925	15	37177	15	14952
16	14941	16	37191	16	14970
17	14952	17	37200	17	14977
18	14970	18	37231	18	14999
19	14977			19	37002
20	14999			20	37006
21	37002			21	37010
22	37006			22	37025
23	37010			23	37050
24	37025			24	37136
25	37050			25	37139
26	37136			26	37168
27	37139			27	37177
28	37168			28	37191
29	37177			29	37200
30	37191			30	37231
31	37200			31	41960
32	37231			32	41982
33	41954			33	41984
34	41960			34	41988
35	41982				
36	41984				
37	41988				

SAMPLE NUMBER	INITIAL	(PULP)
	Ag	Ag
	N.A.L.	N.A.L.
14758	36	38.7
14775	26	12.3
14777	18	6.4
14816	11	11.2
14819	19	20
14823	28	29.6
14849	11	32.4
14863	22	41.5
14870	21	25.6
14882	55	63.6
14896	22	17.5
14904	24	27.3
14907	19	27.5
14924	24	29.8
14925	7	9.6
14941	49	43.4
14952	30	20.7
14970	60	72.4
14977	18	17.8
14999	23	24.4
37002	26	24
37006	*195	*316
37010	21	22.6
37025	8	8.9
37050	10	13.3
37136	8	11.5
37139	31	26.6
37168	4	3.6
37177	18	21.5
37191	23	21.4
37200	16	15.1
37231	128	93.9
41954	52	45
41960	10	0.6
41982	40	19.9
41984	31	20.6
41988	37	27.6

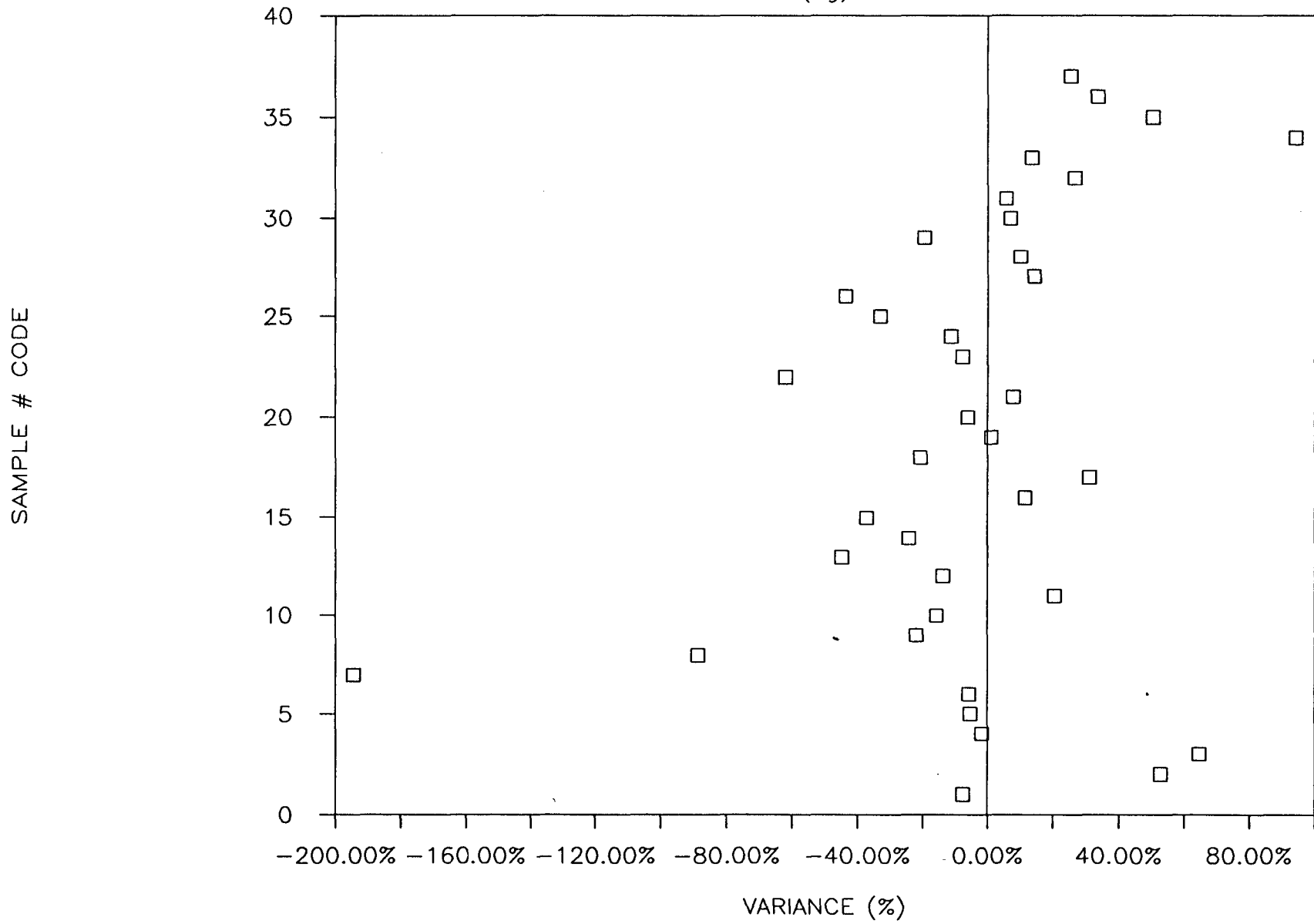
DATA FOR XY PLOTS

SAMPLE NUMBER	INITIAL	(PEA)	SAMPLE NUMBER	INITIAL	(PULP)
	Ag	Ag		Ag	Ag
	N.A.L.	N.A.L.		N.A.L.	B.C.
14823	28	32.2	14758	36	35.3
14849	11	29.3	14775	26	15.1
14863	22	27.8	14777	18	8.9
14870	21	31.2	14790	14	30.9
14882	55	77.1	14816	11	11.7
14896	22	19.9	14819	19	24
14904	24	29.3	14849	11	30.5
14907	19	26.3	14863	22	48
14924	24	34.4	14870	21	29
14925	7	9.7	14882	55	66.9
37025	8	7.8	14904	24	28.1
37050	10	14.4	14907	19	34.3
37136	8	11.3	14924	24	38.4
37139	31	28.1	14925	7	12.3
37177	18	19	14941	49	51.4
37191	23	21.3	14952	30	33.9
37200	16	13.6	14970	60	72.3
37231	128	98.4	14977	18	21.9
			14999	23	32.6
			37002	26	29.5
			37006	195	222.2
			37010	21	24.3
			37025	8	12.3
			37050	10	16.5
			37136	8	11.3
			37139	31	28.1
			37168	4	4.1
			37177	18	26.1
			37191	23	20.9
			37200	16	15.4
			37231	128	89.8
			41960	10	1
			41982	40	32.2
			41984	31	21.3
			41988	37	30.2

* VALUES BEYOND GRAPH RANGE

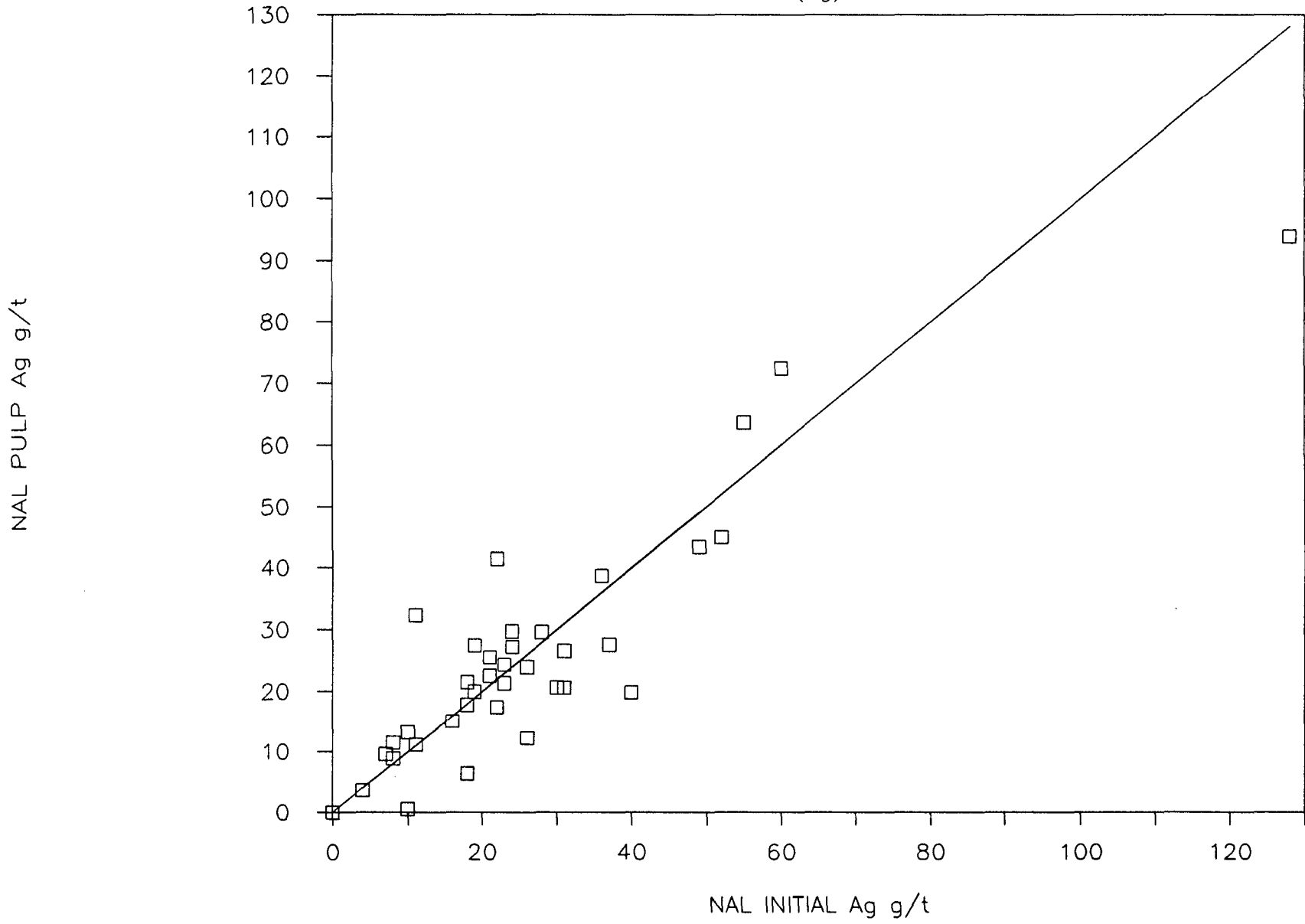
NAL INITIAL Vs. NAL PULP VARIANCE

(Ag)



NAL INITIAL Vs. NAL PULP

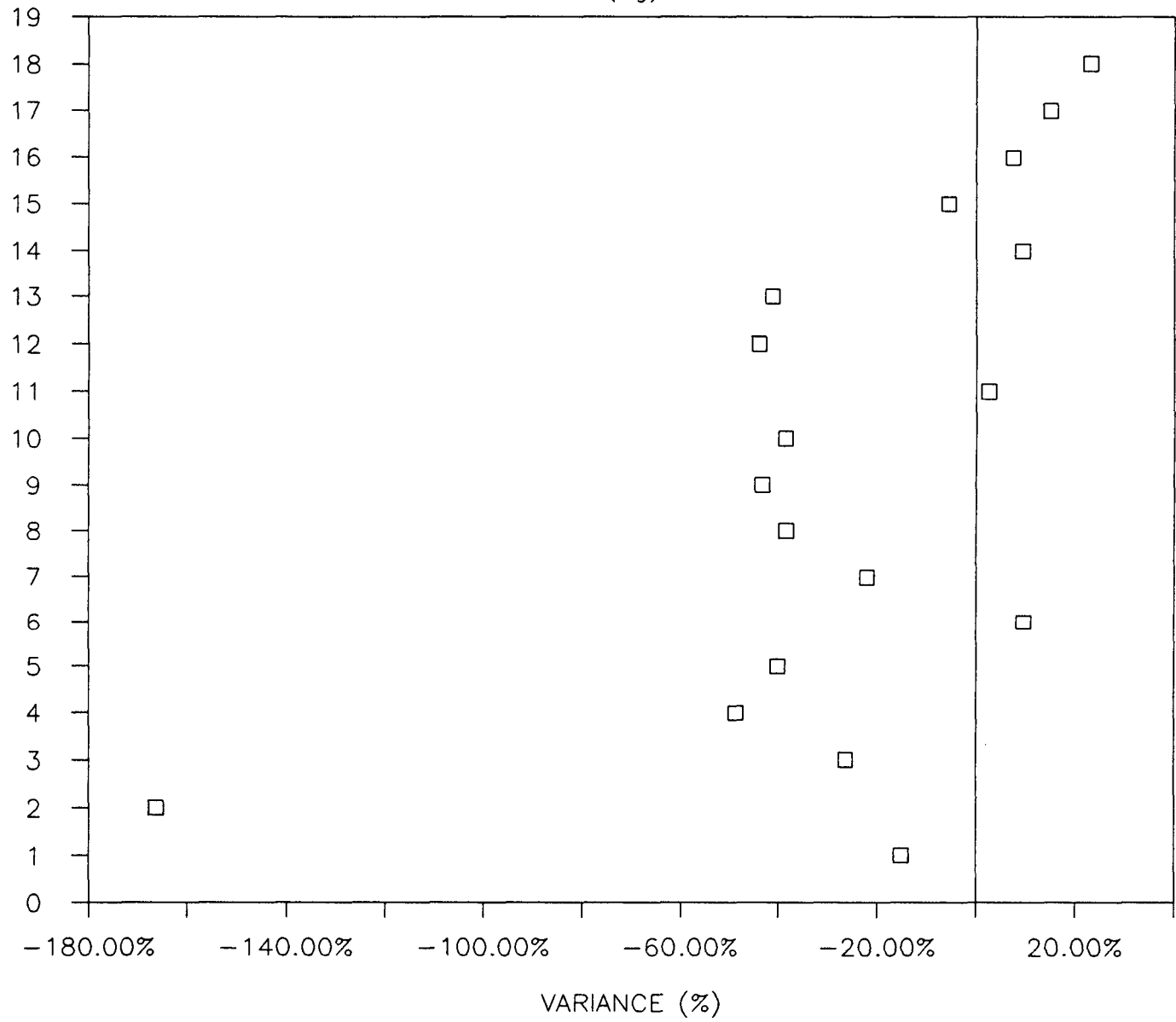
(Ag)



NAL INITIAL Vs. NAL PEA VARIANCE

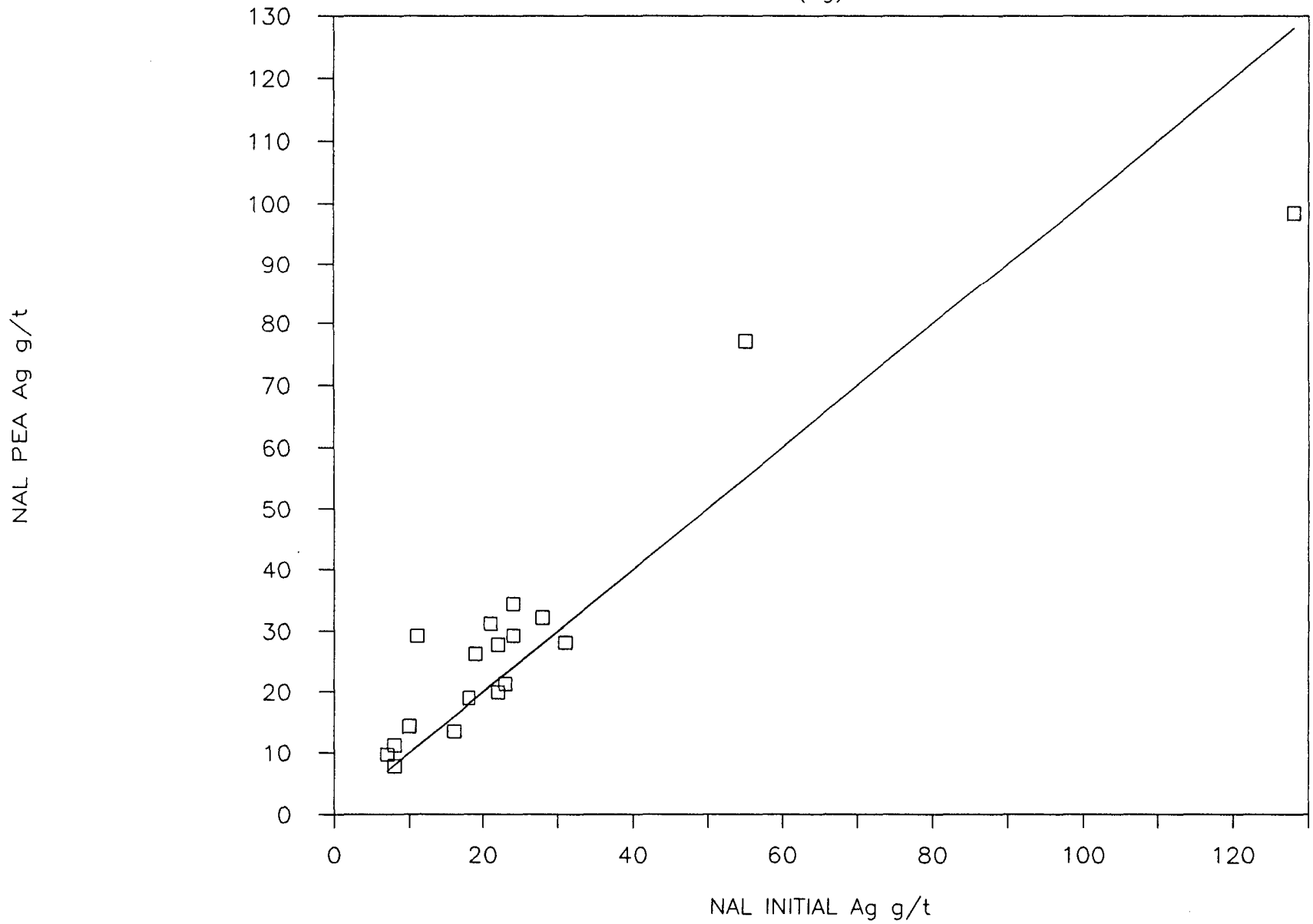
(Ag)

