

Section 4

Graphical ~~Compiled~~ Analysis of Plant Operating Data

Examination of 1988 routine plant operating data proceeded on the following basis:

- Dependent variable - % gold extraction to solution
- Independent variables - Head grade, oz/ton Au
- Feed slurry flowrate, USGPM. Calculated from daily tonnage, % solids, and plant availability.
- Feed slurry density, % solids.
- Feed slurry pH
- Tailings residual NaCN, lb/ton solution.

The data are presented in three formats to depict the nature of the variations in each variable and to allow examination of interrelationships. Due to time limitations, the emphasis is on presentation of results and only first pass indication of cause/effects.

A. Trends or Histograms of Raw Data

- o The main variable, % gold extraction, was plotted in Graph 1 on a moving 3 day average to convey an overview of the season's performance.
- o Graphs 2 to 6 depict the raw daily gold extraction data versus each of the plant variables - one at a time.

B. Sorting of Data by Increasing Extraction (Recovery)

- o Daily data rows have been sorted by increasing extraction and plotted as a progression. The associated independent variable is then plotted in time correspondence and a linear regression line determined.
- o Graph 7 - shows that decreasing tonnage (tons of feed solids/24 hours) is associated with increasing gold extraction to solution.
- o Graph 8 - shows that changes in feed % solids are not associated with changes in gold extraction. This is a strong indication since the linear regression line is horizontal.

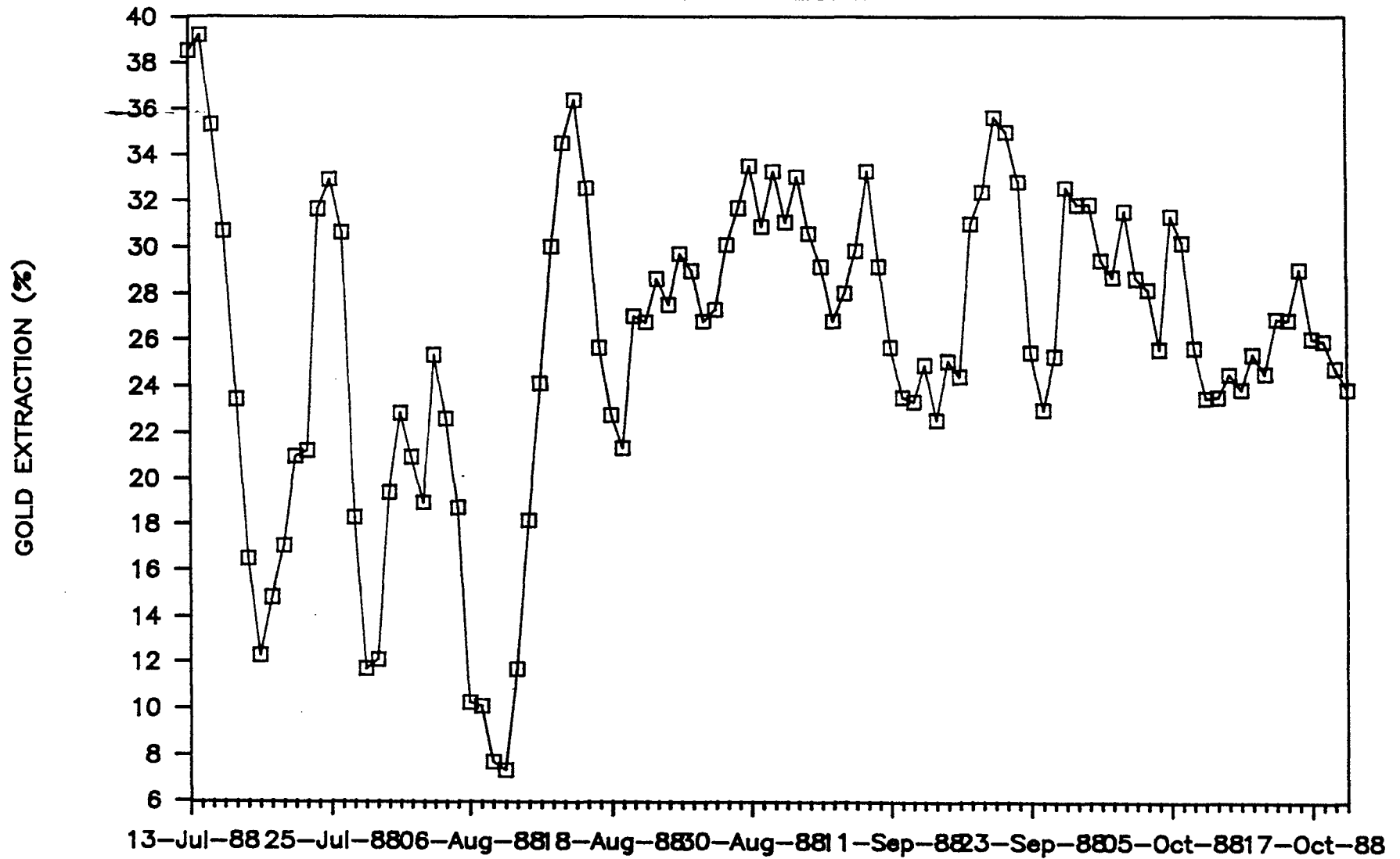
C. Linear Regression of Gold Extraction Versus each Independent Variable

- o Tailings cyanide concentration was removed from this analysis as there was insufficient recorded measurements at the start of the season.
- o Graphs 9-12 show the relationship between gold extraction and head grade, flowrate, density and pH. All linear regressions are statistically weak. The strongest correlation of the four was with head grade - and this is not a controllable variable.

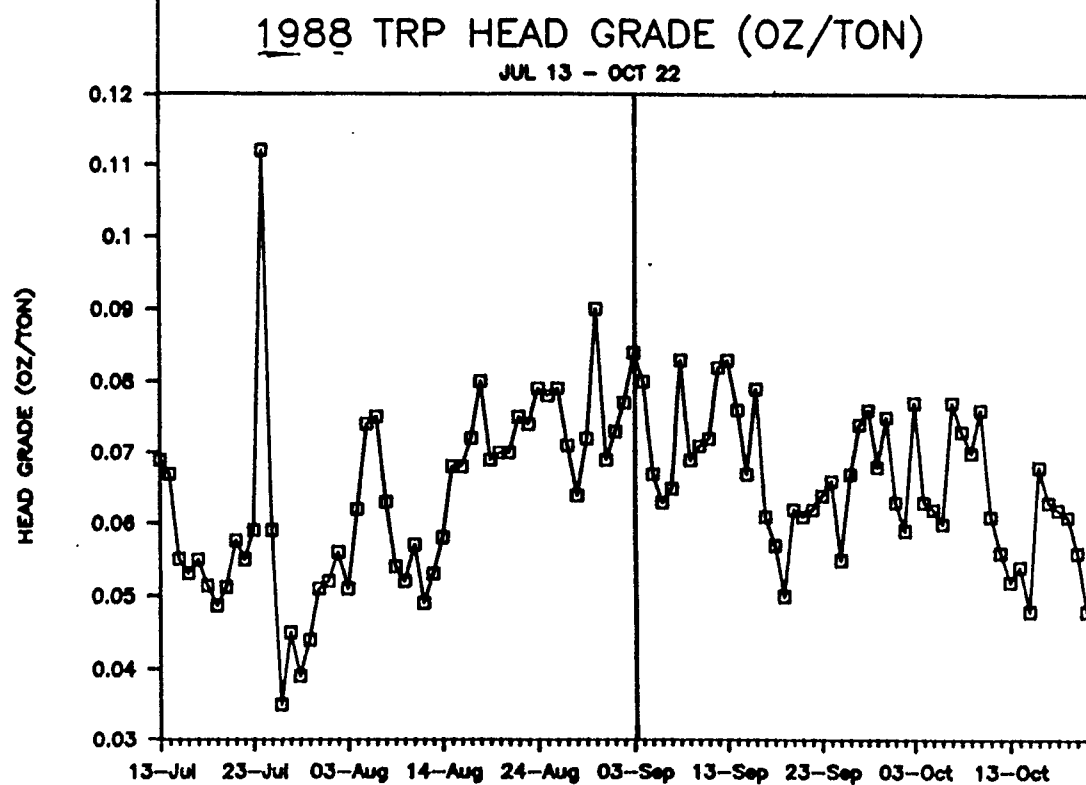
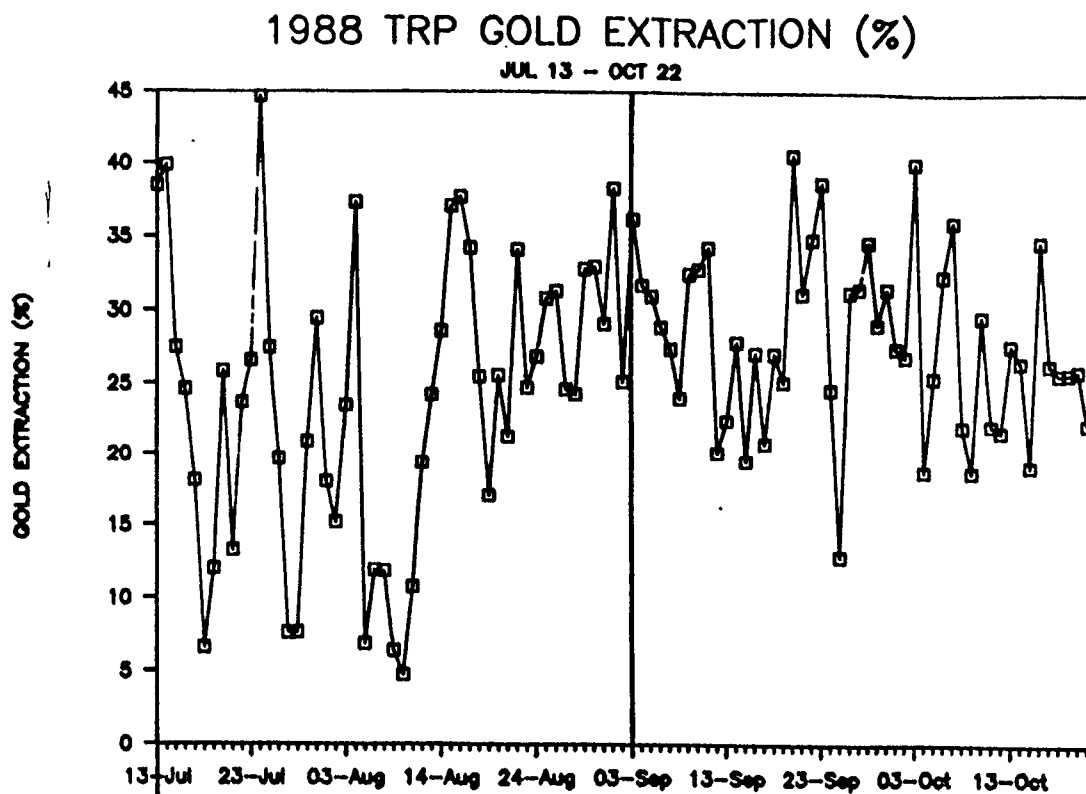
D.R. Bartlett
November 7, 1988