SAMPLE # CODE



NAL INITIAL Vs. NAL PEA

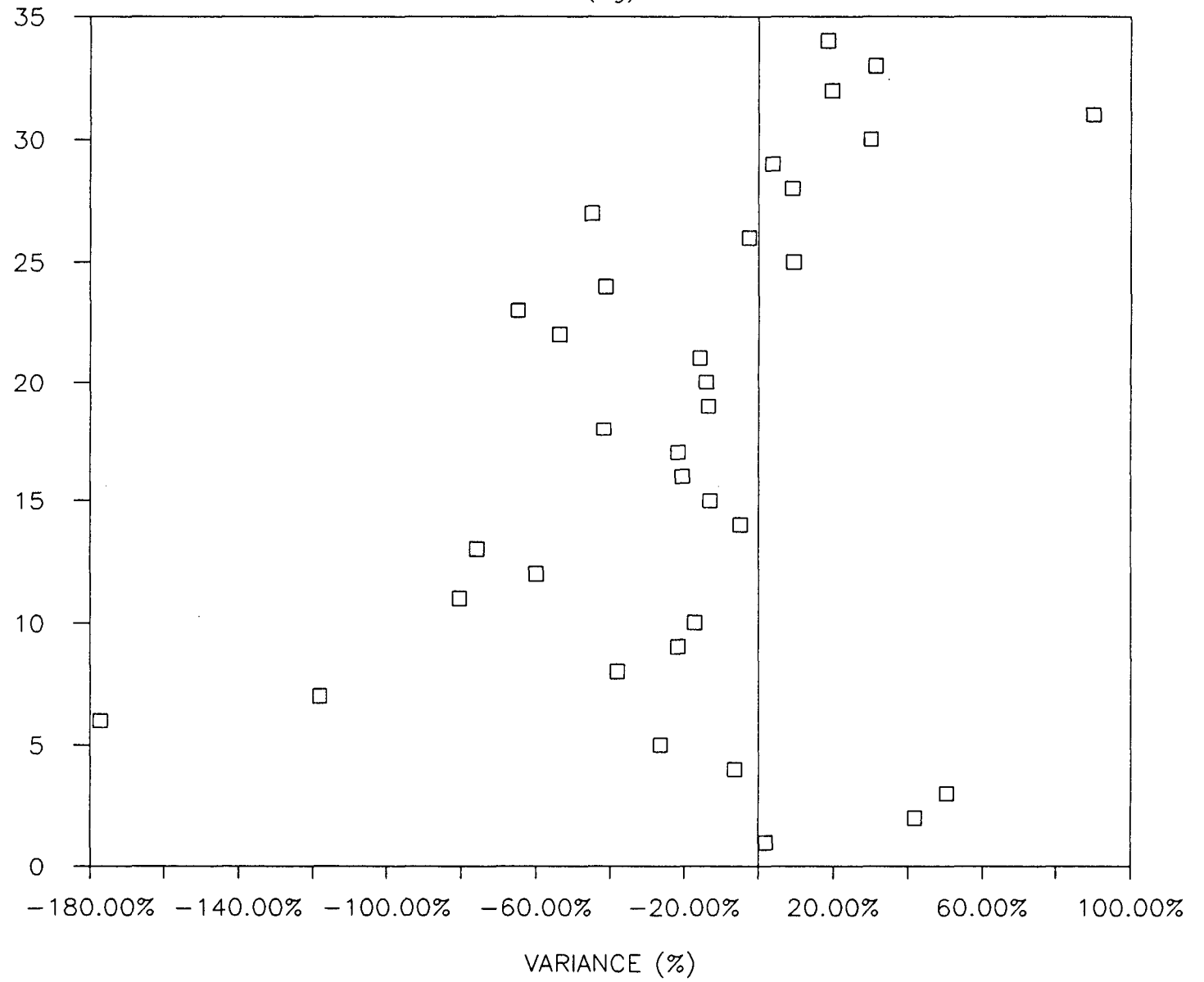
(Ag)



NAL INITIAL Vs. BONDAR PULP VARIANCE

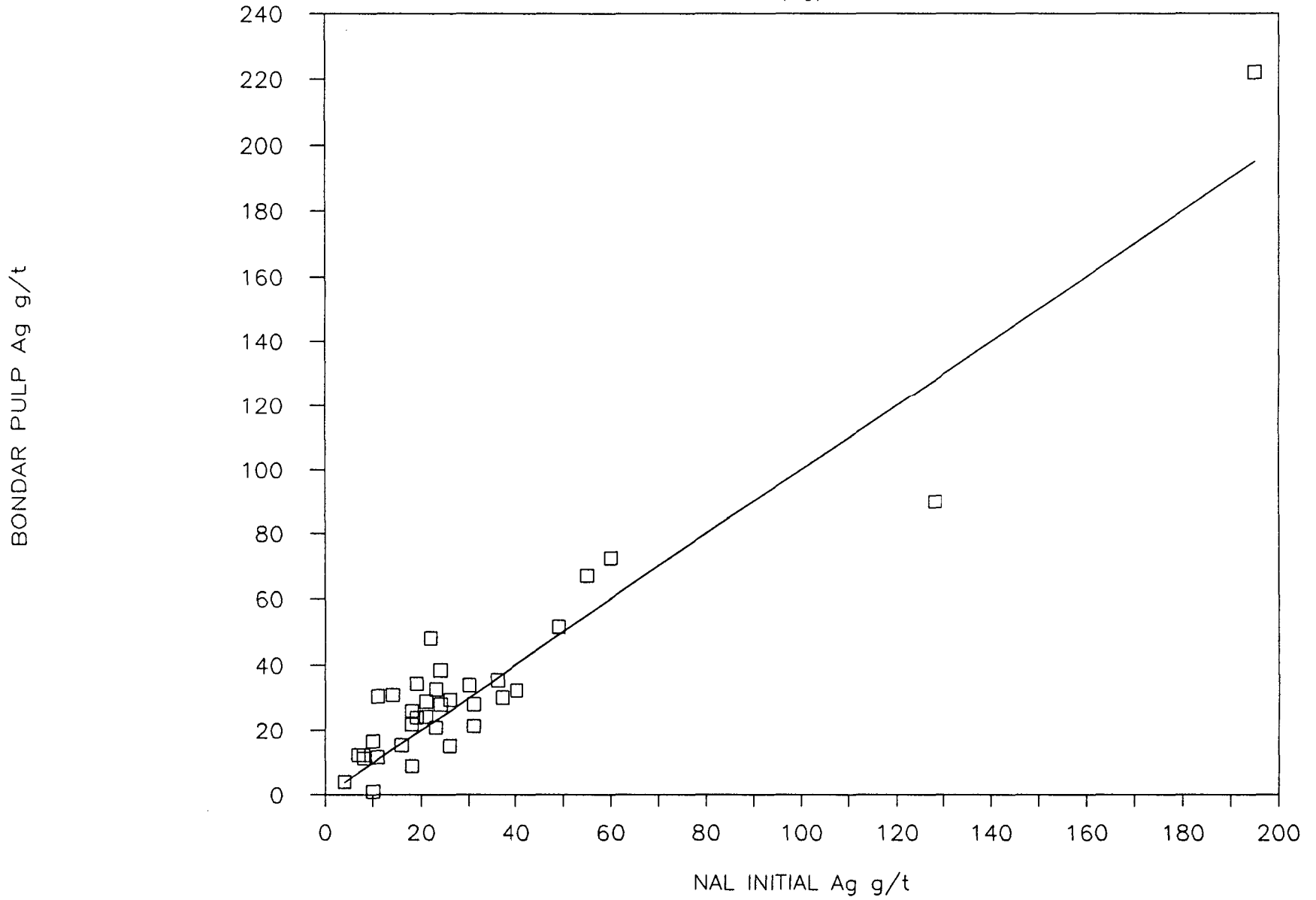
(Ag)

SAMPLE # CODE



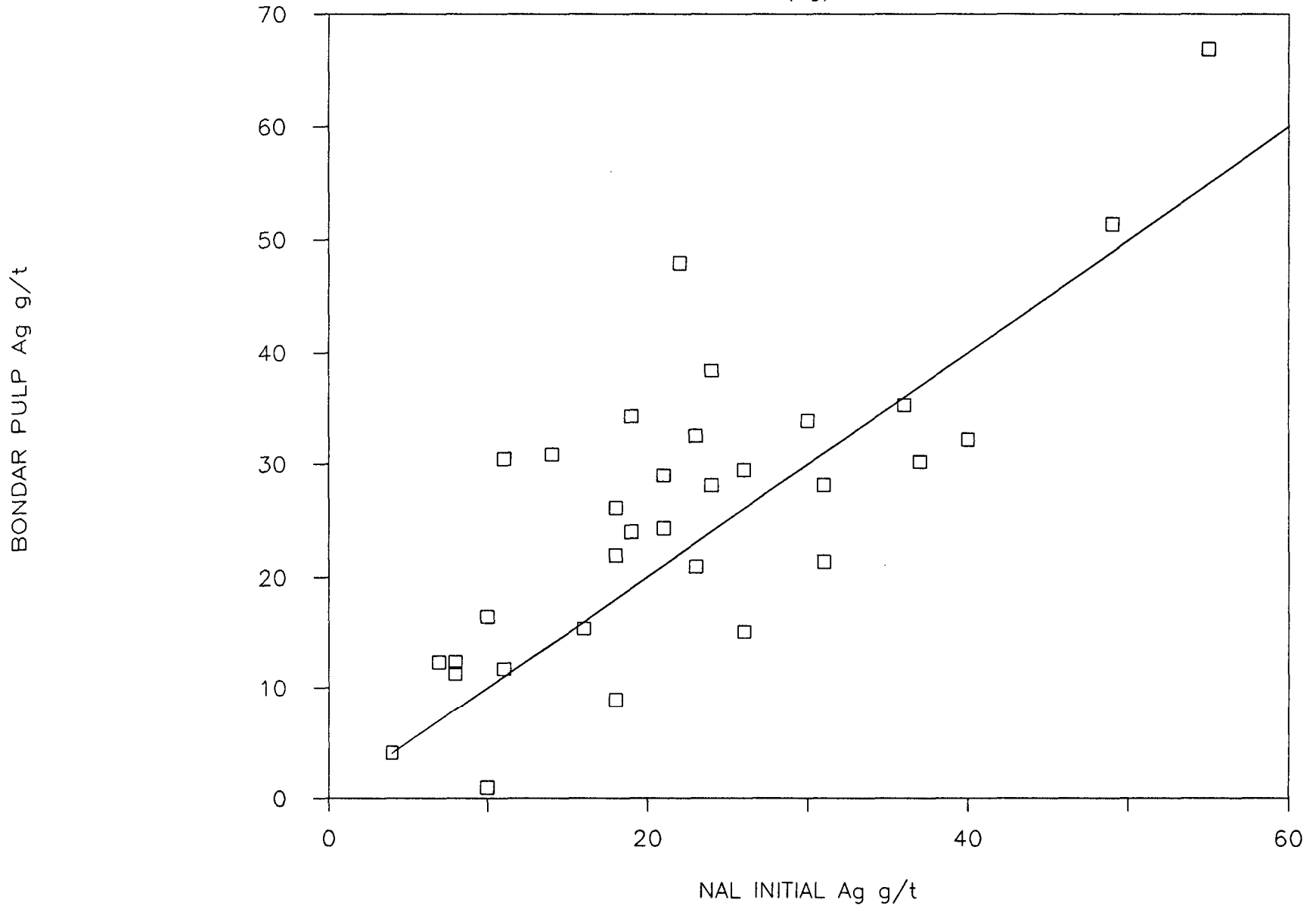
NAL INITIAL Vs. BONDAR PULP

(Ag)



NAL INITIAL Vs. BONDAR PULP

(Ag)



COL.3 (PEA)	COL.2 (PULP)	COL.4 (PULP)	COL.1	COL.1 INITIAL	COL.2 (PULP)	COL.3 (PEA)	COL.4 (PULP)	[(1-2)/1] N.A.L	[(1-3)/1] N.A.L	[(1-4)/1] NAL:BC		
CHECK	HOLE	CHECK	CHECK #	SAMPLE	ROCK	Au	Au	Au	Au	Au		
N.A.L.	NUMBER	N.A.L.	B.C.	NUMBER	CODE	N.A.L.	N.A.L.	N.A.L.	B.C.	VARIANCE		
	896-10	P-01		14758	4A4	0.28	0.39		0.14	-39.29%	50.00%	
	896-10	P-02		14775	5DB	0.07	0.14		0.07	-100.00%	0.00%	
	896-10	P-03		14777	5D	0.13	0.16		0.07	-23.08%	46.15%	
	896-10	P-04		14790	4C5	0.25	0.34		0.21			
	896-10	P-05		14791	4A0	0.28	0.39					
	896-11	P-06		14816	5B269	0.19	0.38		0.14	-100.00%	26.32%	
	896-11	P-07		14819	4A0	0.43	0.8		0.41	-86.05%	4.65%	
G-1	896-11	P-08	14823	14823	4CA	0.41	0.56	0.52		-36.59%	-26.83%	
G-2	896-13	P-09	14849	14849	4A0	0.45	0.57	0.57	0.45	-26.67%	-26.67%	0.00%
G-3	896-13	P-10	14863	14863	4A4	0.54	0.71	0.83	0.51	-31.48%	-53.70%	5.56%
G-4	896-13	P-11	14870	14870	4C5	0.17	0.3	0.31	0.14	-76.47%	-82.35%	17.65%
G-5	896-17	P-12	14882	14882	4A44	0.69	0.81	0.86	1.1	-17.39%	-24.64%	-59.42%
G-6	896-17	P-13	14896	14896	4C5	0.39	0.57	0.5		-46.15%	-28.21%	
G-7	896-17	P-14	14904	14904	4A0	0.46	0.7	0.63	0.48	-52.17%	-36.96%	-4.35%
G-8	896-17	P-15	14907	14907	4A0	0.31	0.47	0.51	0.38	-51.61%	-64.52%	-22.58%
G-9	896-16	P-16	14924	14924	4AD	0.39	0.6	0.5	0.41	-53.85%	-28.21%	-5.13%
G-10	896-16	P-17	14925	14925	5C/4D	0.11	0.27	0.17	0.1	-145.45%	-54.55%	9.09%
	896-16	P-18		14941	4EA4	1.19	0.64		1.1	46.22%	7.56%	
	896-18	P-19		14952	4D0	0.06	0.25		0.07	-316.67%	-16.67%	
	896-18	P-20		14970	4A34	1.07	1.33		1.17	-24.30%	-9.35%	
	896-18	P-21		14977	4C53	0.51	0.61		0.45	-19.61%	11.76%	
	896-21	P-22		14999	4E1\$	0.73	0.78		0.62	-6.85%	15.07%	
		P-23		15440			0.14		0.07			
		P-24		15447			0.37		0.17			
		P-25		15454			0.19		0.07			
		P-26		15462			0.17		0.07			
		P-27		15714			0.11		0.07			
	896-20	P-28		37002	4A0	0.38	0.63		0.41	-65.79%	-7.89%	
	896-20	P-29		37006	4E4	2.3	2.81		2.85	-22.17%	-23.91%	
	896-20	P-30		37010	4A0	0.45	0.74		0.55	-64.44%	-22.22%	
G-12	896-19	P-31	37025	37025	4A0\$	0.48	0.55	0.56	0.38	-14.58%	-16.67%	20.83%
G-13	896-19	P-32	37050	37050	4L24	0.36	0.35	0.41	0.21	2.78%	-13.89%	41.67%
G-14	896-23	P-33	37136	37136	4H135	0.25	0.23	0.3	0.14	8.00%	-20.00%	44.00%
G-15	896-23	P-34	37139	37139	4A4	0.31	0.38	0.37	0.24	-22.58%	-19.35%	22.58%
	896-15	P-35		37168	4A0	0.25	0.48		0.31	-92.00%	-24.00%	
G-16	896-15	P-36	37177	37177	4D0	0.1	0.33	0.22	0.21	-230.00%	-120.00%	-110.00%
G-17	896-15	P-37	37191	37191	4C5	0.15	0.38	0.35	0.24	-153.33%	-133.33%	-60.00%
G-18	896-15	P-38	37200	37200	4AC	0.53	0.39	0.46	0.31	26.42%	13.21%	41.51%
G-19	896-25	P-39	37231	37231	4E4	1.99	1.81	1.74	1.85	9.05%	12.56%	7.04%
	896-14	P-40		41954	4A44	0.28	0.46			-64.29%		
	896-14	P-41		41960	5D6	0.03	0.11		0.07	-266.67%	-133.33%	
	896-14	P-42		41982	4DAE	0.87	1.09		0.99	-25.29%	-13.79%	
	896-14	P-43		41984	4A0	0.42	0.51		0.41	-21.43%	2.38%	
	896-14	P-44		41988	4A0	0.33	0.37		0.31	-12.12%	6.06%	
AVERAGE VALUE ----->						0.48	0.55	0.55	0.45	-59.89%	-40.23%	-3.90%

***** SAMPLE CODES FOR VARIANCE PLOTS *****

NAL:NAL INITIAL:PULP		NAL:NAL INITIAL:PEA		NAL:BONDAR INITIAL:PULP	
SAMPLE CODE	SAMPLE NUMBER	SAMPLE CODE	SAMPLE NUMBER	SAMPLE # CODE	SAMPLE NUMBER
1	14758	1	14823	1	14758
2	14775	2	14849	2	14775
3	14777	3	14863	3	14777
4	14816	4	14870	4	14816
5	14819	5	14882	5	14819
6	14823	6	14896	6	14849
7	14849	7	14904	7	14863
8	14863	8	14907	8	14870
9	14870	9	14924	9	14882
10	14882	10	14925	10	14904
11	14896	11	37025	11	14907
12	14904	12	37050	12	14924
13	14907	13	37136	13	14925
14	14924	14	37139	14	14941
15	14925	15	37177	15	14952
16	14941	16	37191	16	14970
17	14952	17	37200	17	14977
18	14970	18	37231	18	14999
19	14977			19	37002
20	14999			20	37006
21	37002			21	37010
22	37006			22	37025
23	37010			23	37050
24	37025			24	37136
25	37050			25	37139
26	37136			26	37168
27	37139			27	37177
28	37168			28	37191
29	37177			29	37200
30	37191			30	37231
31	37200			31	41960
32	37231			32	41982
33	41954			33	41984
34	41960			34	41988
35	41982			35	41988
36	41984				
37	41988				

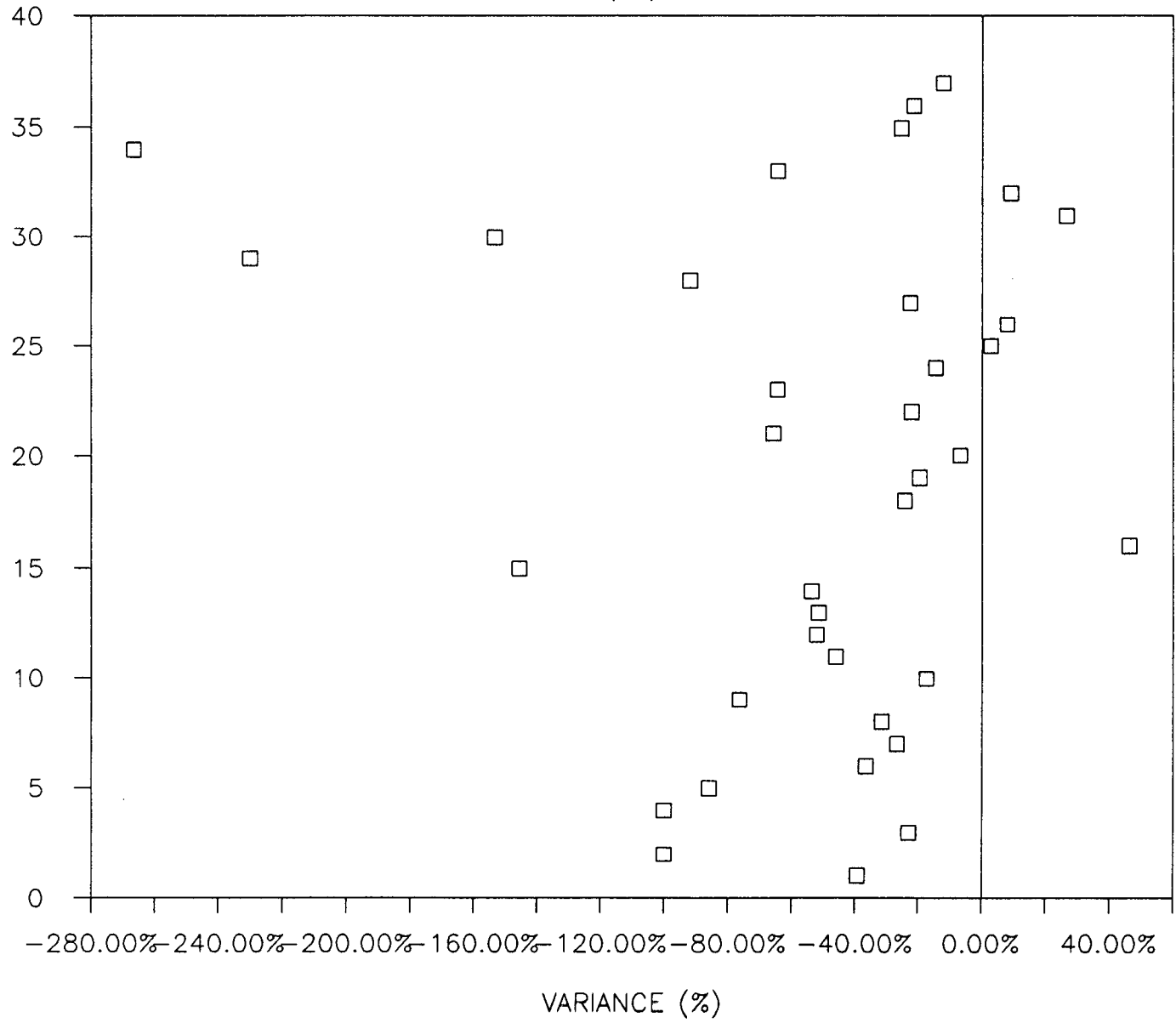
***** DATA FOR XY PLOTS *****

INITIAL (PULP)			INITIAL (PEA)			INITIAL (PULP)		
SAMPLE NUMBER	Au N.A.L.	Au N.A.L.	SAMPLE NUMBER	Au N.A.L.	Au N.A.L.	SAMPLE NUMBER	Au N.A.L.	Au B.C.
14758	0.28	0.39	14823	0.41	0.52	14758	0.28	0.14
14775	0.07	0.14	14849	0.45	0.57	14775	0.07	0.07
14777	0.13	0.16	14863	0.54	0.83	14777	0.13	0.07
14816	0.19	0.38	14870	0.17	0.31	14816	0.19	0.14
14819	0.43	0.8	14882	0.69	0.86	14819	0.43	0.41
14823	0.41	0.56	14896	0.39	0.5	14849	0.45	0.45
14849	0.45	0.57	14904	0.46	0.63	14863	0.54	0.51
14863	0.54	0.71	14907	0.31	0.51	14870	0.17	0.14
14870	0.17	0.3	14924	0.39	0.5	14882	0.69	1.1
14882	0.69	0.81	14925	0.11	0.17	14904	0.46	0.48
14896	0.39	0.57	37025	0.48	0.56	14907	0.31	0.38
14904	0.46	0.7	37050	0.36	0.41	14924	0.39	0.41
14907	0.31	0.47	37136	0.25	0.3	14925	0.11	0.1
14924	0.39	0.6	37139	0.31	0.37	14941	1.19	1.1
14925	0.11	0.27	37177	0.1	0.22	14952	0.06	0.07
14941	1.19	0.64	37191	0.15	0.35	14970	1.07	1.17
14952	0.06	0.25	37200	0.53	0.46	14977	0.51	0.45
14970	1.07	1.33	37231	1.99	1.74	14999	0.73	0.62
14977	0.51	0.61				37002	0.38	0.41
14999	0.73	0.78				37006	2.3	2.85
37002	0.38	0.63				37010	0.45	0.55
37006	2.3	2.81				37025	0.48	0.38
37010	0.45	0.74				37050	0.36	0.21
37025	0.48	0.55				37136	0.25	0.14
37050	0.36	0.35				37139	0.31	0.24
37136	0.25	0.23				37168	0.25	0.31
37139	0.31	0.38				37177	0.1	0.21
37168	0.25	0.48				37191	0.15	0.24
37177	0.1	0.33				37200	0.53	0.31
37191	0.15	0.38				37231	1.99	1.85
37200	0.53	0.39				41960	0.03	0.07
37231	1.99	1.81				41982	0.87	0.99
41954	0.28	0.46				41984	0.42	0.41
41960	0.03	0.11				41988	0.33	0.31
41982	0.87	1.09				41988	0.33	0.31
41984	0.42	0.51						
41988	0.33	0.37						

NAL INITIAL Vs. NAL PULP VARIANCE

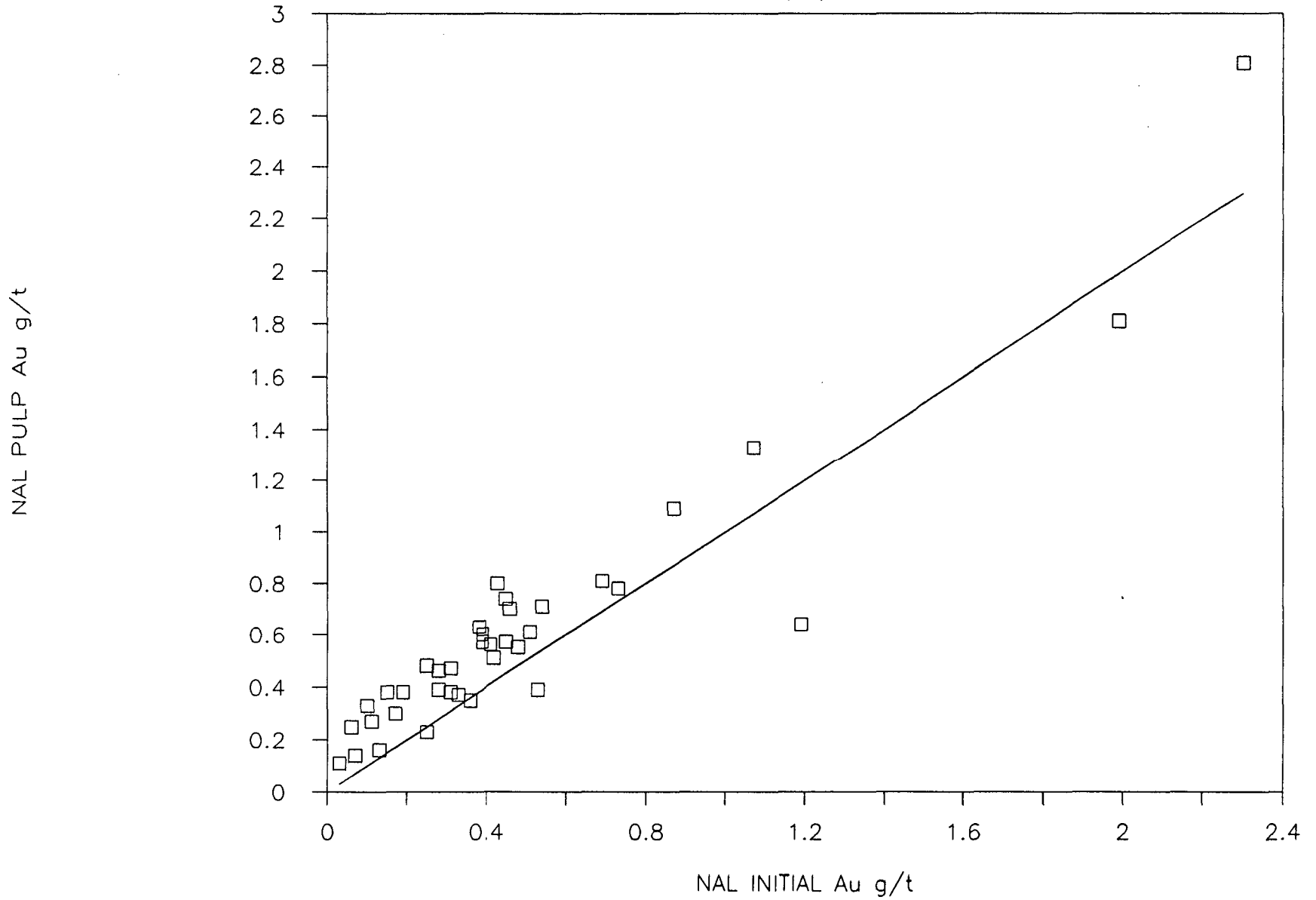
(Au)

SAMPLE # CODE



NAL INITIAL Vs. NAL PULP

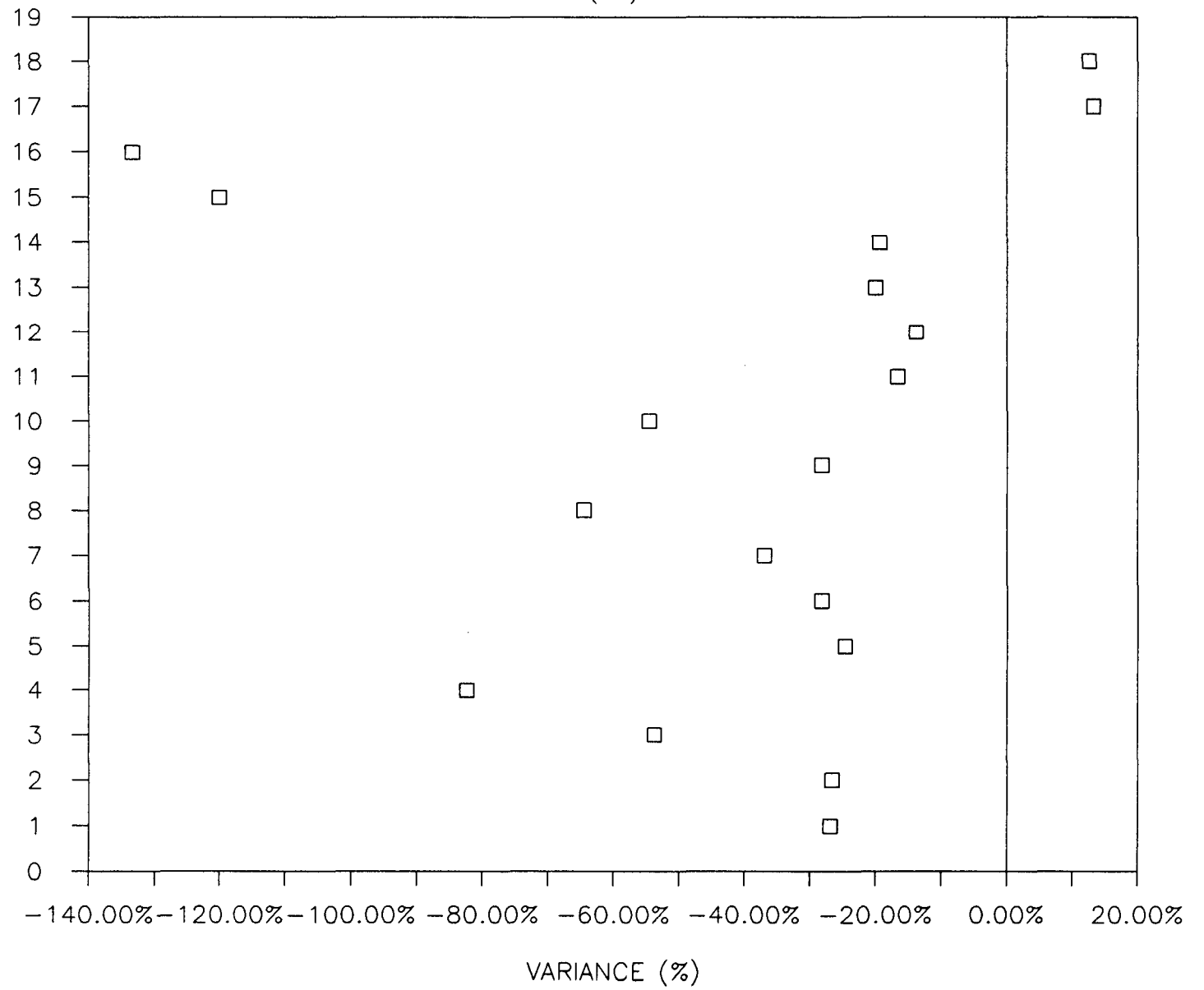
(Au)



NAL INITIAL Vs. NAL PEA VARIANCE

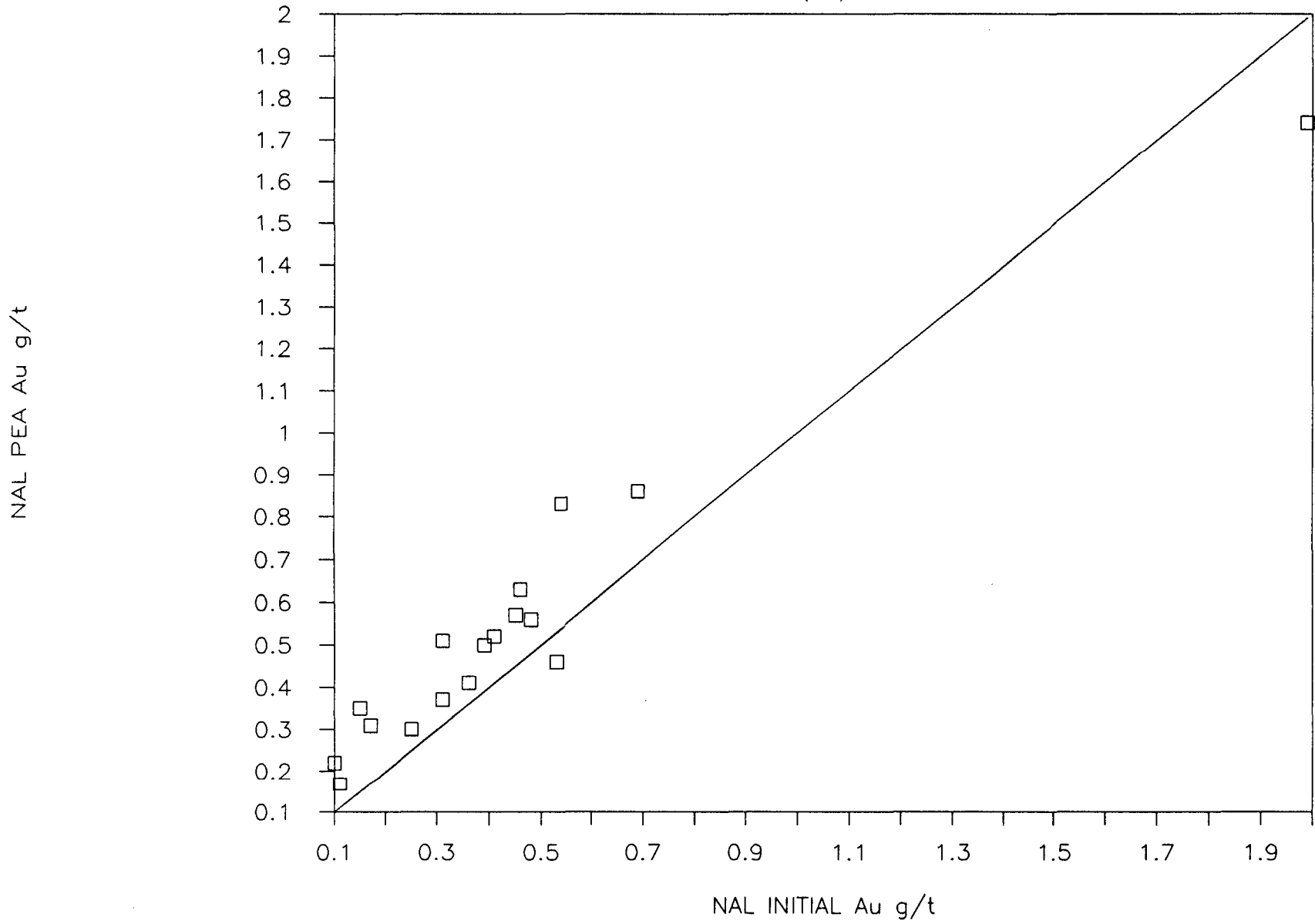
(Au)