TRP GOLD EXTRACTION

3 DAY MOVING AVERAGE

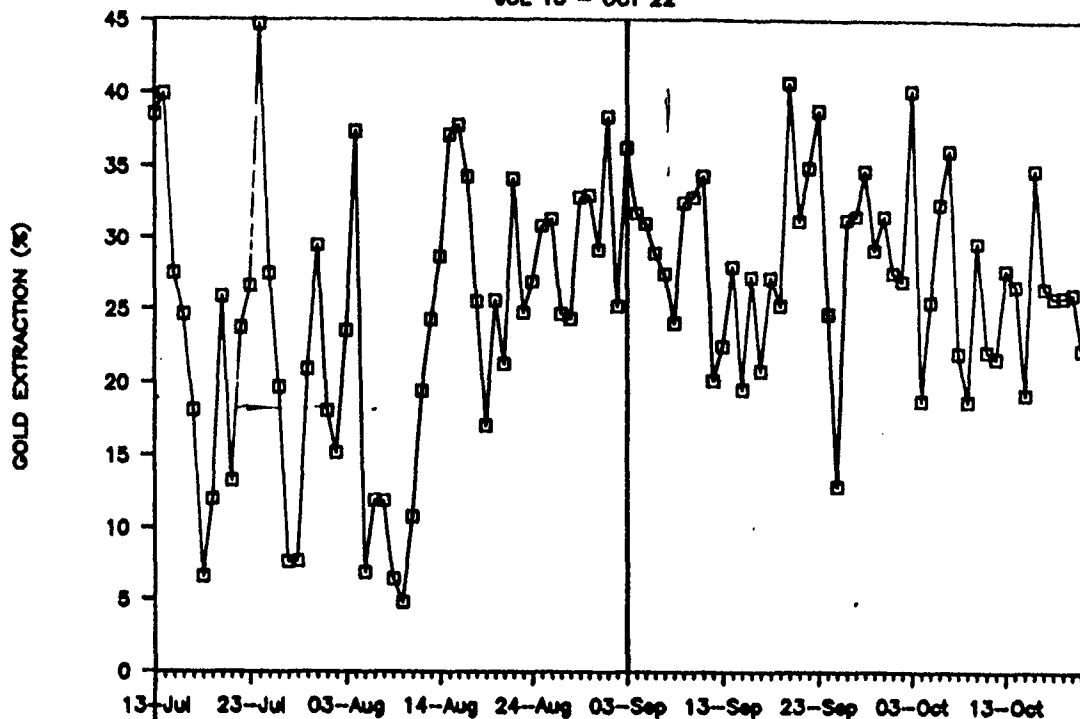


Graph 1



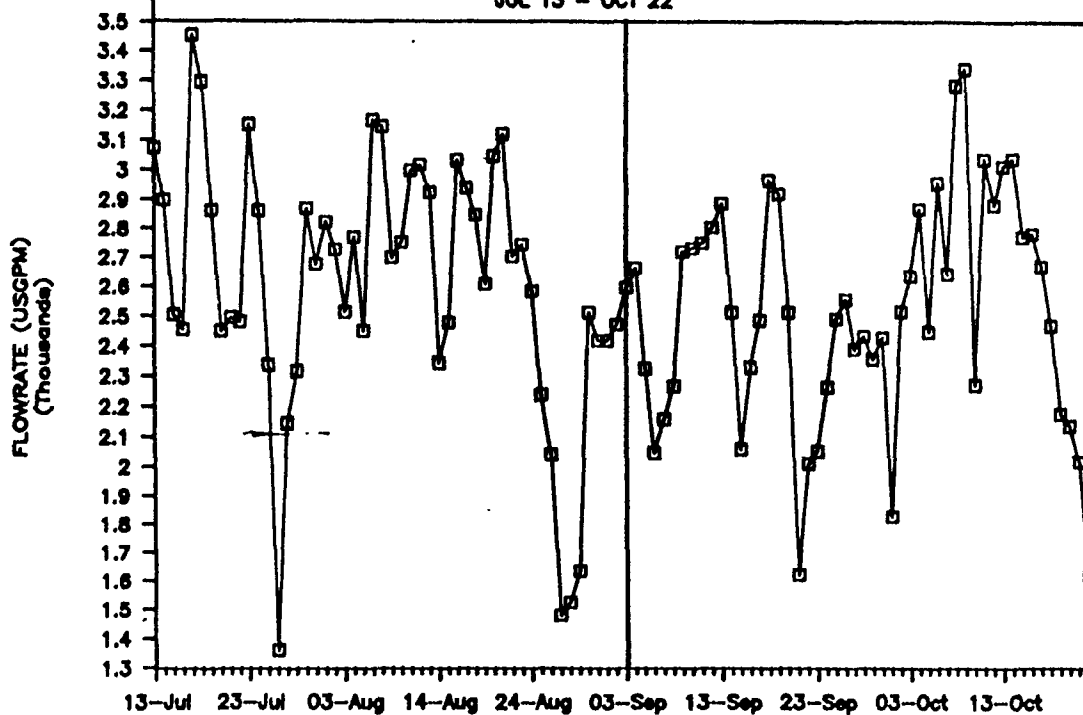
1988 TRP GOLD EXTRACTION (%)

JUL 13 - OCT 22



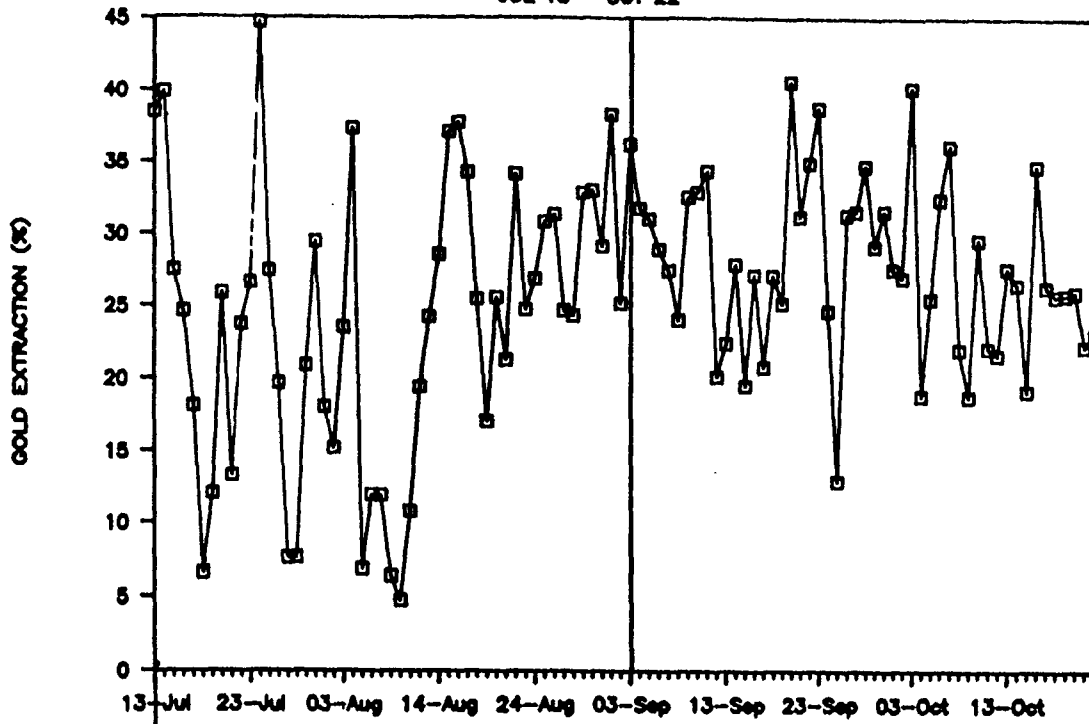
1988 TRP FLOWRATE (USGPM)

JUL 13 - OCT 22



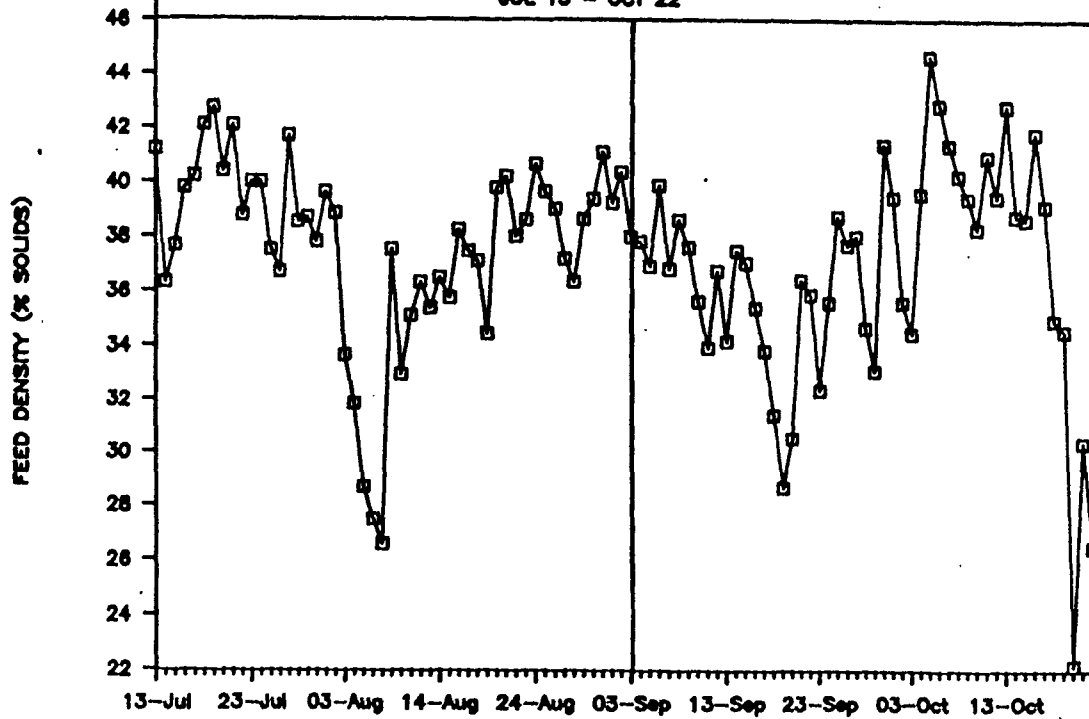
1988 TRP GOLD EXTRACTION (%)

JUL 13 - OCT 22



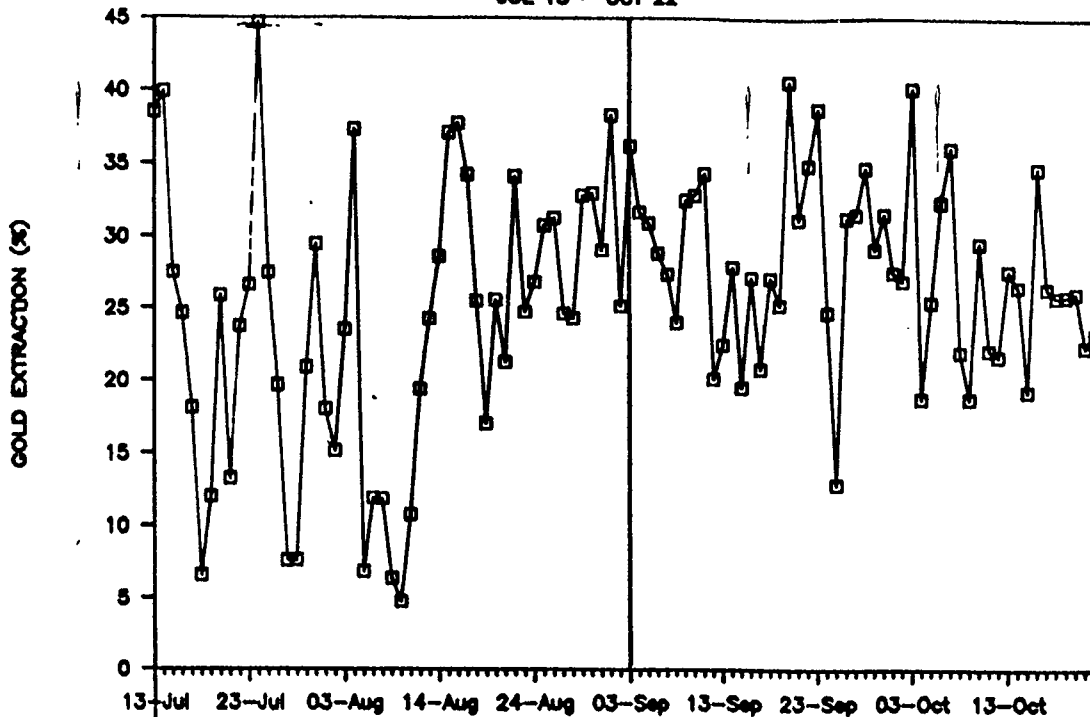
1988 TRP FEED DENSITY (% SOLIDS)

JUL 13 - OCT 22



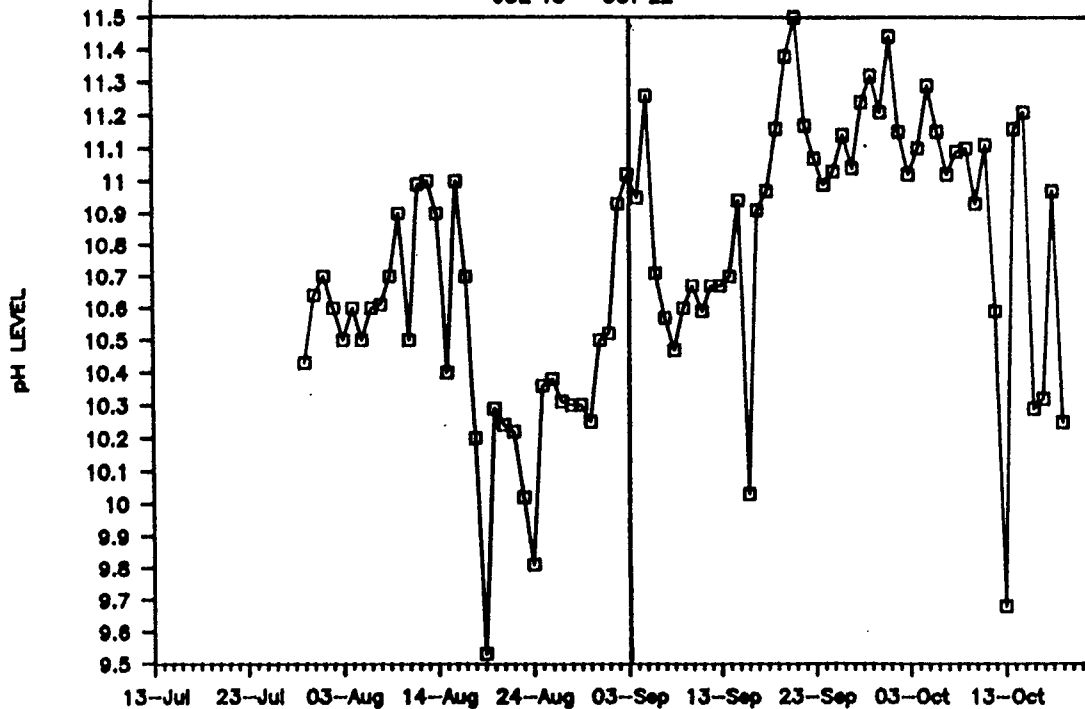
1988 TRP GOLD EXTRACTION (%)