SAMPLE # CODE



NAL INITIAL Vs. NAL PEA

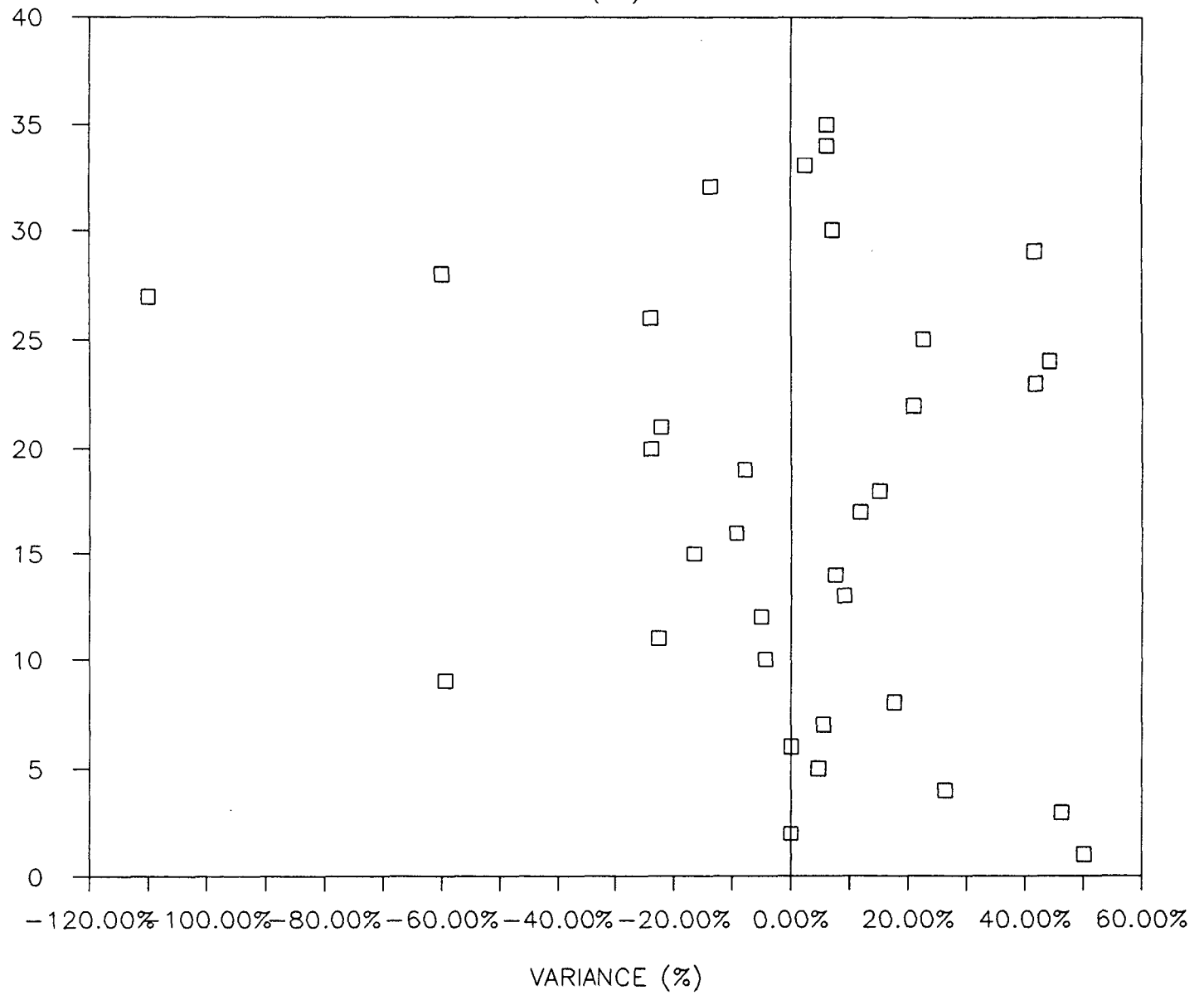
(Au)



NAL INITIAL Vs. BONDAR PULP VARIANCE

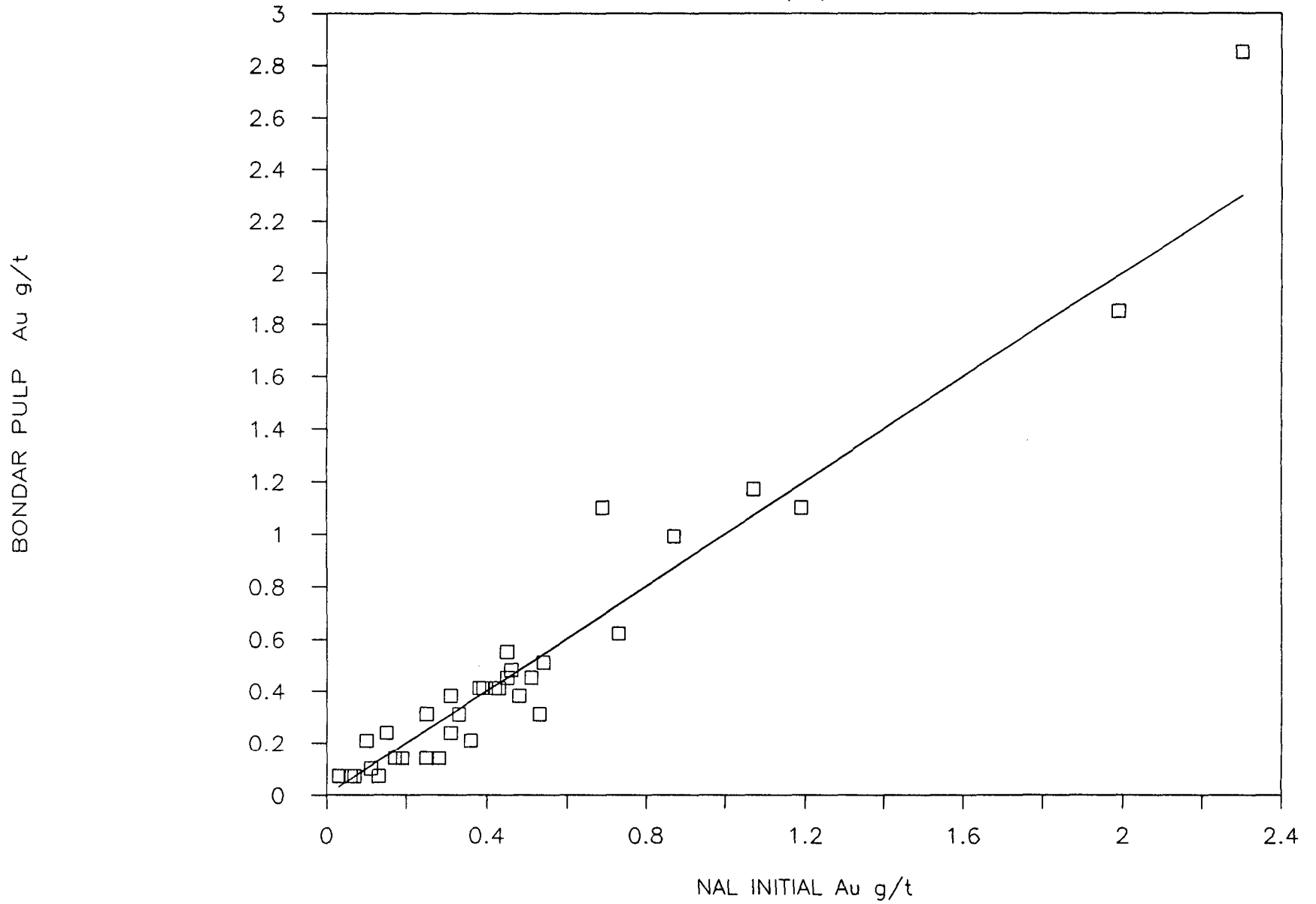
(Au)

SAMPLE # CODE



NAL INITIAL Vs. BONDAR PULP

(Au)



COL.3 (PEA) CHECK N.A.L.	COL.2 (PULP) HOLE NUMBER	COL.4 (PULP) CHECK # B.C.	COL.1 SAMPLE NUMBER	ROCK CODE	COL. 1 INITIAL %Cu N.A.L.	COL. 2 (PULP) %Cu N.A.L.	COL. 3 (PEA) %Cu N.A.L.	COL. 4 (PULP) %Cu B.C.	[(1-2)/1] N.A.L VARIANCE	[(1-3)/1] N.A.L. VARIANCE	[(1-4)/1] NAL:BC %Cu VARIANCE
	896-10	P-01	14758	4A4	0.05	0.04		0.04	20.00%		20.00%
	896-10	P-02	14775	5D8	0.01	0.007		0.01	30.00%		0.00%
	896-10	P-03	14777	5D	0.01	0.007		0.01	30.00%		0.00%
	896-10	P-04	14790	4C5	0.01	0.017		0.02			-100.00%
	896-10	P-05	14791	4A0	0.01	0.018					
	896-11	P-06	14816	5B269	0.05	0.047		0.05	6.00%		0.00%
	896-11	P-07	14819	4A0	0.08	0.073		0.06	8.75%		25.00%
G-1	896-11	P-08	14823	14823	4CA	0.07	0.06	0.037	14.29%	47.14%	
G-2	896-13	P-09	14849	14849	4A0	0.02	0.028	0.063	-40.00%	-215.00%	-50.00%
G-3	896-13	P-10	14863	14863	4A4	0.08	0.069	0.071	13.75%	11.25%	12.50%
G-4	896-13	P-11	14870	14870	4C5	0.01	0.013	0.025	-30.00%	-150.00%	0.00%
G-5	896-17	P-12	14882	14882	4A44	0.05	0.033	0.047	34.00%	6.00%	40.00%
G-6	896-17	P-13	14896	14896	4C5	0.09	0.08	0.068	11.11%	24.44%	
G-7	896-17	P-14	14904	14904	4A0	0.03	0.025	0.029	16.67%	3.33%	33.33%
G-8	896-17	P-15	14907	14907	4A0	0.05	0.042	0.036	16.00%	28.00%	80.00%
G-9	896-16	P-16	14924	14924	4AD	0.03	0.025	0.024	16.67%	20.00%	0.00%
G-10	896-16	P-17	14925	14925	5C/4D	0.01	0.007	0.015	30.00%	-50.00%	0.00%
	896-16	P-18	14941	4EA4	0.18	0.177		0.16	1.67%		11.11%
	896-18	P-19	14952	4D0	0.01	0.011		0.01	-10.00%		0.00%
	896-18	P-20	14970	4A34	0.13	0.146		0.13	-12.31%		0.00%
	896-18	P-21	14977	4C53	0.05	0.054		0.04	-8.00%		20.00%
	896-21	P-22	14999	4E1*	0.31	0.263		0.25	15.16%		19.35%
		P-23	15440			0.002		0.01			
		P-24	15447			0.032		0.04			
		P-25	15454			0.005		0.01			
		P-26	15462			0.01		0.01			
		P-27	15714			0.002		0.01			
	896-20	P-28	37002	4A0	0.08	0.075		0.08	6.25%		0.00%
	896-20	P-29	37006	4E4	0.28	0.254		0.25	9.29%		10.71%
	896-20	P-30	37010	4A0	0.01	0.018		0.02	-80.00%		-100.00%
G-12	896-19	P-31	37025	37025	4A0*	0.19	0.187	0.172	1.58%	9.47%	5.26%
G-13	896-19	P-32	37050	37050	4L24	0.13	0.101	0.128	22.31%	1.54%	15.38%
G-14	896-23	P-33	37136	37136	4H135	0.05	0.035	0.04	30.00%	20.00%	40.00%
G-15	896-23	P-34	37139	37139	4A4	0.02	0.014	0.014	30.00%	30.00%	0.00%
	896-15	P-35	37168	4A0	0.04	0.044		0.04	-10.00%		0.00%
G-16	896-15	P-36	37177	37177	4D0	0.03	0.02	0.02	33.33%	33.33%	33.33%
G-17	896-15	P-37	37191	37191	4C5	0.04	0.044	0.04	-10.00%	0.00%	0.00%
G-18	896-15	P-38	37200	37200	4AC	0.1	0.108	0.096	-8.00%	4.00%	0.00%
G-19	896-25	P-39	37231	37231	4E4	0.16	0.16	0.155	0.00%	3.13%	6.25%
	896-14	P-40	41954	4A44	0	0.009					
	896-14	P-41	41960	5D6	0	0.001		0.02			
	896-14	P-42	41982	4DAE	0.04	0.036		0.05	10.00%		-25.00%
	896-14	P-43	41984	4A0	0.06	0.055		0.05	8.33%		16.67%
	896-14	P-44	41988	4A0	0.08	0.073		0.07	8.75%		12.50%

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AVERAGE VALUE -----> 0.07 0.06 0.06 0.06 6.16% -9.63% 3.72%

=====

***** SAMPLE CODES FOR VARIANCE PLOTS *****

NAL:NAL		NAL:NAL		NAL:BONDAR	
INITIAL:PULP		INITIAL:PEA		INITIAL:PULP	
SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE #	SAMPLE
CODE	NUMBER	CODE	NUMBER	CODE	NUMBER
1	14758	1	14823	1	14758
2	14775	2	14849	2	14775
3	14777	3	14863	3	14777
4	14816	4	14870	4	14816
5	14819	5	14882	5	14819
6	14823	6	14896	6	14849
7	14849	7	14904	7	14863
8	14863	8	14907	8	14870
9	14870	9	14924	9	14882
10	14882	10	14925	10	14904
11	14896	11	37025	11	14907
12	14904	12	37050	12	14924
13	14907	13	37136	13	14925
14	14924	14	37139	14	14941
15	14925	15	37177	15	14952
16	14941	16	37191	16	14970
17	14952	17	37200	17	14977
18	14970	18	37231	18	14999
19	14977			19	37002
20	14999			20	37006
21	37002			21	37010
22	37006			22	37025
23	37010			23	37050
24	37025			24	37136
25	37050			25	37139
26	37136			26	37168
27	37139			27	37177
28	37168			28	37191
29	37177			29	37200
30	37191			30	37231
31	37200			31	41982
32	37231			32	41984
33	41982			33	41988
34	41984				
35	41988				

SAMPLE NUMBER	INITIAL	(PULP)
	%Cu N.A.L.	%Cu N.A.L.
14758	0.05	0.04
14775	0.01	0.007
14777	0.01	0.007
14816	0.05	0.047
14819	0.08	0.073
14823	0.07	0.06
14849	0.02	0.028
14863	0.08	0.069
14870	0.01	0.013
14882	0.05	0.033
14896	0.09	0.08
14904	0.03	0.025
14907	0.05	0.042
14924	0.03	0.025
14925	0.01	0.007
14941	0.18	0.177
14952	0.01	0.011
14970	0.13	0.146
14977	0.05	0.054
14999	0.31	0.263
37002	0.08	0.075
37006	0.28	0.254
37010	0.01	0.018
37025	0.19	0.187
37050	0.13	0.101
37136	0.05	0.035
37139	0.02	0.014
37168	0.04	0.044
37177	0.03	0.02
37191	0.04	0.044
37200	0.1	0.108
37231	0.16	0.16
41982	0.04	0.036
41984	0.06	0.055
41988	0.08	0.073

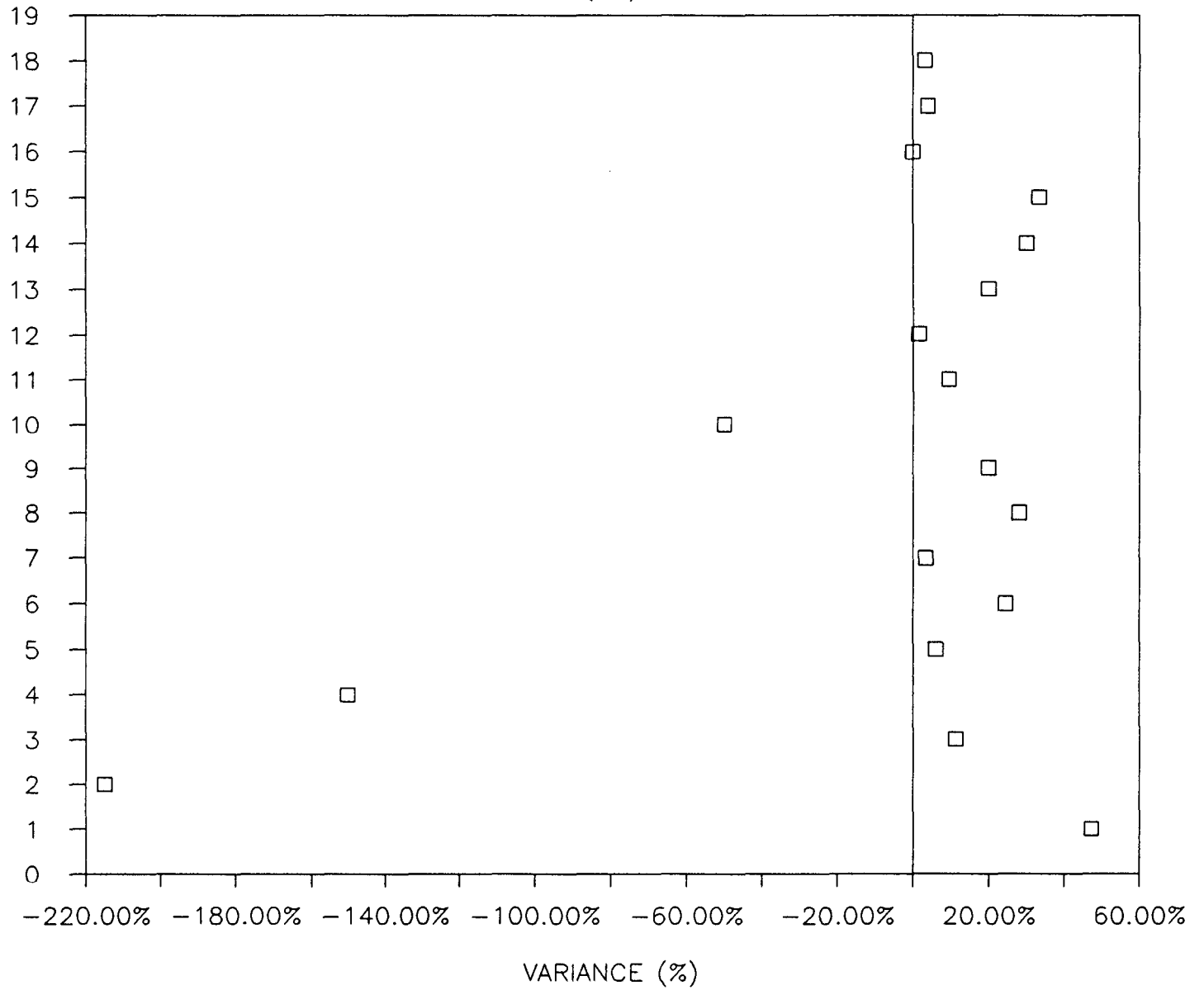
DATA FOR XY PLOTS

SAMPLE NUMBER	INITIAL	(PEA)	SAMPLE NUMBER	INITIAL	(PULP)
	%Cu N.A.L.	%Cu N.A.L.		%Cu N.A.L.	%Cu B.C.
14823	0.07	0.037	14758	0.05	0.04
14849	0.02	0.063	14775	0.01	0.01
14863	0.08	0.071	14777	0.01	0.01
14870	0.01	0.025	14816	0.05	0.05
14882	0.05	0.047	14819	0.08	0.06
14896	0.09	0.068	14849	0.02	0.03
14904	0.03	0.029	14863	0.08	0.07
14907	0.05	0.036	14870	0.01	0.01
14924	0.03	0.024	14882	0.05	0.03
14925	0.01	0.015	14904	0.03	0.02
37025	0.19	0.172	14907	0.05	0.01
37050	0.13	0.128	14924	0.03	0.03
37136	0.05	0.04	14925	0.01	0.01
37139	0.02	0.014	14941	0.18	0.16
37177	0.03	0.02	14952	0.01	0.01
37191	0.04	0.04	14970	0.13	0.13
37200	0.1	0.096	14977	0.05	0.04
37231	0.16	0.155	14999	0.31	0.25
			37002	0.08	0.08
			37006	0.28	0.25
			37010	0.01	0.02
			37025	0.19	0.18
			37050	0.13	0.11
			37136	0.05	0.03
			37139	0.02	0.02
			37168	0.04	0.04
			37177	0.03	0.02
			37191	0.04	0.04
			37200	0.1	0.1
			37231	0.16	0.15
			41982	0.04	0.05
			41984	0.06	0.05
			41988	0.08	0.07

NAL INITIAL Vs. NAL PULP VARIANCE

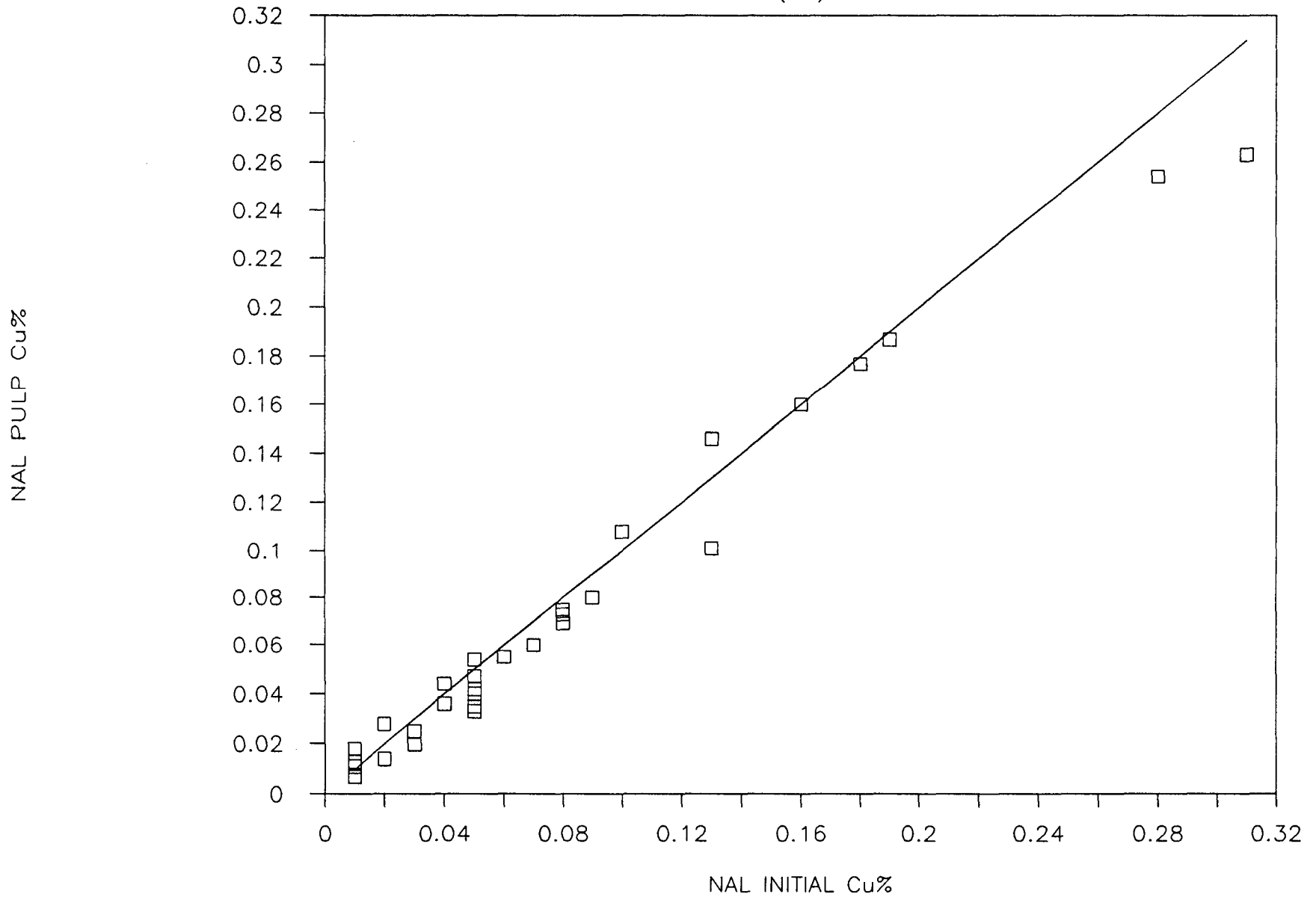
(Cu)

SAMPLE # CODE



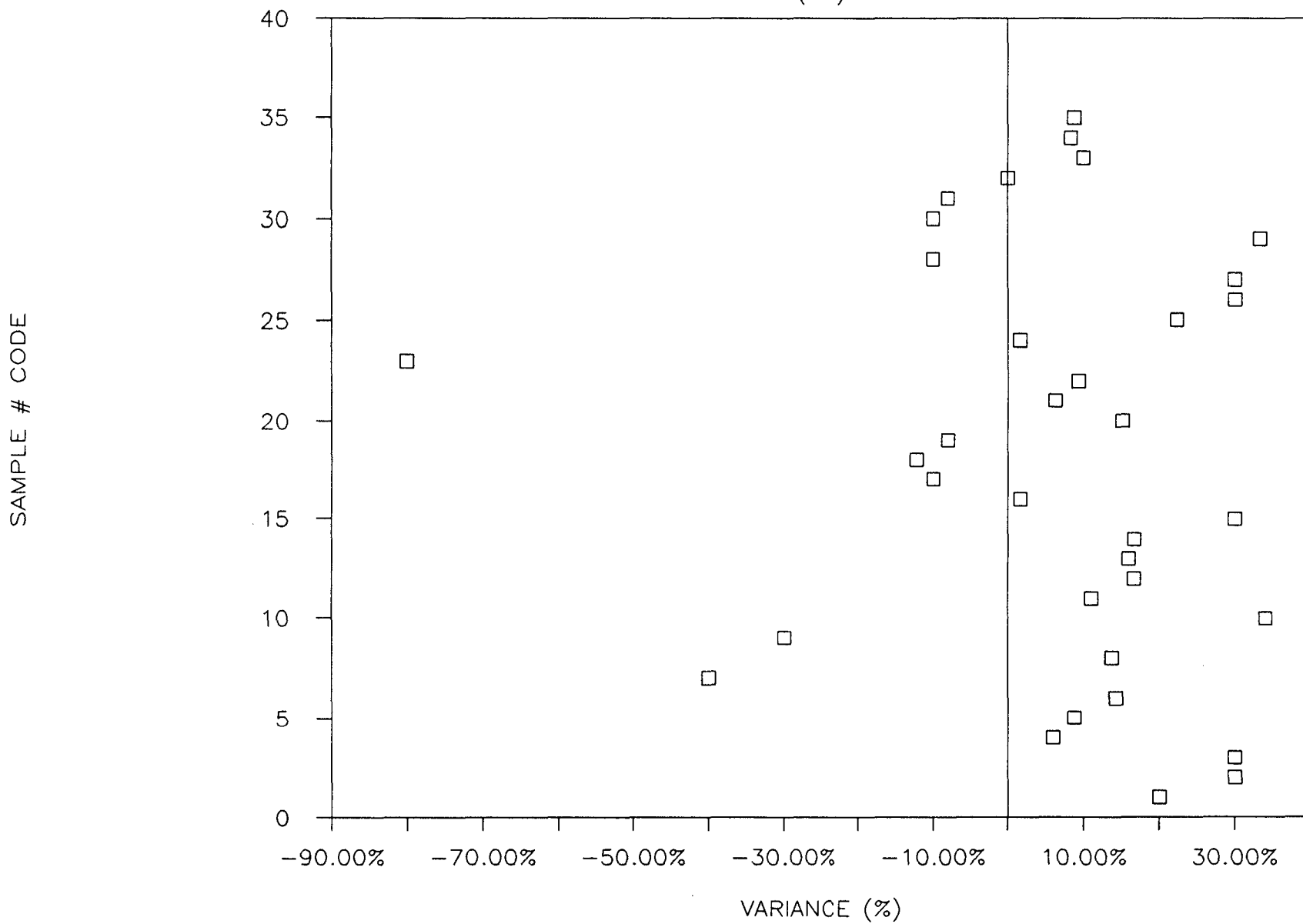
NAL INITIAL Vs. NAL PULP

(Cu)



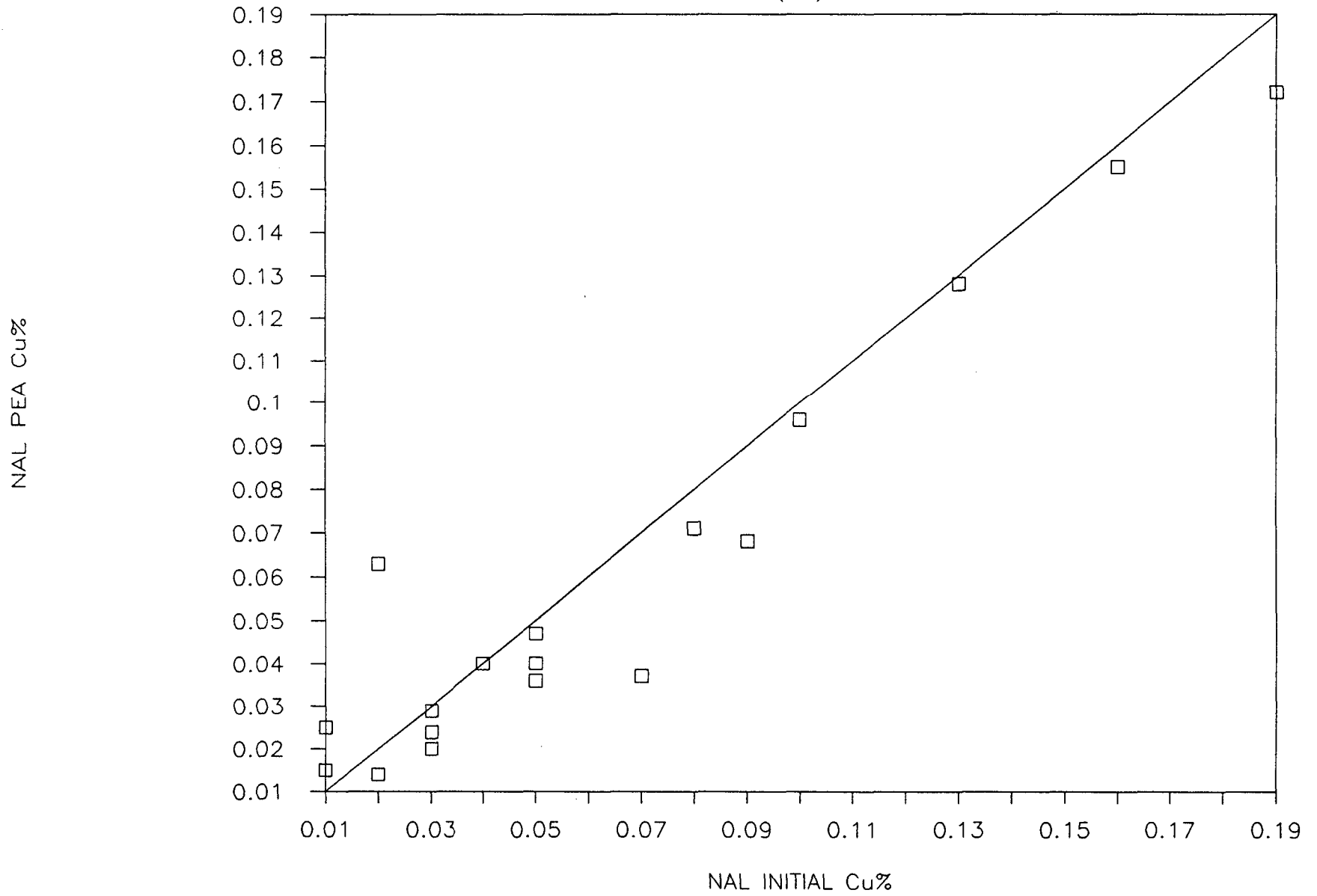
NAL INITIAL Vs. NAL PEA VARIANCE

(Cu)



NAL INITIAL Vs. NAL PEA

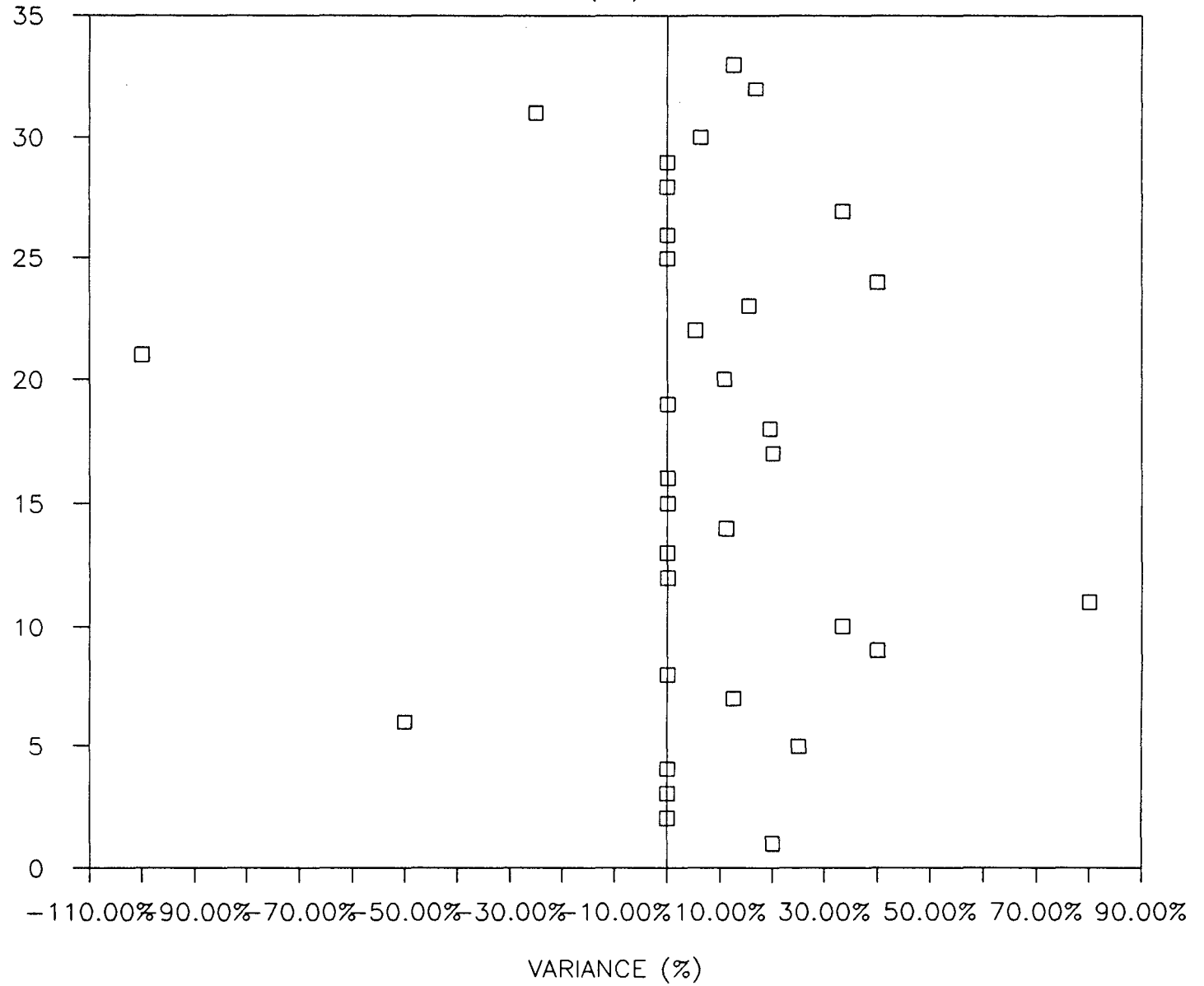
(Cu)