JUL 13 - OCT 22



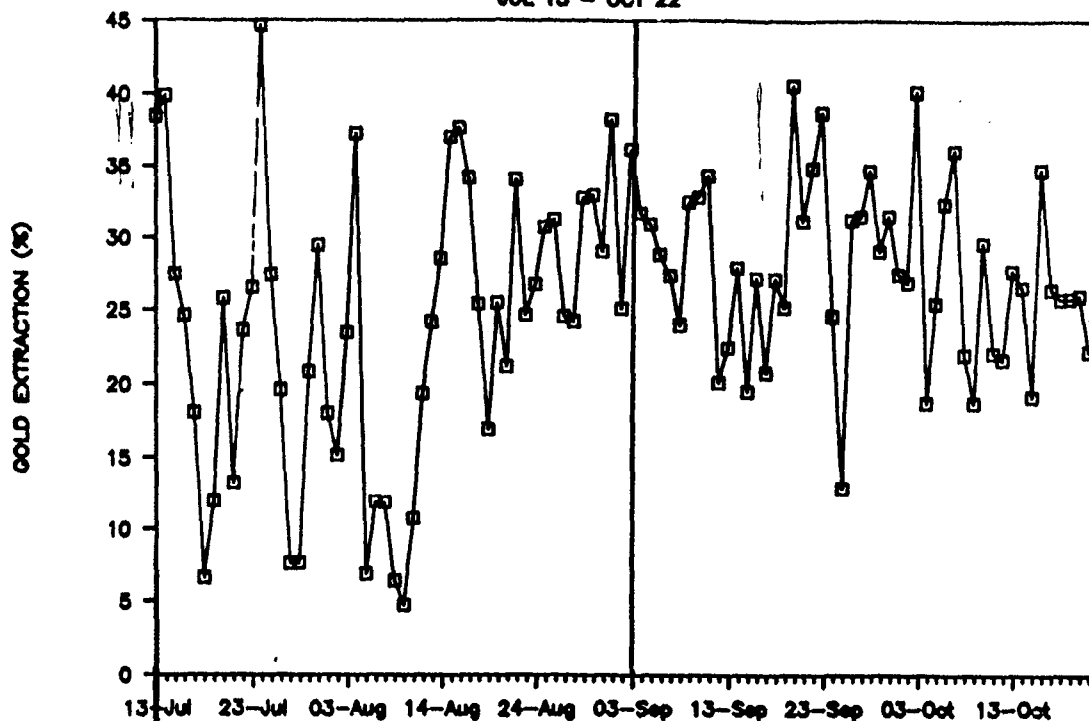
1988 TRP pH LEVELS

JUL 13 - OCT 22



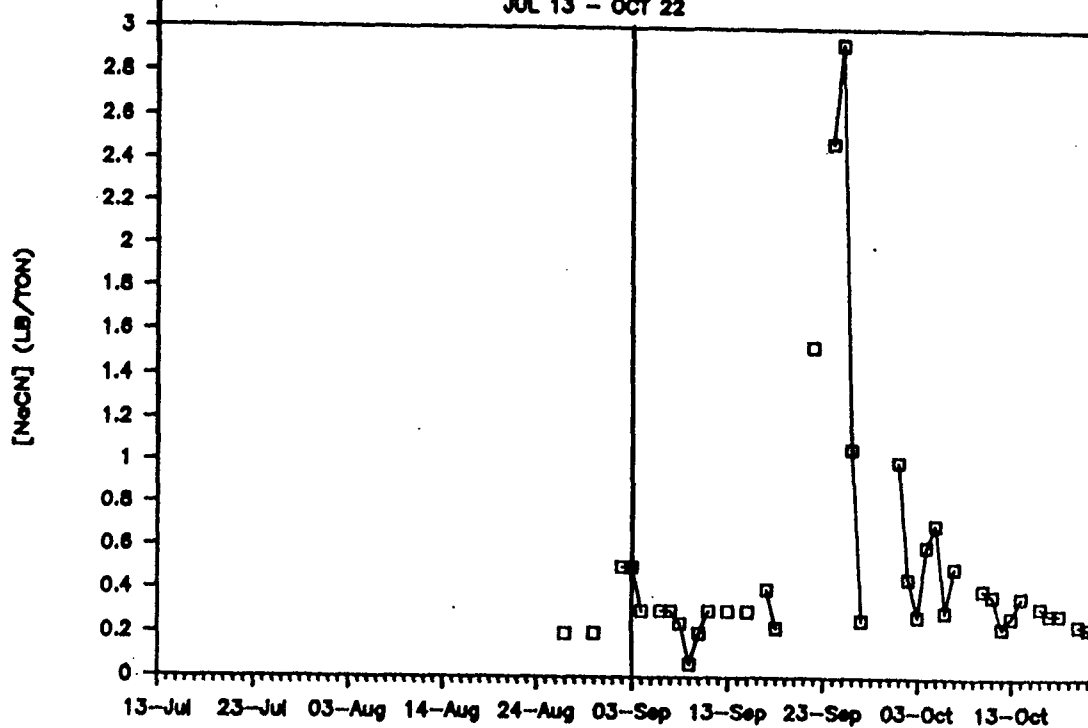
1988 TRP GOLD EXTRACTION (%)

JUL 13 - OCT 22



1988 TRP [NaCN] (LB/TON)

JUL 13 - OCT 22



1988 TRP OPERATING DATA
JUL 25, AUG 4 DELETED

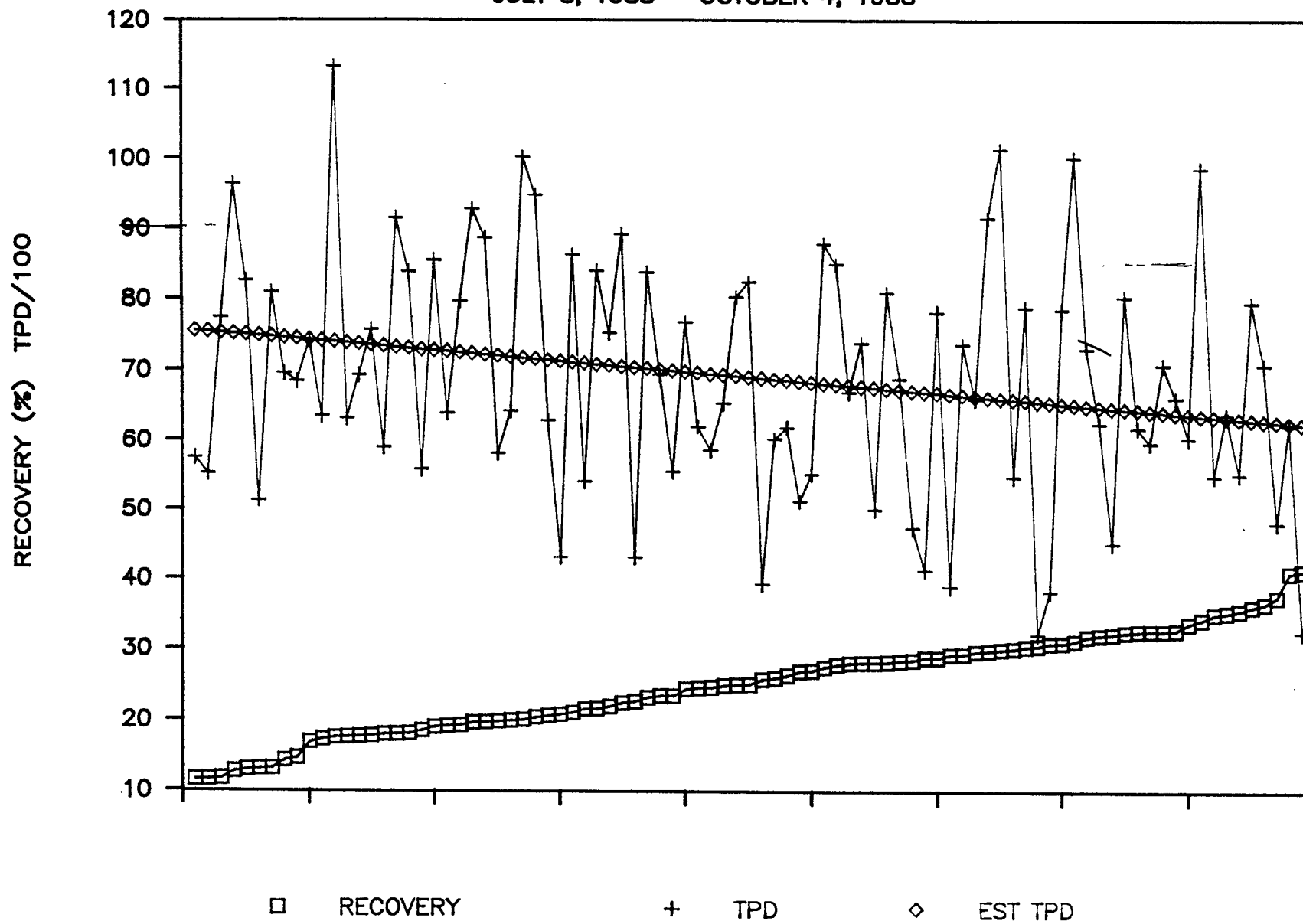
Date	Gold	Ext	Feed	ISol	Head	Oz	Tails	Oz	USGPM	CN	CONC	pH
13-Jul	38.55	41.23	0.069	0.042	3076							
14-Jul	39.94	36.34	0.067	0.040	2899							
15-Jul	27.53	37.67	0.055	0.040	2506							
16-Jul	24.67	39.80	0.053	0.040	2457							
17-Jul	18.18	40.21	0.055	0.045	3454							
18-Jul	6.64	42.10	0.051	0.048	3296							
19-Jul	12.03	42.72	0.049	0.043	2863							
20-Jul	25.88	40.39	0.051	0.038	2450							
21-Jul	13.31	42.07	0.058	0.050	2496							
22-Jul	23.73	38.78	0.055	0.042	2482							
23-Jul	26.61	40.01	0.059	0.044	3151							
24-Jul	44.69	40.00	0.112	0.062	2862							
26-Jul	27.50	37.51	0.059	0.042	2339							
27-Jul	19.73	36.73	0.035	0.028	1361							
28-Jul	7.65	41.70	0.045	0.041	2147							
29-Jul	7.69	38.56	0.039	0.036	2317							
30-Jul	20.96	38.71	0.044	0.035	2869				10.43			
31-Jul	29.50	37.81	0.051	0.036	2677				10.64			
01-Aug	18.11	39.63	0.052	0.043	2823				10.70			
02-Aug	15.21	38.87	0.056	0.048	2728				10.60			
03-Aug	23.53	33.65	0.051	0.039	2515				10.50			
04-Aug	37.33	31.83	0.062	0.077	2770				10.60			
05-Aug	6.91	28.68	0.074	0.069	2451				10.50			
07-Aug	11.93	27.47	0.075	0.066	3167				10.60			
08-Aug	11.89	26.57	0.063	0.056	3145				10.61			
09-Aug	6.42	37.53	0.054	0.050	2699				10.70			
10-Aug	4.77	32.93	0.052	0.049	2752				10.90			
11-Aug	10.80	35.10	0.057	0.051	2998				10.50			
12-Aug	19.43	36.33	0.049	0.040	3017				10.99			
13-Aug	24.28	35.38	0.053	0.040	2925				11.00			
14-Aug	28.65	36.51	0.058	0.042	2344				10.90			
15-Aug	37.10	35.77	0.068	0.043	2480				10.40			
16-Aug	37.74	38.27	0.068	0.042	3033				11.00			
17-Aug	34.30	37.49	0.072	0.047	2939				10.70			
18-Aug	25.54	37.11	0.080	0.059	2847				10.20			
19-Aug	17.12	34.44	0.069	0.057	2609				9.53			
20-Aug	25.60	39.80	0.070	0.052	3047				10.29			
21-Aug	21.30	40.22	0.070	0.055	3120				10.24			
22-Aug	34.19	38.02	0.075	0.050	2703				10.22			
23-Aug	24.80	38.62	0.074	0.056	2743				10.02			
24-Aug	26.90	40.66	0.079	0.058	2585				9.81			
25-Aug	30.87	39.66	0.078	0.054	2241				10.36			
26-Aug	31.37	39.03	0.079	0.054	2042				10.38			
27-Aug	24.68	37.18	0.071	0.053	1480	0.2			10.31			
28-Aug	24.35	36.36	0.064	0.048	1524				10.30			
29-Aug	32.88	38.67	0.072	0.048	1635				10.30			
30-Aug	33.04	39.39	0.090	0.060	2513	0.2			10.25			
31-Aug	29.16	41.09	0.069	0.049	2418				10.50			
01-Sep	38.32	39.24	0.073	0.045	2418				10.52			
02-Sep	25.20	40.36	0.077	0.058	2473	0.5			10.93			