NAL INITIAL Vs. BONDAR PULP VARIANCE

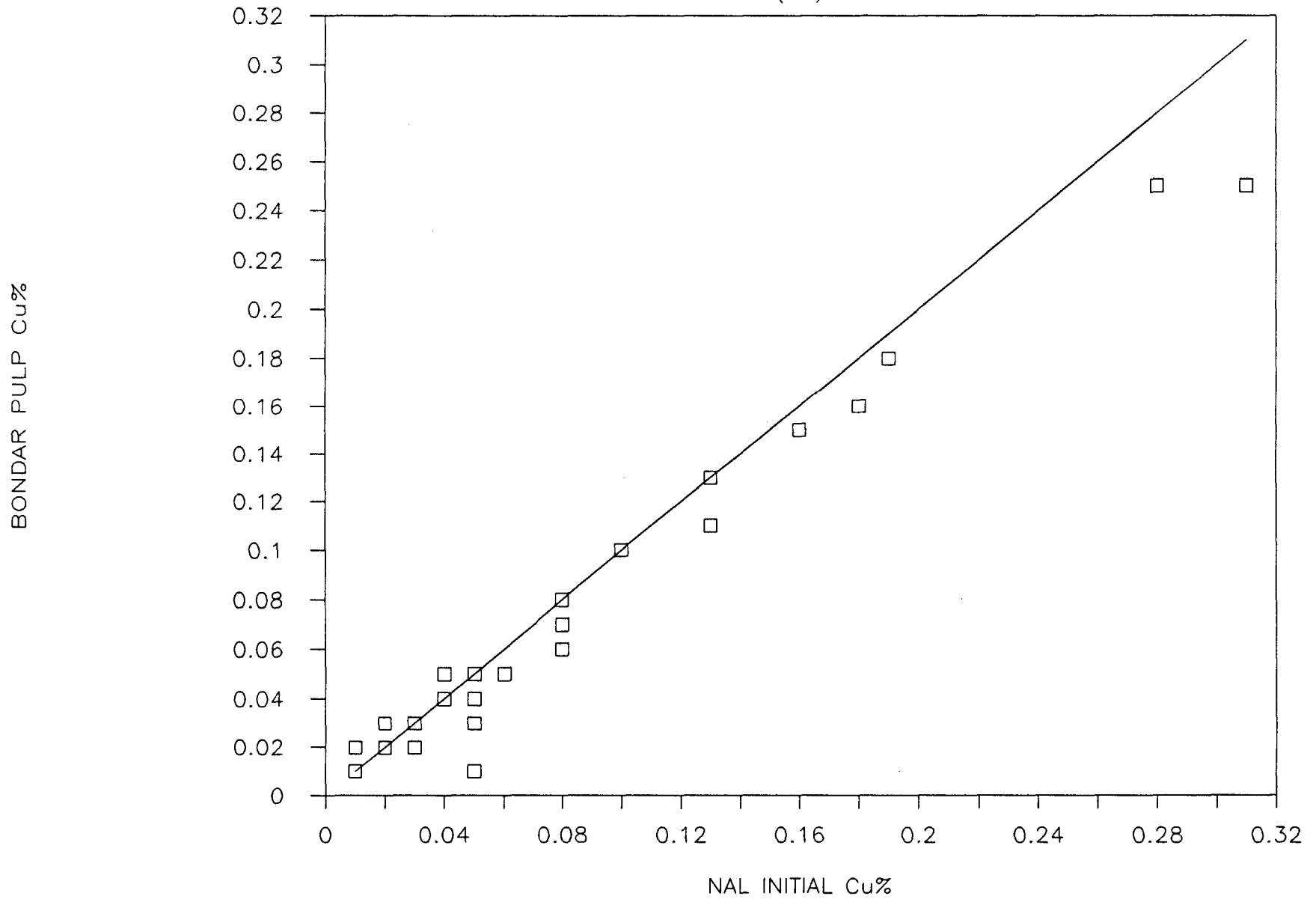
(Cu)

SAMPLE # CODE



NAL INITIAL Vs. BONDAR PULP

(Cu)



COL.3 (PEA) CHECK N.A.L.	COL.2 (PULP) HOLE N.A.L.	COL.4 (PULP) CHECK N.A.L.	COL.1 CHECK # SAMPLE NUMBER	ROCK CODE	COL. 1 INITIAL %Fe N.A.L.	COL. 2 (PULP) %Fe N.A.L.	COL. 3 (PEA) %Fe N.A.L.	COL. 4 (PULP) %Fe B.C.	[(1-2)/1] N.A.L. %Fe VARIANCE	[(1-3)/1] N.A.L. %Fe VARIANCE	[(1-4)/1] NAL:BC %Fe VARIANCE
	896-10	P-01	14758	4A4	4.08	2.19		3.2	46.32%		21.57%
	896-10	P-02	14775	5D8	7.51	5.51		7.75	26.63%		-3.20%
	896-10	P-03	14777	5D	6.83	5.88		7.39	13.91%		-8.20%
	896-10	P-04	14790	4C5	0.91	1.33		2.59			
	896-10	P-05	14791	4A0	2.67	4.27					
	896-11	P-06	14816	5B269	6.25	5.05		8.28	19.20%		-32.48%
	896-11	P-07	14819	4A0	6.26	4.85		8.07	22.52%		-28.91%
G-1	896-11	P-08	14823	4CA	5.36	4.03	3.78		24.81%	29.48%	
G-2	896-13	P-09	14849	4A0	3.65	2.88	4.11	4.9	21.10%	-12.60%	-34.25%
G-3	896-13	P-10	14863	4A4	11.99	2.91	7.97	12.52	75.73%	33.53%	-4.42%
G-4	896-13	P-11	14870	4C5	1.98	1.96	1.87	2.99	1.01%	5.56%	-51.01%
G-5	896-17	P-12	14882	4A44	13.04	9.53	9.19	15.39	26.92%	29.52%	-18.02%
G-6	896-17	P-13	14896	4C5	4.25	3.94	4.21		7.29%	0.94%	
G-7	896-17	P-14	14904	4A0	5.3	4.17	4.03	7	21.32%	23.96%	-32.08%
G-8	896-17	P-15	14907	4A0	8.49	6.57	6.55	8.99	22.61%	22.85%	-5.89%
G-9	896-16	P-16	14924	4AD	2.27	2.02	1.97	3.2	11.01%	13.22%	-40.97%
G-10	896-16	P-17	14925	5C/4D	6.14	6	5.69	7.7	2.28%	7.33%	-25.41%
	896-16	P-18	14941	4EA4	16.13	13.32		19.86	17.42%		-23.12%
	896-18	P-19	14952	4D0	4.7	4.34		6.4	7.66%		-36.17%
	896-18	P-20	14970	4A34	16.54	12.82		19.96	22.49%		-20.68%
	896-18	P-21	14977	4C53	10.86	8.53		12.92	21.45%		-18.97%
	896-21	P-22	14999	4E16	20.59	21.52		30.37	-4.52%		-47.50%
		P-23	15440			1.02		0.85			
		P-24	15447			1.31		2.47			
		P-25	15454			1.09		1			
		P-26	15462			0.93		0.74			
		P-27	15714			2.13		2.98			
	896-20	P-28	37002	4A0	9.05	6.45		10.69	28.73%		-18.12%
	896-20	P-29	37006	4E4	20.08	14.2		24.2	29.28%		-20.52%
	896-20	P-30	37010	4A0	7.38	4.98		9.13	32.52%		-23.71%
G-12	896-19	P-31	37025	4A0#	13.96	11.11	11.86	16.17	20.42%	15.04%	-15.83%
G-13	896-19	P-32	37050	4L24	13.46	14.78	14.58	18.61	-9.81%	-8.32%	-38.26%
G-14	896-23	P-33	37136	4H135	19.99	21.84	22.6	27.94	-9.25%	-13.06%	-39.77%
G-15	896-23	P-34	37139	4A4	9.87	11.35	11.59	16.48	-14.99%	-17.43%	-66.97%
	896-15	P-35	37168	4A0	4.71	5.08		6.45	-7.86%		-36.94%
G-16	896-15	P-36	37177	4D0	4.66	5.46	4.89	6.08	-17.17%	-4.94%	-30.47%
G-17	896-15	P-37	37191	4C5	4.5	5.22	4.51	6.98	-16.00%	-0.22%	-55.11%
G-18	896-15	P-38	37200	4AC	8.74	8.21	7.95	11.46	6.06%	9.04%	-31.12%
G-19	896-25	P-39	37231	4E4	26.22	20.61	20.24	33.31	21.40%	22.81%	-27.04%
	896-14	P-40	41954	4A44	14.06	10.02			28.73%		
	896-14	P-41	41960	5D6	4.39	5.09		5.09	-15.95%		-15.95%
	896-14	P-42	41982	4DAE	23.41	17.14		24.45	26.78%		-4.44%
	896-14	P-43	41984	4A0	6.32	5.82		7.49	7.91%		-18.51%
	896-14	P-44	41988	4A0	12.09	8.77		13.2	27.46%		-9.18%
AVERAGE VALUE ----->					9.45	7.19	8.20	10.88	14.74%	8.71%	-25.34%

***** SAMPLE CODES FOR VARIANCE PLOTS *****

NAL:NAL		NAL:NAL		NAL:BONDAR	
INITIAL:PULP		INITIAL:PEA		INITIAL:PULP	
SAMPLE CODE	SAMPLE NUMBER	SAMPLE CODE	SAMPLE NUMBER	SAMPLE CODE	SAMPLE NUMBER
1	14758	1	14823	1	14758
2	14775	2	14849	2	14775
3	14777	3	14863	3	14777
4	14816	4	14870	4	14816
5	14819	5	14882	5	14819
6	14823	6	14896	6	14849
7	14849	7	14904	7	14863
8	14863	8	14907	8	14870
9	14870	9	14924	9	14882
10	14882	10	14925	10	14904
11	14896	11	37025	11	14907
12	14904	12	37050	12	14924
13	14907	13	37136	13	14925
14	14924	14	37139	14	14941
15	14925	15	37177	15	14952
16	14941	16	37191	16	14970
17	14952	17	37200	17	14977
18	14970	18	37231	18	14999
19	14977	19	37200	19	37002
20	14999	20	37231	20	37006
21	37002			21	37010
22	37006			22	37025
23	37010			23	37050
24	37025			24	37136
25	37050			25	37139
26	37136			26	37168
27	37139			27	37177
28	37168			28	37191
29	37177			29	37200
30	37191			30	37231
31	37200			31	41960
32	37231			32	41982
33	41954			33	41984
34	41960			34	41988
35	41982				
36	41984				
37	41988				

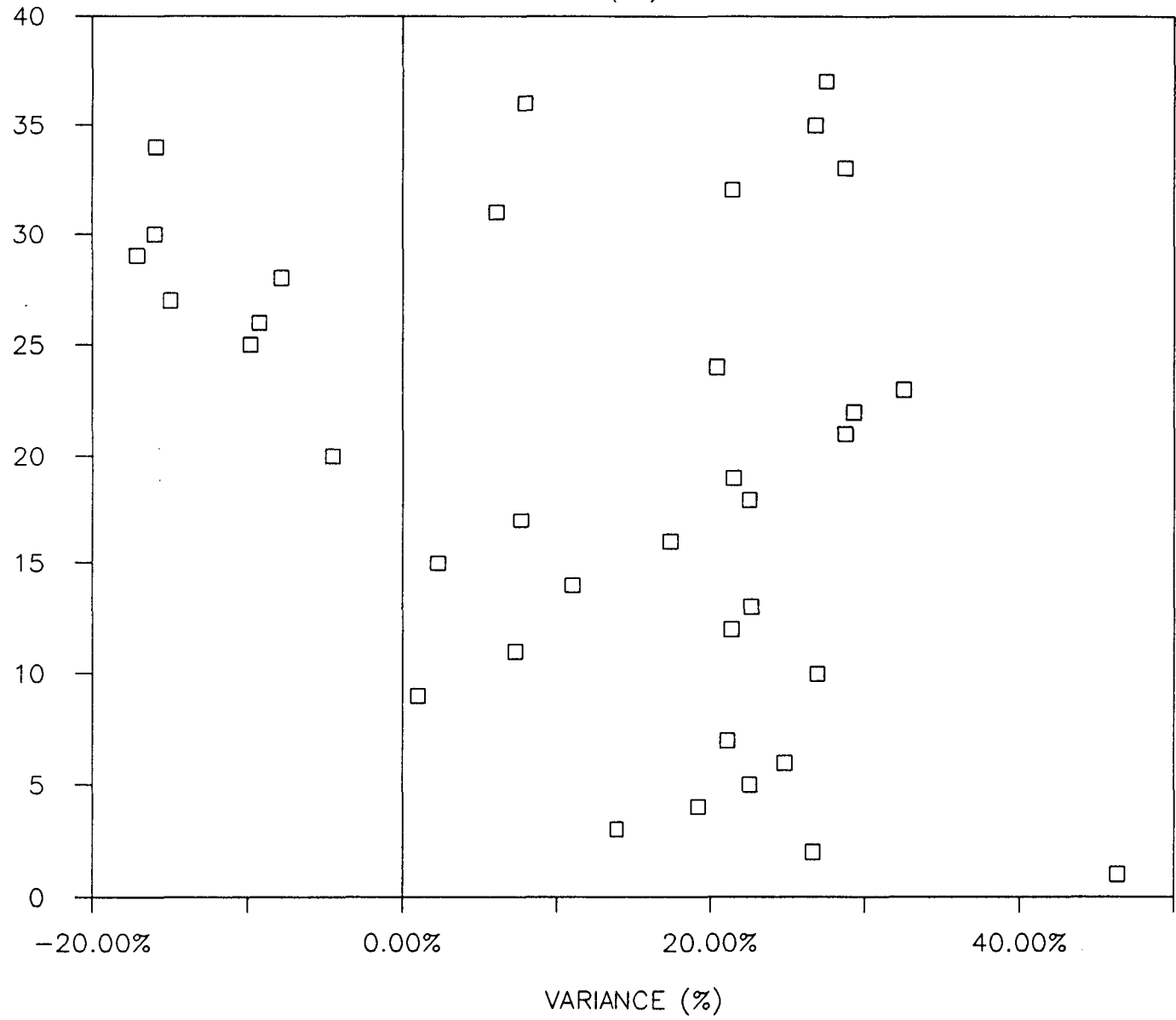
***** DATA FOR XY PLOTS *****

INITIAL (PULP)			INITIAL (PEA)			INITIAL (PULP)		
SAMPLE NUMBER	%Fe N.A.L.	%Fe N.A.L.	SAMPLE NUMBER	%Fe N.A.L.	%Fe N.A.L.	SAMPLE NUMBER	%Fe N.A.L.	%Fe B.C.
14758	4.08	2.19	14823	5.36	3.78	14758	4.08	3.2
14775	7.51	5.51	14849	3.65	4.11	14775	7.51	7.75
14777	6.83	5.88	14863	11.99	7.97	14777	6.83	7.39
14816	6.25	5.05	14870	1.98	1.87	14816	6.25	8.28
14819	6.26	4.85	14882	13.04	9.19	14819	6.26	8.07
14823	5.36	4.03	14896	4.25	4.21	14849	3.65	4.9
14849	3.65	2.88	14904	5.3	4.03	14863	11.99	12.52
14863	11.99	2.91	14907	8.49	6.55	14870	1.98	2.99
14870	1.98	1.96	14924	2.27	1.97	14882	13.04	15.39
14882	13.04	9.53	14925	6.14	5.69	14904	5.3	7
14896	4.25	3.94	37025	13.96	11.86	14907	8.49	8.99
14904	5.3	4.17	37050	13.46	14.58	14924	2.27	3.2
14907	8.49	6.57	37136	19.99	22.6	14925	6.14	7.7
14924	2.27	2.02	37139	9.87	11.59	14941	16.13	19.86
14925	6.14	6	37177	4.66	4.89	14952	4.7	6.4
14941	16.13	13.32	37191	4.5	4.51	14970	16.54	19.96
14952	4.7	4.34	37200	8.74	7.95	14977	10.86	12.92
14970	16.54	12.82	37231	26.22	20.24	14999	20.59	30.37
14977	10.86	8.53	37200	8.74	7.95	37002	9.05	10.69
14999	20.59	21.52	37231	26.22	20.24	37006	20.08	24.2
37002	9.05	6.45				37010	7.38	9.13
37006	20.08	14.2				37025	13.96	16.17
37010	7.38	4.98				37050	13.46	18.61
37025	13.96	11.11				37136	19.99	27.94
37050	13.46	14.78				37139	9.87	16.48
37136	19.99	21.84				37168	4.71	6.45
37139	9.87	11.35				37177	4.66	6.08
37168	4.71	5.08				37191	4.5	6.98
37177	4.66	5.46				37200	8.74	11.46
37191	4.5	5.22				37231	26.22	33.31
37200	8.74	8.21				41960	4.39	5.09
37231	26.22	20.61				41982	23.41	24.45
41954	14.06	10.02				41984	6.32	7.49
41960	4.39	5.09				41988	12.09	13.2
41982	23.41	17.14						
41984	6.32	5.82						
41988	12.09	8.77						

NAL INITIAL Vs. NAL PULP VARIANCE

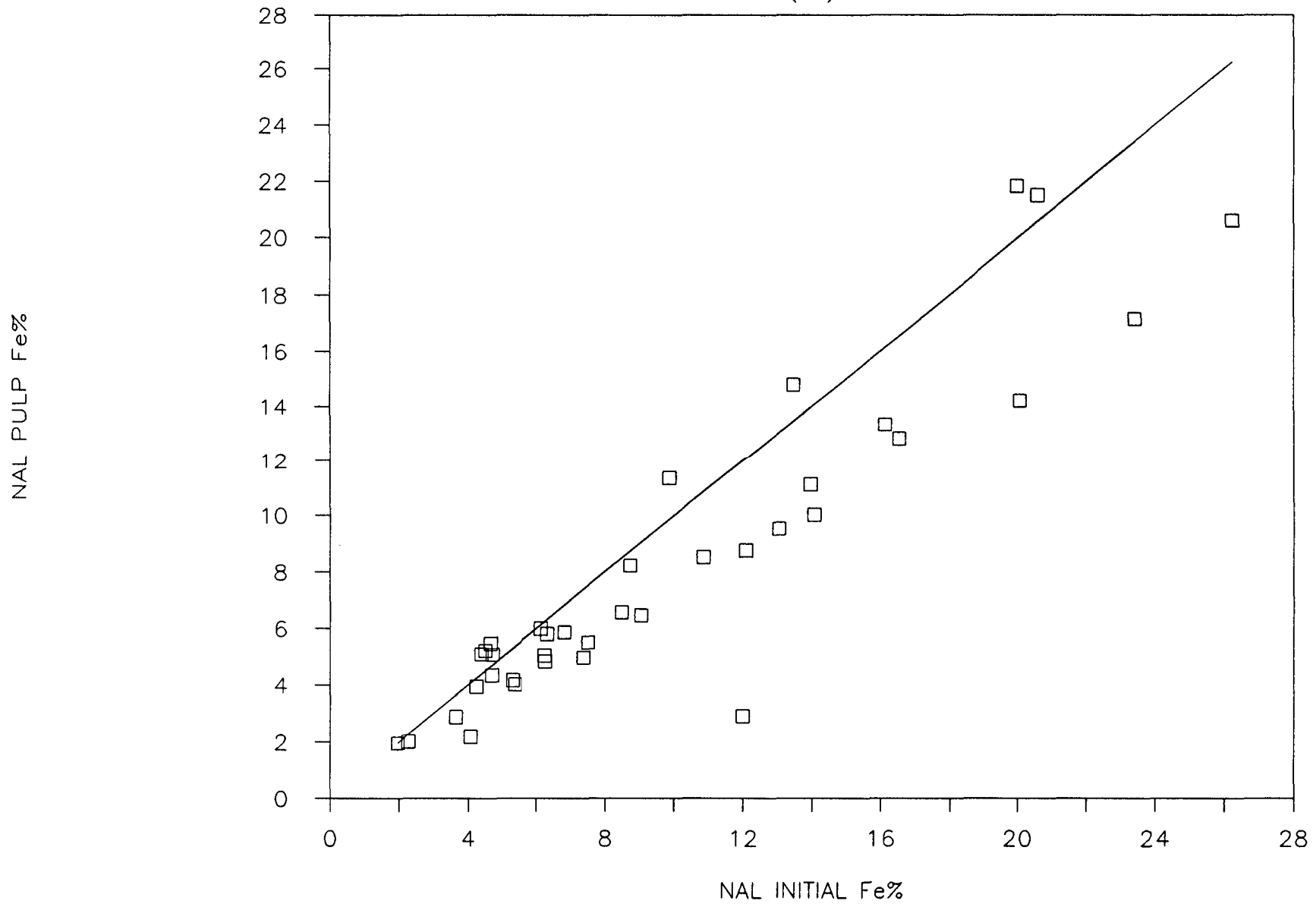
(Fe)

SAMPLE # CODE



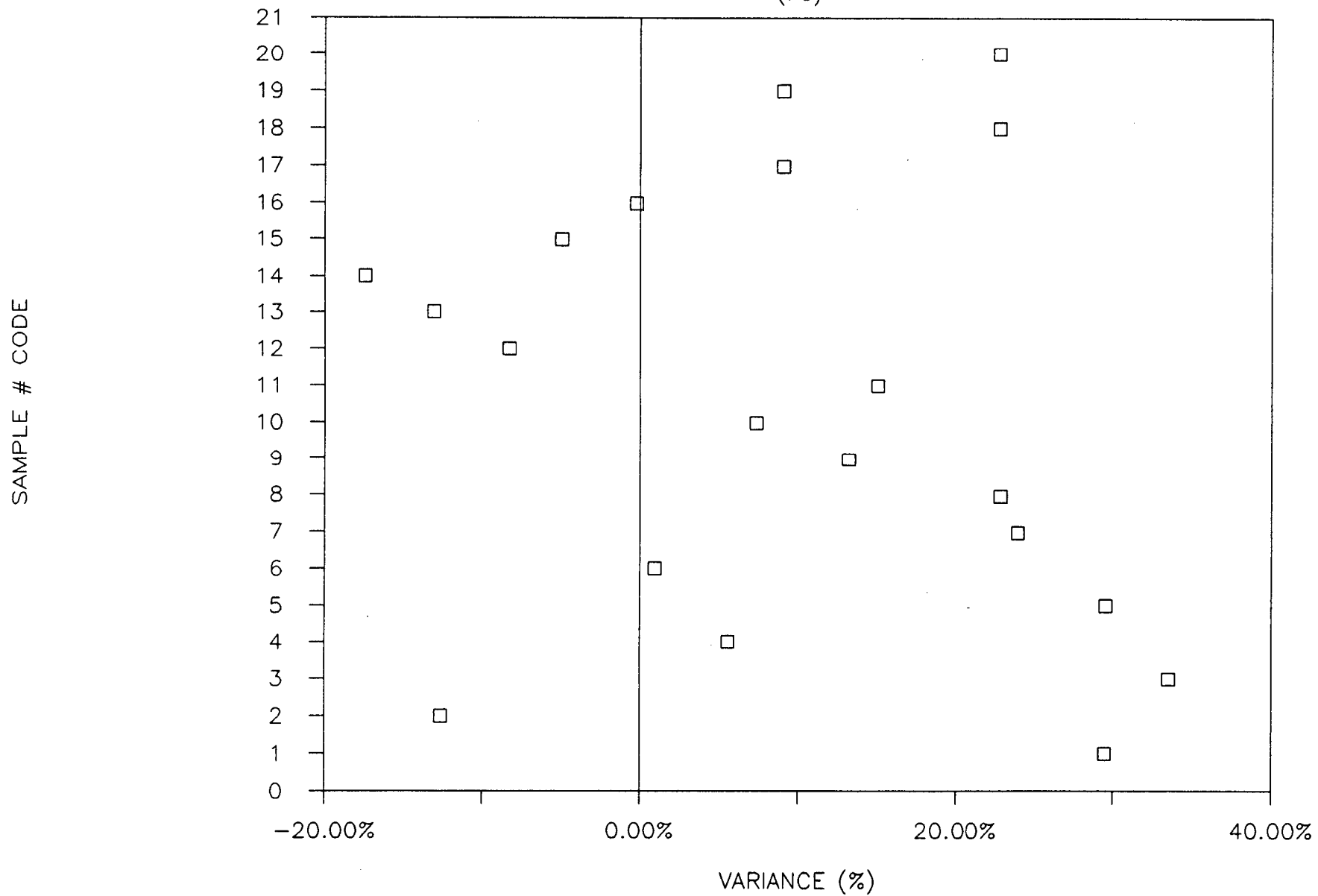
NAL INITIAL Vs. NAL PULP

(Fe)



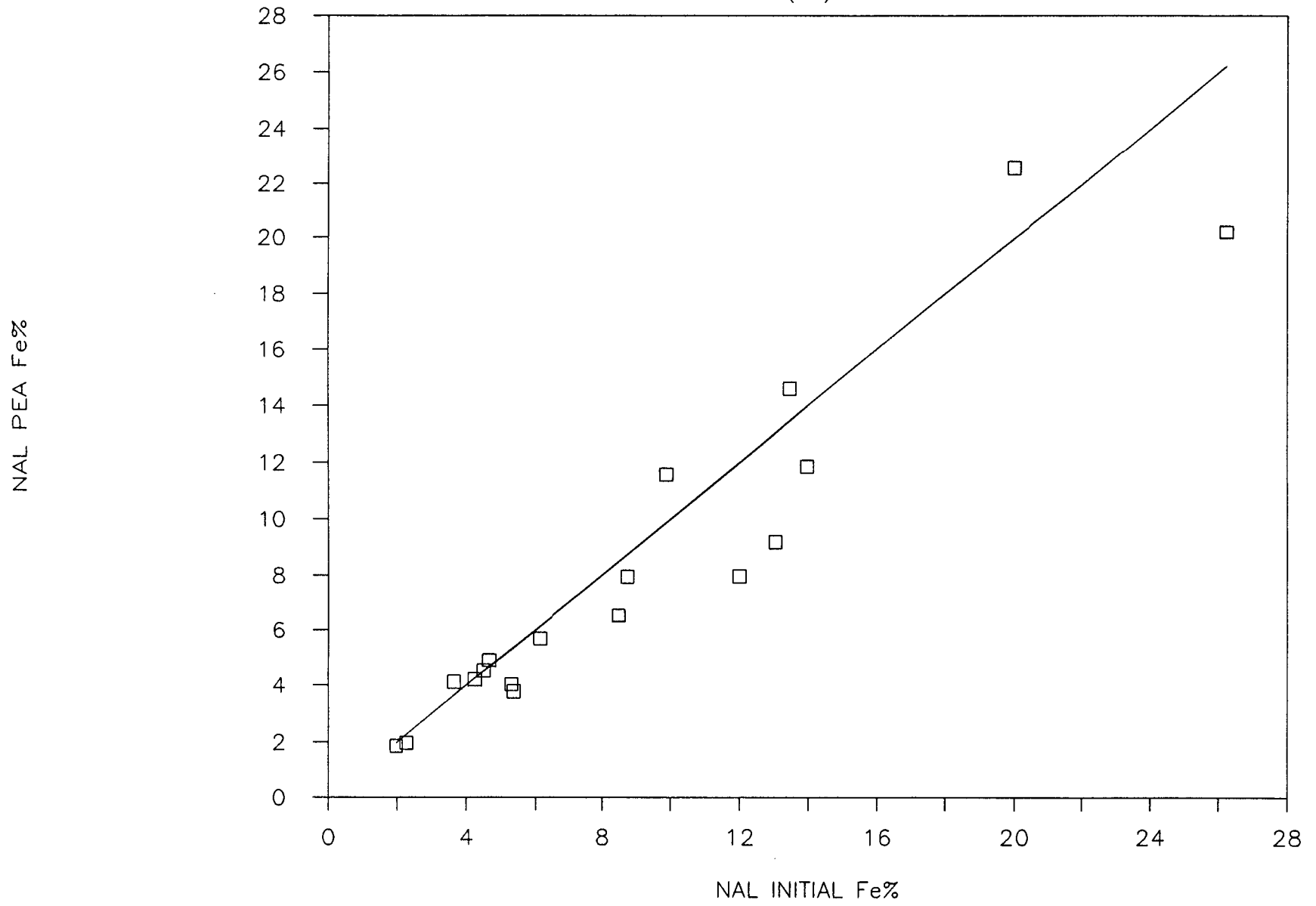
NAL INITIAL Vs. NAL PEA VARIANCE

(Fe)



NAL INITIAL Vs. NAL PEA

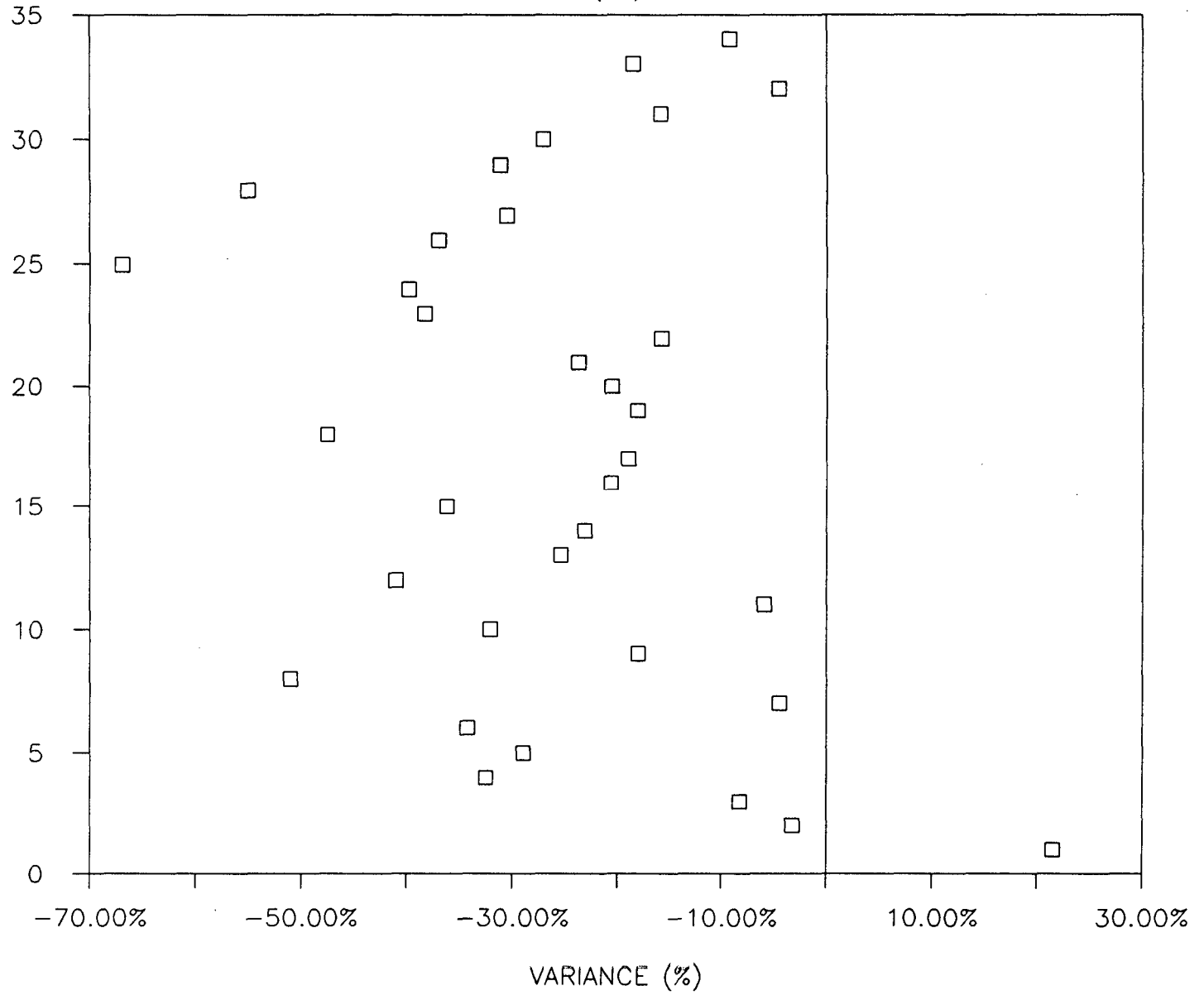
(Fe)



NAL INITIAL Vs. BONDAR PULP VARIANCE

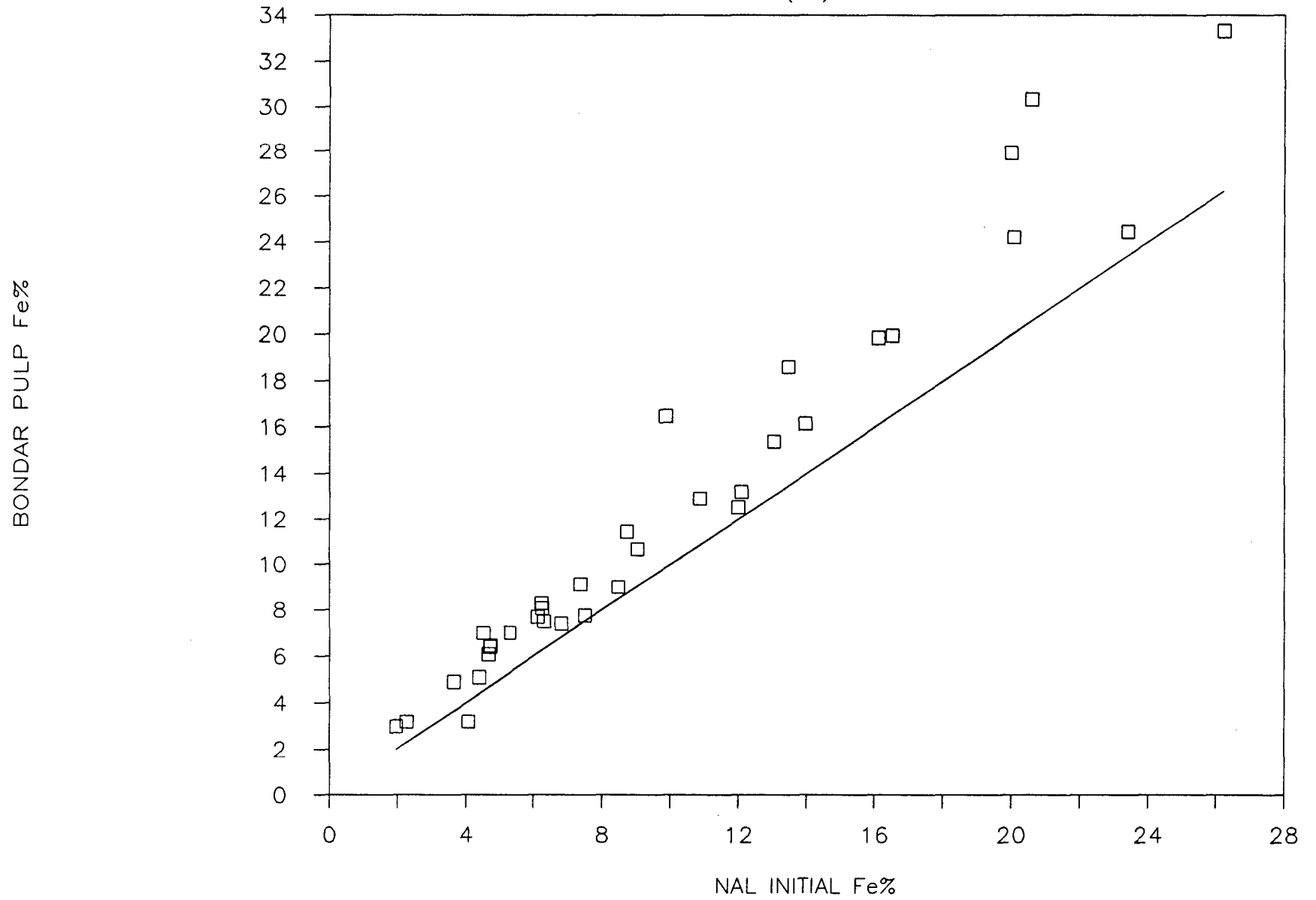
(Fe)

SAMPLE # CODE



NAL INITIAL Vs. BONDAR PULP

(Fe)