1988 TRP OPERATING DATA
JUL 25, AUG 4 DELETED

Date	Gold	Ext	Feed	ISol	Head	Oz	Tails	Oz	USGPM	CN	CONC	pH
03-Sep	36.26	38.00	0.084	0.053	2596	0.5						11.02
04-Sep	31.78	37.83	0.080	0.054	2663	0.3						10.95
05-Sep	31.04	36.92	0.067	0.047	2327							11.26
06-Sep	28.93	39.88	0.063	0.045	2049	0.3						10.71
07-Sep	27.46	36.83	0.065	0.048	2161	0.3						10.57
08-Sep	24.06	38.63	0.083	0.063	2270	0.245						10.47
09-Sep	32.57	37.62	0.069	0.047	2722	0.06						10.60
10-Sep	32.89	35.63	0.071	0.048	2733	0.2						10.67
11-Sep	34.35	33.93	0.072	0.047	2749	0.3						10.59
12-Sep	20.20	36.76	0.082	0.065	2804							10.67
13-Sep	22.50	34.17	0.083	0.064	2887	0.3						10.67
14-Sep	27.93	37.48	0.076	0.055	2514							10.70
15-Sep	19.59	37.05	0.067	0.054	2062	0.3						10.94
16-Sep	27.21	35.40	0.079	0.058	2332							10.03
17-Sep	20.85	33.83	0.061	0.048	2487	0.4						10.91
18-Sep	27.16	31.41	0.057	0.041	2966	0.225						10.97
19-Sep	25.22	28.68	0.050	0.037	2919							11.16
20-Sep	40.63	30.54	0.062	0.037	2513							11.38
21-Sep	31.24	36.44	0.061	0.042	1622							11.50
22-Sep	34.95	35.90	0.062	0.040	2013	1.53						11.17
23-Sep	38.76	32.35	0.064	0.039	2054							11.07
24-Sep	24.69	35.61	0.066	0.050	2268	2.48						10.99
25-Sep	12.90	38.77	0.055	0.048	2492	2.93						11.03
26-Sep	31.34	37.72	0.067	0.046	2557	1.06						11.14
27-Sep	31.57	38.04	0.074	0.051	2392	0.26						11.04
28-Sep	34.74	34.68	0.076	0.050	2433							11.24
29-Sep	29.16	33.10	0.068	0.048	2358							11.32
30-Sep	31.58	41.39	0.075	0.052	2430							11.21
01-Oct	27.54	39.48	0.063	0.046	1831	1						11.44
02-Oct	26.95	35.62	0.059	0.043	2517	0.45						11.15
03-Oct	40.15	34.48	0.077	0.046	2638	0.28						11.02
04-Oct	18.83	39.59	0.063	0.051	2869	0.6						11.10
05-Oct	25.48	44.66	0.062	0.046	2449	0.7						11.29
06-Oct	32.41	42.83	0.060	0.040	2956	0.3						11.15
07-Oct	36.09	41.36	0.077	0.049	2643	0.5						11.02
08-Oct	22.02	40.24	0.073	0.057	3284							11.09
09-Oct	18.80	39.44	0.070	0.057	3339							11.10
10-Oct	29.65	38.33	0.076	0.054	2274	0.4						10.93
11-Oct	22.14	40.95	0.061	0.047	3038	0.375						11.11
12-Oct	21.72	39.48	0.056	0.044	2881	0.23						10.59
13-Oct	27.73	42.81	0.052	0.038	3014	0.278						9.68
14-Oct	26.59	38.79	0.054	0.040	3039	0.365						11.16
15-Oct	19.28	38.66	0.048	0.039	2772							11.21
16-Oct	34.78	41.79	0.068	0.045	2783	0.32						10.29
17-Oct	26.45	39.16	0.063	0.046	2671	0.29						10.32
18-Oct	25.81	34.97	0.062	0.046	2471	0.29						10.97
19-Oct	25.87	34.59	0.061	0.046	2181							10.25
20-Oct	26.06	22.20	0.056	0.042	2143	0.24						
21-Oct	22.33	30.37	0.048	0.038	2023	0.228						
22-Oct	23.19	26.51	0.050	0.039	1623	0.13						

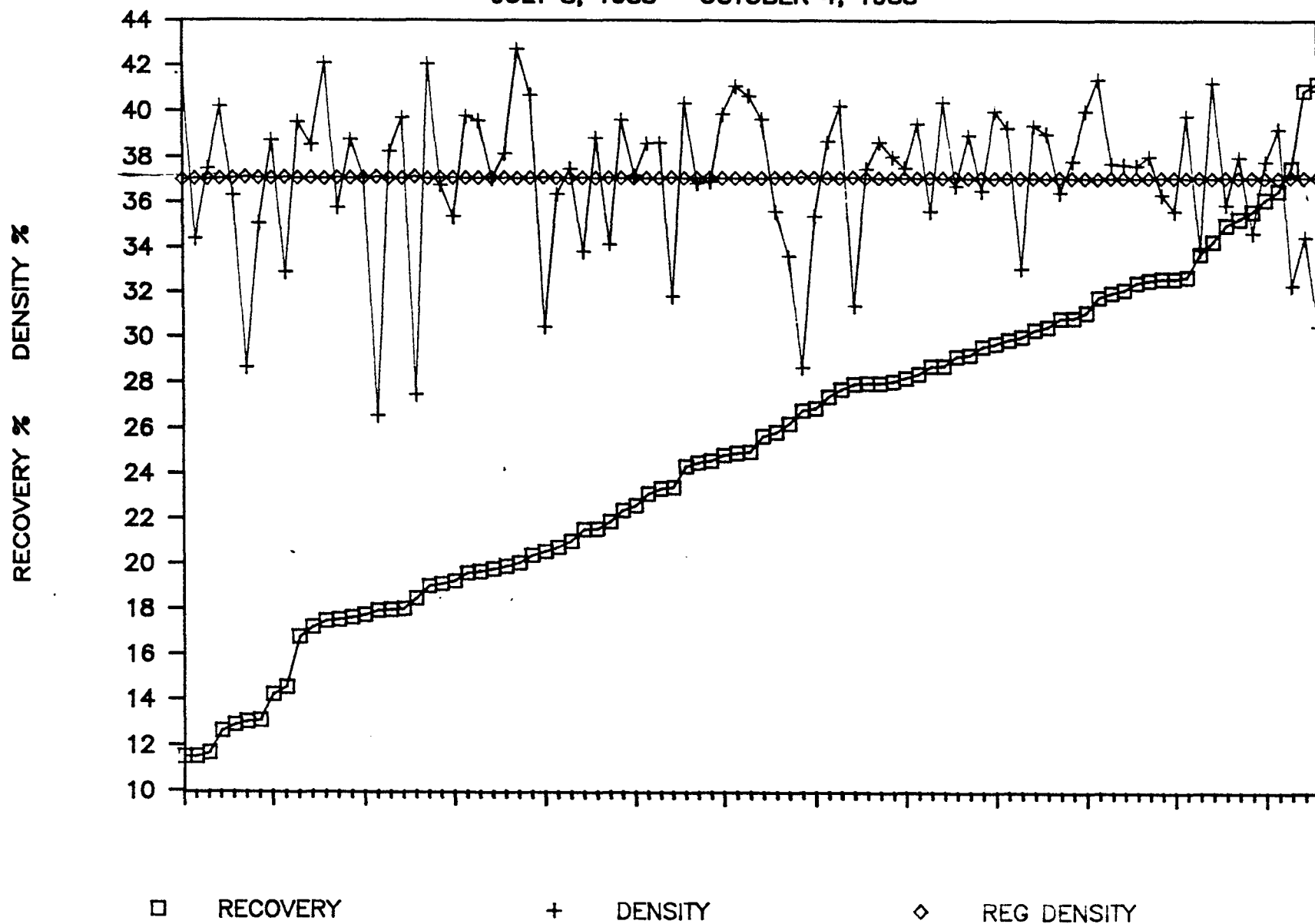
TRP TONNAGE/RECOVERY REGRESSION

JULY 8, 1988 - OCTOBER 4, 1988



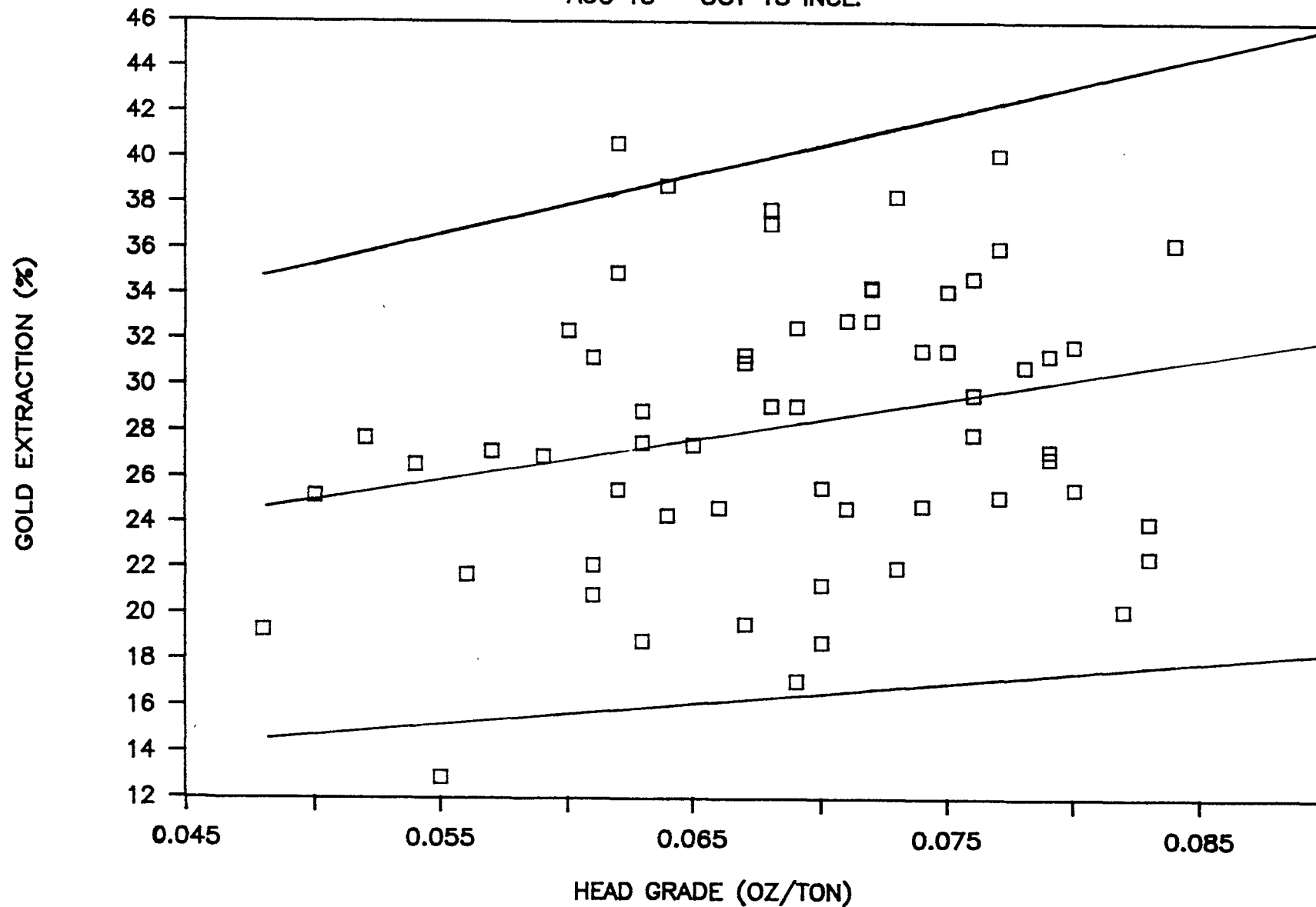
TRP DENSITY/RECOVERY REGRESSION

JULY 8, 1988 - OCTOBER 4, 1988



1988 TRP GOLD EXTRACTION VS HEAD GRADE

AUG 15 - OCT 15 INCL.



1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): HEAD GRADE
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION INCREASES WITH
INCREASING HEAD GRADE

Regression Output:

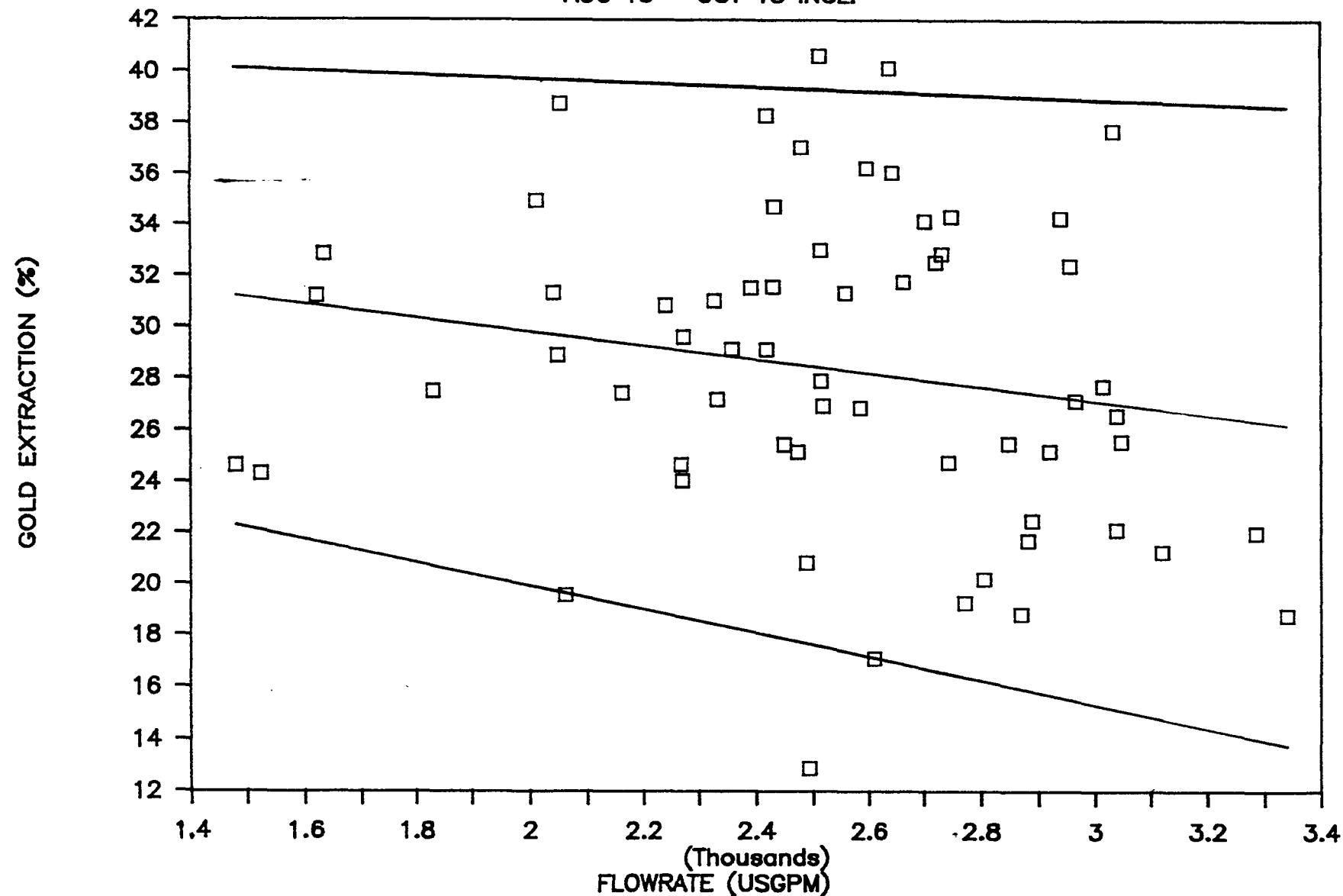
Constant	16.22235
Std Err of Y Est	5.998861
R Squared	0.066110
No. of Observations	62
Degrees of Freedom	60

X Coefficient(s)	176.2159
Std Err of Coef.	85.50292

J.H. Shepherd, Giant Yellowknife Engineering Dept.

1988 TRP GOLD EXTRACTION VS FLOWRATE

AUG 15 - OCT 15 INCL.



1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): FLOWRATE (USGPM)
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION IS NOT SIGNIFICANTLY
AFFECTED BY FLOWRATE

Regression Output:

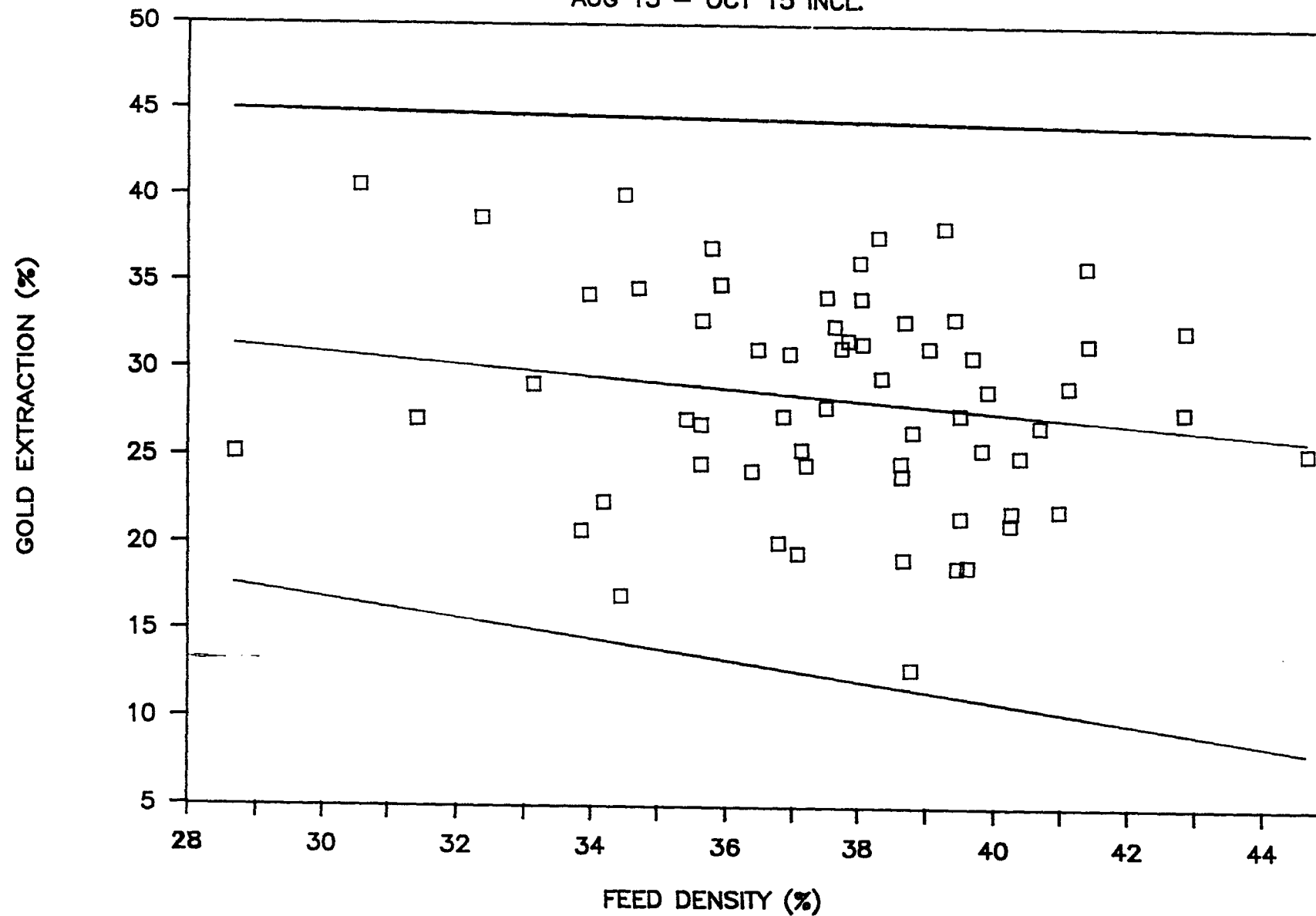
Constant	35.22470
Std Err of Y Est	6.105200
R Squared	0.032708
No. of Observations	62
Degrees of Freedom	60

X Coefficient(s) -0.00269
Std Err of Coef. 0.001892

J.H. Shepherd, Giant Yellowknife Engineering Dept.