COL.3 (PEA) CHECK	COL.2 (PULP) HOLE	COL.4 (PULP) CHECK	COL.1 SAMPLE	ROCK CODE	COL.1 INITIAL Sg	COL.3 (PEA) SG	[(1-3)/1] NAL SG VARIANCE	HOLE-ID	SAMPLE NUMBER	ROCK CODE	COL.1 INITIAL SG	COL.4 (PULP) SG-PULP	[(1-4)/1] NAL:BC SG VARIANCE
N.A.L. NUMBER	N.A.L. NUMBER	B.C.	NUMBER		N.A.L.	N.A.L.					N.A.L.	B.C.	VARIANCE
896-10	P-01		14758	4A4	2.67								
896-10	P-02		14775	5D8	2.83			896-13	14857	4D5	2.74	3	-9.49%
896-10	P-03		14777	5D	2.8			896-13	14863	4A4	2.96	3	-1.35%
896-10	P-04		14790	4C5	2.67			896-13	14875	4C5	2.97	2.9	2.36%
896-10	P-05		14791	4A0	2.61				14877		3.43	3.3	3.79%
896-11	P-06		14816	5B269	2.71			896-16	14916	4CD	2.57	2.8	-8.95%
896-11	P-07		14819	4A0	2.66			896-16	14925	5C/4D	2.62	2.8	-6.87%
G-1	896-11	P-08	14823	4CA	2.76	2.57	6.88%	896-16	14937	5C/4D	2.87	2.9	-1.05%
G-2	896-13	P-09	14849	4A0	2.6	2.89	-11.15%	896-18	14952	4D0	2.67	2.9	-8.61%
G-3	896-13	P-10	14863	4A4	2.96	2.99	-1.01%	896-19	37032	4A0	3.03	3.1	-2.31%
G-4	896-13	P-11	14870	4C5	2.54	2.68	-5.51%	896-19	37060	5A964	2.98	3.1	-4.03%
G-5	896-17	P-12	14882	4A44	3.21	3.16	1.56%	896-21	37106	4E1*	4.28	4.3	-0.47%
G-6	896-17	P-13	14896	4C5	2.56	2.84	-10.94%		37187		2.51	2.8	-11.55%
G-7	896-17	P-14	14904	4A0	2.79	2.86	-2.51%		37191		2.57	2.9	-12.84%
G-8	896-17	P-15	14907	4A0	2.67	2.9	-8.61%	896-25	37210	4E14	3.37	3.3	2.08%
G-9	896-16	P-16	14924	4AD	2.62	2.78	-6.11%	896-25	37217	4A0	3.22	3.4	-5.59%
G-10	896-16	P-17	14925	5C/4D	2.62	2.82	-7.63%	896-25	37218	4E4	4.56	4.4	3.51%
	896-16	P-18	14941	4EA4	3.31			896-25	37230	4E4	4.65	4.7	-1.08%
	896-18	P-19	14952	4D0	2.67			896-26	37248	4E46	3.75	3.8	-1.33%
	896-18	P-20	14970	4A34	3.31			896-27	37365	5B46	2.70	2.8	-3.70%
	896-18	P-21	14977	4C53	2.95			896-29	37415	4C91	3.07	3.3	-7.49%
	896-21	P-22	14999	4E1*	3.84			896-30	37434	4E09	3.53	3.6	-1.98%
		P-23	15440					896-33	37468	4E8	3.28	3.6	-9.76%
		P-24	15447						41559*				
		P-25	15454						41564*				
		P-26	15462						41738				
		P-27	15714					G-13					
896-20	P-28		37002	4A0	2.7								
896-20	P-29		37006	4E4	4.87				AVERAGE		3.20	3.30	-3.94%
896-20	P-30		37010	4A0	2.81				VALUE				
G-12	896-19	P-31	37025	4A0*	2.88	3.09	-7.29%						
G-13	896-19	P-32	37050	4L24	3.12	3.24	-3.85%						
G-14	896-23	P-33	37136	4H135	3.2	3.4	-6.25%						
G-15	896-23	P-34	37139	4A4	3.04	3.18	-4.61%						
	896-15	P-35	37168	4A0	2.55								
G-16	896-15	P-36	37177	4D0	2.8	2.86	-2.14%						
G-17	896-15	P-37	37191	4C5	2.57	2.77	-7.78%						
G-18	896-15	P-38	37200	4AC	2.78	2.7	2.88%						
G-19	896-25	P-39	37231	4E4	4.62	4.48	3.03%						
	896-14	P-40	41954	4A44	3.1								
	896-14	P-41	41960	5D6	2.67								
	896-14	P-42	41982	4DAE	3.39								
	896-14	P-43	41984	4A0	2.61								
	896-14	P-44	41988	4A0	2.83								
		AVERAGE VALUE			2.95	3.01	-3.95%						

SAMPLE CODES FOR VARIANCE PLOTS

DATA FOR XY PLOTS

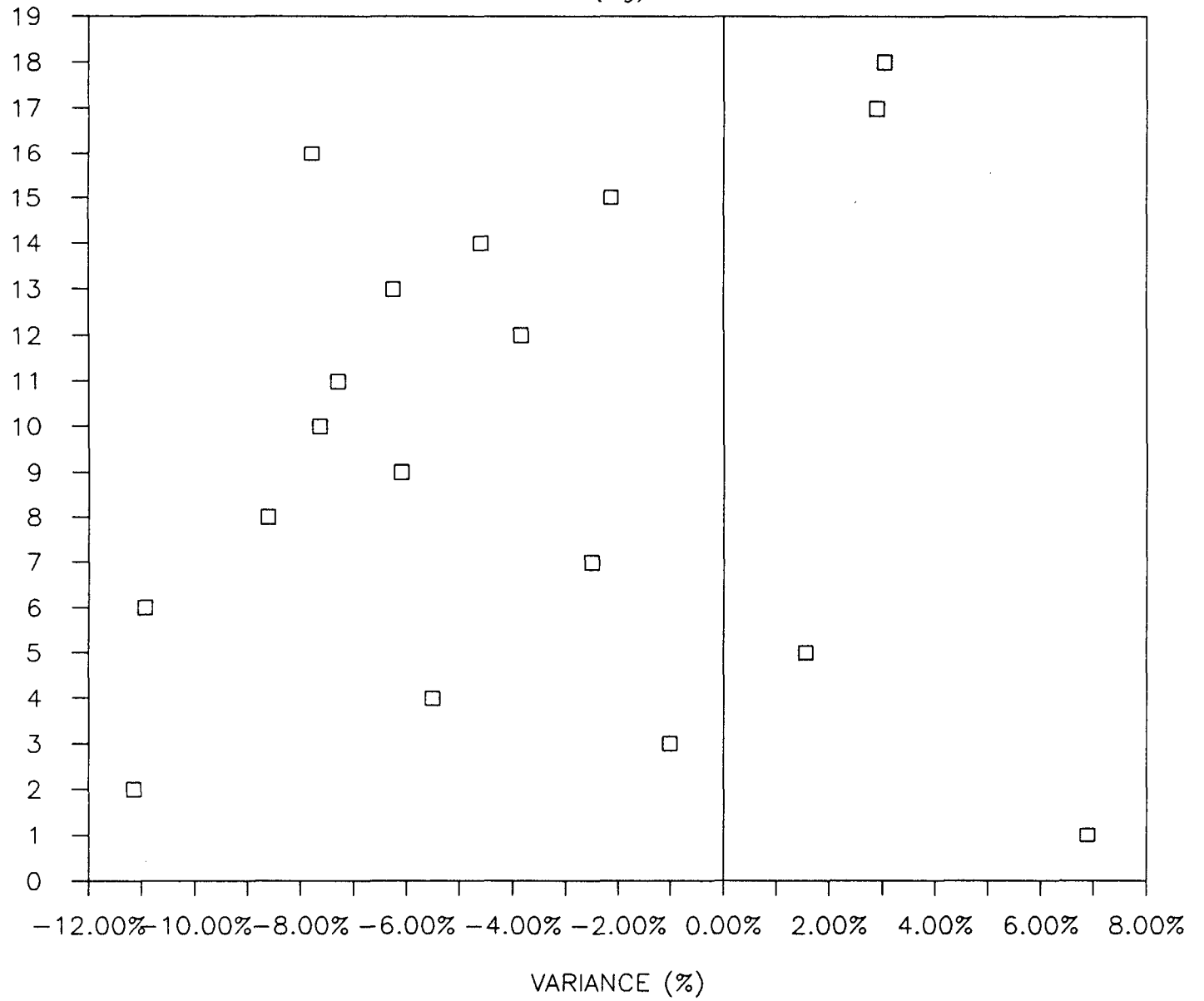
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INITIAL:PEA		INITIAL:PULP	
SAMPLE	SAMPLE	SAMPLE	SAMPLE
CODE	NUMBER	CODE	NUMBER
1	14823	1	14857
2	14849	2	14863
3	14863	3	14875
4	14870	4	14877
5	14882	5	14916
6	14896	6	14925
7	14904	7	14937
8	14907	8	14952
9	14924	9	37032
10	14925	10	37060
11	37025	11	37106
12	37050	12	37187
13	37136	13	37191
14	37139	14	37210
15	37177	15	37217
16	37191	16	37218
17	37200	17	37230
18	37231	18	37248
		19	37365
		20	37415
		21	37434
		22	37468

SAMPLE NUMBER	INITIAL (PEA)		SAMPLE NUMBER	INITIAL (PULP)	
	Sg N.A.L.	SG N.A.L.		SG N.A.L.	SG-PULP B.C.
14823	2.76	2.57	14857	2.74	3
14849	2.6	2.89	14863	2.96	3
14863	2.96	2.99	14875	2.97	2.9
14870	2.54	2.68	14877	3.43	3.3
14882	3.21	3.16	14916	2.57	2.8
14896	2.56	2.84	14925	2.62	2.8
14904	2.79	2.86	14937	2.87	2.9
14907	2.67	2.9	14952	2.67	2.9
14924	2.62	2.78	37032	3.03	3.1
14925	2.62	2.82	37060	2.98	3.1
37025	2.88	3.09	37106	4.28	4.3
37050	3.12	3.24	37187	2.51	2.8
37136	3.2	3.4	37191	2.57	2.9
37139	3.04	3.18	37210	3.37	3.3
37177	2.8	2.86	37217	3.22	3.4
37191	2.57	2.77	37218	4.56	4.4
37200	2.78	2.7	37230	4.65	4.7
37231	4.62	4.48	37248	3.75	3.8
			37365	2.70	2.8
			37415	3.07	3.3
			37434	3.53	3.6
			37468	3.28	3.6

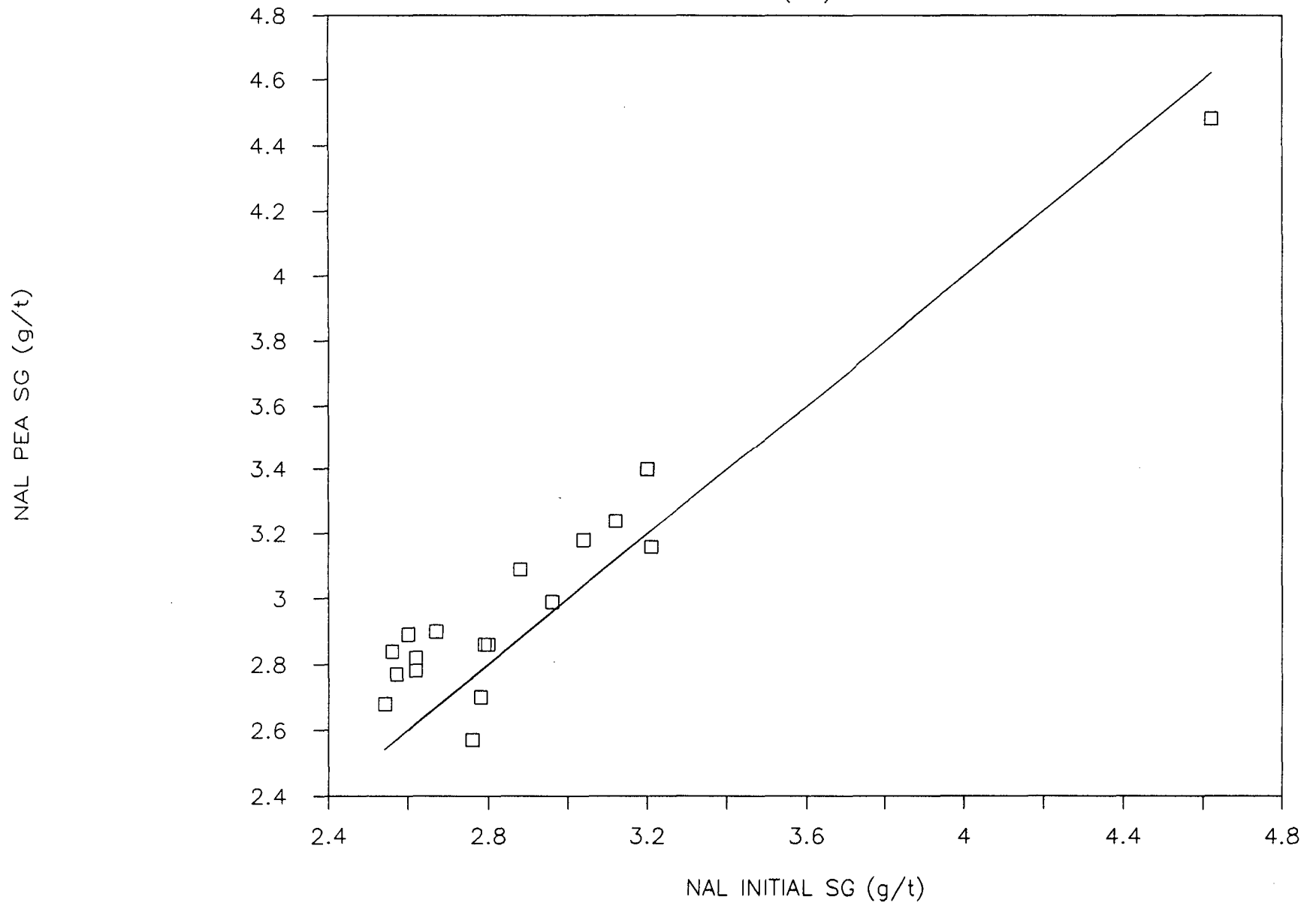
NAL INITIAL Vs. NAL PEA VARIANCE

(Sg)

SAMPLE # CODE



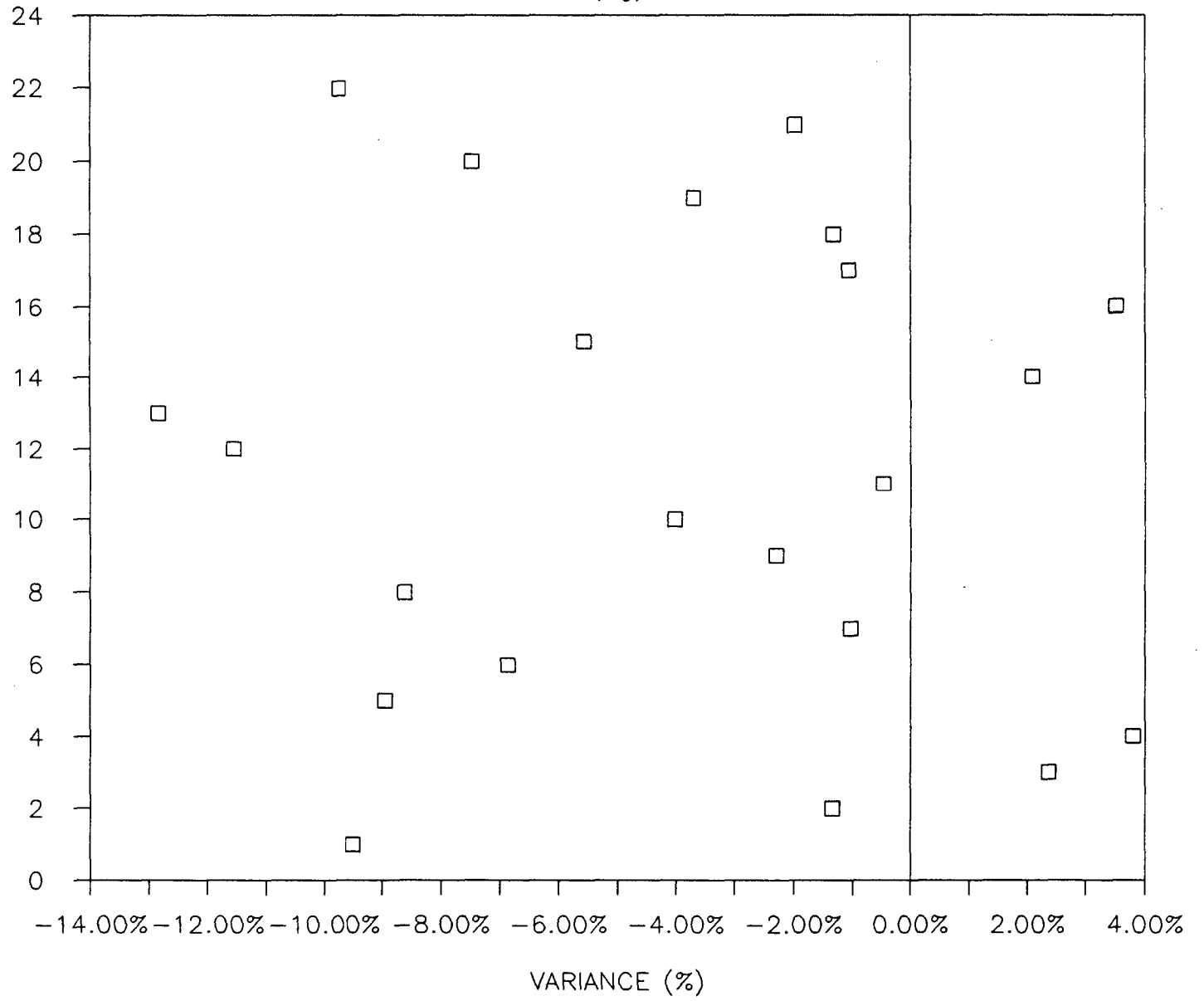
NAL INITIAL Vs. NAL PEA
(SG)



NAL INITIAL Vs. BONDAR PULP VARIANCE

(Sg)

SAMPLE # CODE



NAL INITIAL Vs. BONDAR PULP

(SG)

BONDAR PULP SG (g/t)