1988 TRP GOLD EXTRACTION VS DENSITY

AUG 15 - OCT 15 INCL.



1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): FEED DENSITY
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION IS NOT SIGNIFICANTLY
AFFECTED BY FEED DENSITY

Regression Output:

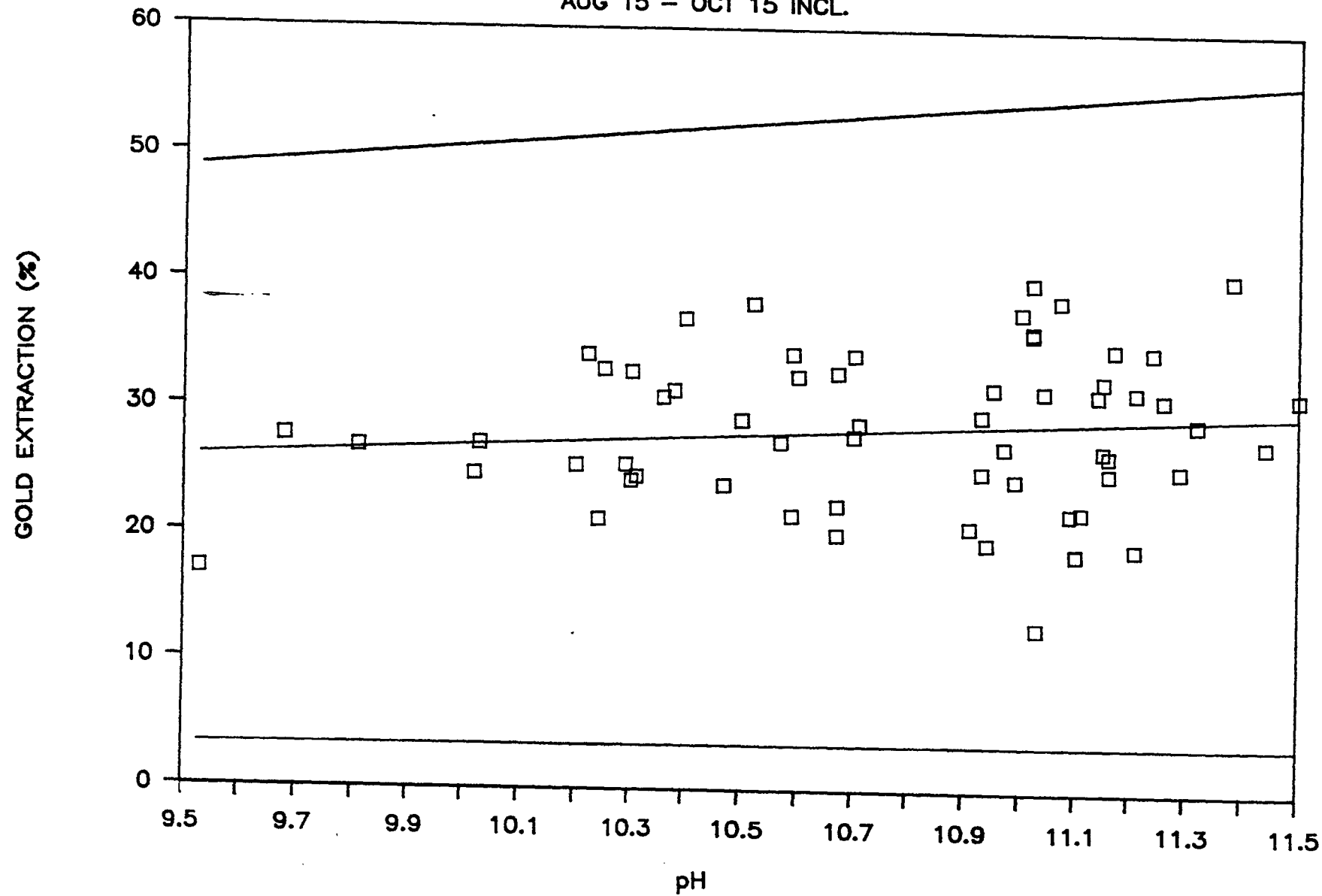
Constant	40.74367
Std Err of Y Est	6.128599
R Squared	0.025279
No. of Observations	62
Degrees of Freedom	60

X Coefficient(s)	-0.32782
Std Err of Coef.	0.262796

J.H. Shepherd, Giant Yellowknife Engineering Dept.

1988 TRP GOLD EXTRACTION VS pH

AUG 15 - OCT 15 INCL.



1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): pH
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION IS NOT SIGNIFICANTLY
AFFECTED BY pH

Regression Output:

Constant	8.454443
Std Err of Y Est	6.149752
R Squared	0.018539
No. of Observations	62
Degrees of Freedom	60

X Coefficient(s) 1.854130
Std Err of Coef. 1.741630

J.H. Shepherd, Giant Yellowknife Engineering Dept.

1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): HEAD GRADE
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION INCREASES WITH
INCREASING HEAD GRADE

Regression Output:

Constant 16.22235
Std Err of Y Est 5.998861
R Squared 0.066110
No. of Observations 62
Degrees of Freedom 60

X Coefficient(s) 176.2159
Std Err of Coef. 85.50292

J.H. Shepherd, Giant Yellowknife Engineering Dept.

Date Gold Ext Heads Reg Line Low Lim Up Lim

AUG 15	37.10	0.068	28.21	16.39	40.02
AUG 16	37.74	0.068	28.21	16.39	40.02
AUG 17	34.30	0.072	28.91	16.75	41.06
AUG 18	25.54	0.080	30.32	17.48	43.16
AUG 19	17.12	0.069	28.38	16.48	40.28
AUG 20	25.60	0.070	28.56	16.57	40.54
AUG 21	21.30	0.070	28.56	16.57	40.54
AUG 22	34.19	0.075	29.44	17.03	41.85
AUG 23	24.80	0.074	29.26	16.94	41.59
AUG 24	26.90	0.079	30.14	17.39	42.90
AUG 25	30.87	0.078	29.97	17.30	42.64
AUG 26	31.37	0.079	30.14	17.39	42.90
AUG 27	24.68	0.071	28.73	16.66	40.80
AUG 28	24.35	0.064	27.50	16.03	38.97
AUG 29	32.88	0.072	28.91	16.75	41.06
AUG 30	33.04	0.090	32.08	18.39	45.78
AUG 31	29.16	0.069	28.38	16.48	40.28
SEP 01	38.32	0.073	29.09	16.85	41.33
SEP 02	25.20	0.077	29.79	17.21	42.37
SEP 03	36.26	0.084	31.02	17.84	44.21
SEP 04	31.78	0.080	30.32	17.48	43.16
SEP 05	31.04	0.067	28.03	16.30	39.76
SEP 06	28.93	0.063	27.32	15.94	38.71
SEP 07	27.46	0.065	27.68	16.12	39.23
SEP 08	24.06	0.083	30.85	17.75	43.94
SEP 09	32.57	0.069	28.38	16.48	40.28
SEP 10	32.89	0.071	28.73	16.66	40.80
SEP 11	34.35	0.072	28.91	16.75	41.06
SEP 12	20.20	0.082	30.67	17.66	43.68
SEP 13	22.50	0.083	30.85	17.75	43.94
SEP 14	27.93	0.076	29.61	17.12	42.11
SEP 15	19.59	0.067	28.03	16.30	39.76

SEP 16	27.21	0.079	30.14	17.39	42.90
SEP 17	20.85	0.061	26.97	15.76	38.19
SEP 18	27.16	0.057	26.27	15.39	37.14
SEP 19	25.22	0.050	25.03	14.76	35.31
SEP 20	40.63	0.062	27.15	15.85	38.45
SEP 21	31.24	0.061	26.97	15.76	38.19
SEP 22	34.95	0.062	27.15	15.85	38.45
SEP 23	38.76	0.064	27.50	16.03	38.97
SEP 24	24.69	0.066	27.85	16.21	39.49
SEP 25	12.90	0.055	25.91	15.21	36.62
SEP 26	31.34	0.067	28.03	16.30	39.76
SEP 27	31.57	0.074	29.26	16.94	41.59
SEP 28	34.74	0.076	29.61	17.12	42.11
SEP 29	29.16	0.068	28.21	16.39	40.02
SEP 30	31.58	0.075	29.44	17.03	41.85
OCT 01	27.54	0.063	27.32	15.94	38.71
OCT 02	26.95	0.059	26.62	15.58	37.66
OCT 03	40.15	0.077	29.79	17.21	42.37
OCT 04	18.83	0.063	27.32	15.94	38.71
OCT 05	25.48	0.062	27.15	15.85	38.45
OCT 06	32.41	0.060	26.80	15.67	37.92
OCT 07	36.09	0.077	29.79	17.21	42.37
OCT 08	22.02	0.073	29.09	16.85	41.33
OCT 09	18.80	0.070	28.56	16.57	40.54
OCT 10	29.65	0.076	29.61	17.12	42.11
OCT 11	22.14	0.061	26.97	15.76	38.19
OCT 12	21.72	0.056	26.09	15.30	36.88
OCT 13	27.73	0.052	25.39	14.94	35.83
OCT 14	26.59	0.054	25.74	15.12	36.35
OCT 15	19.28	0.048	24.68	14.58	34.78

1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): FLOWRATE (USGPM)
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION IS NOT SIGNIFICANTLY
AFFECTED BY FLOWRATE

Regression Output:

Constant 35.22470
Std Err of Y Est 6.105200
R Squared 0.032708
No. of Observations 62
Degrees of Freedom 60

X Coefficient(s) -0.00269
Std Err of Coef. 0.001892

J.H. Shepherd, Giant Yellowknife Engineering Dept.

Date	Gold Ext	Flow Reg Line	Low Lim	Up Lim
AUG 15	37.10	2480	28.54	17.74
AUG 16	37.74	3033	27.05	15.20
AUG 17	34.30	2939	27.30	15.64
AUG 18	25.54	2847	27.55	16.06
AUG 19	17.12	2609	28.19	17.15
AUG 20	25.60	3047	27.01	15.14
AUG 21	21.30	3120	26.82	14.81
AUG 22	34.19	2703	27.94	16.72
AUG 23	24.80	2743	27.83	16.54
AUG 24	26.90	2585	28.26	17.26
AUG 25	30.87	2241	29.18	18.84
AUG 26	31.37	2042	29.72	19.75
AUG 27	24.68	1480	31.24	22.33
AUG 28	24.35	1524	31.12	22.13
AUG 29	32.88	1635	30.82	21.62
AUG 30	33.04	2513	28.45	17.59
AUG 31	29.16	2418	28.71	18.03
SEP 01	38.32	2418	28.71	18.03
SEP 02	25.20	2473	28.56	17.78
SEP 03	36.26	2596	28.23	17.21
SEP 04	31.78	2663	28.05	16.90
SEP 05	31.04	2327	28.95	18.44
SEP 06	28.93	2049	29.70	19.72
SEP 07	27.46	2161	29.40	19.20
SEP 08	24.06	2270	29.11	18.70
SEP 09	32.57	2722	27.89	16.63
SEP 10	32.89	2733	27.86	16.58
SEP 11	34.35	2749	27.82	16.51
SEP 12	20.20	2804	27.67	16.25
SEP 13	22.50	2887	27.44	15.87
SEP 14	27.93	2514	28.45	17.59
SEP 15	19.59	2062	29.67	19.66

SEP 16	27.21	2332	28.94	18.42
SEP 17	20.85	2487	28.52	17.71
SEP 18	27.16	2966	27.23	15.52
SEP 19	25.22	2919	27.36	15.73
SEP 20	40.63	2513	28.45	17.59
SEP 21	31.24	1622	30.85	21.68
SEP 22	34.95	2013	29.80	19.88
SEP 23	38.76	2054	29.69	19.70
SEP 24	24.69	2268	29.11	18.71
SEP 25	12.90	2492	28.51	17.69
SEP 26	31.34	2557	28.33	17.39
SEP 27	31.57	2392	28.78	18.15
SEP 28	34.74	2433	28.67	17.96
SEP 29	29.16	2358	28.87	18.30
SEP 30	31.58	2430	28.67	17.97
OCT 01	27.54	1831	30.29	20.72
OCT 02	26.95	2517	28.44	17.57
OCT 03	40.15	2638	28.12	17.02
OCT 04	18.83	2869	27.49	15.96
OCT 05	25.48	2449	28.62	17.88
OCT 06	32.41	2956	27.26	15.56
OCT 07	36.09	2643	28.10	17.00
OCT 08	22.02	3284	26.37	14.05
OCT 09	18.80	3339	26.23	13.80
OCT 10	29.65	2274	29.10	18.69
OCT 11	22.14	3038	27.04	15.18
OCT 12	21.72	2881	27.46	15.90
OCT 13	27.73	3014	27.10	15.29
OCT 14	26.59	3039	27.03	15.18
OCT 15	19.28	2772	27.75	16.40

1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): FEED DENSITY
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION IS NOT SIGNIFICANTLY
AFFECTED BY FEED DENSITY

Regression Output:

Constant 40.74367
Std Err of Y Est 6.128599
R Squared 0.025279
No. of Observations 62
Degrees of Freedom 60

X Coefficient(s) -0.32782
Std Err of Coef. 0.262796

J.H. Shepherd, Giant Yellowknife Engineering Dept.

Date	Gold Ext	Density	Reg Line	Low Lim	Up Lim
AUG 15	37.10	35.77	29.02	13.49	44.55
AUG 16	37.74	38.27	28.20	12.01	44.38
AUG 17	34.30	37.49	28.45	12.47	44.43
AUG 18	25.54	37.11	28.58	12.70	44.46
AUG 19	17.12	34.44	29.45	14.27	44.63
AUG 20	25.60	39.80	27.70	11.11	44.28
AUG 21	21.30	40.22	27.56	10.86	44.26
AUG 22	34.19	38.02	28.28	12.16	44.40
AUG 23	24.80	38.62	28.08	11.81	44.36
AUG 24	26.90	40.66	27.41	10.60	44.23
AUG 25	30.87	39.66	27.74	11.19	44.29
AUG 26	31.37	39.03	27.95	11.56	44.33
AUG 27	24.68	37.18	28.56	12.66	44.45
AUG 28	24.35	36.36	28.82	13.14	44.51
AUG 29	32.88	38.67	28.07	11.78	44.36
AUG 30	33.04	39.39	27.83	11.35	44.31
AUG 31	29.16	41.09	27.27	10.35	44.20
SEP 01	38.32	39.24	27.88	11.44	44.32
SEP 02	25.20	40.36	27.51	10.78	44.25
SEP 03	36.26	38.00	28.29	12.17	44.40
SEP 04	31.78	37.83	28.34	12.27	44.41
SEP 05	31.04	36.92	28.64	12.81	44.47
SEP 06	28.93	39.88	27.67	11.06	44.28
SEP 07	27.46	36.83	28.67	12.86	44.48
SEP 08	24.06	38.63	28.08	11.80	44.36
SEP 09	32.57	37.62	28.41	12.40	44.43
SEP 10	32.89	35.63	29.06	13.57	44.56
SEP 11	34.35	33.93	29.62	14.58	44.67
SEP 12	20.20	36.76	28.69	12.90	44.48
SEP 13	22.50	34.17	29.54	14.43	44.65
SEP 14	27.93	37.48	28.46	12.48	44.44
SEP 15	19.59	37.05	28.60	12.73	44.46
SEP 16	27.21	35.40	29.14	13.71	44.57
SEP 17	20.85	33.83	29.65	14.63	44.67
SEP 18	27.16	31.41	30.45	16.06	44.83
SEP 19	25.22	28.68	31.34	17.68	45.01
SEP 20	40.63	30.54	30.73	16.58	44.89
SEP 21	31.24	36.44	28.80	13.09	44.50
SEP 22	34.95	35.90	28.97	13.41	44.54
SEP 23	38.76	32.35	30.14	15.51	44.77
SEP 24	24.69	35.61	29.07	13.58	44.56
SEP 25	12.90	38.77	28.03	11.72	44.35
SEP 26	31.34	37.72	28.38	12.34	44.42
SEP 27	31.57	38.04	28.27	12.15	44.40
SEP 28	34.74	34.68	29.37	14.13	44.62
SEP 29	29.16	33.10	29.89	15.07	44.72
SEP 30	31.58	41.39	27.18	10.17	44.18
OCT 01	27.54	39.48	27.80	11.30	44.31
OCT 02	26.95	35.62	29.07	13.58	44.56
OCT 03	40.15	34.48	29.44	14.25	44.63
OCT 04	18.83	39.59	27.77	11.23	44.30
OCT 05	25.48	44.66	26.10	8.24	43.97
OCT 06	32.41	42.83	26.70	9.32	44.09
OCT 07	36.09	41.36	27.18	10.19	44.18
OCT 08	22.02	40.24	27.55	10.85	44.26
OCT 09	18.80	39.44	27.81	11.32	44.31
OCT 10	29.65	38.33	28.18	11.98	44.38
OCT 11	22.14	40.95	27.32	10.43	44.21
OCT 12	21.72	39.48	27.80	11.30	44.31
OCT 13	27.73	42.81	26.71	9.33	44.09
OCT 14	26.59	38.79	28.03	11.70	44.35
OCT 15	19.28	38.66	28.07	11.78	44.36

1988 TRP OPERATING DATA
AUG 15 - OCT 15 INCL.

INDEP VAR (X): pH
DEP VAR (Y): GOLD EXTRACTION

STD CONCLUSION: GOLD EXTRACTION IS NOT SIGNIFICANTLY
AFFECTED BY pH

Regression Output:

Constant 8.454443
Std Err of Y Est 6.149752
R Squared 0.018539
No. of Observations 62
Degrees of Freedom 60

X Coefficient(s) 1.854130
Std Err of Coef. 1.741630

J.H. Shepherd, Giant Yellowknife Engineering Dept.

Date	Gold Ext	pH	Reg Line	Low Lim	Up Lim						
AUG 15	37.10	10.40	27.74	3.47	52.00	SEP 16	27.21	10.03	27.05	3.43	50.67
AUG 16	37.74	11.00	28.85	3.54	54.16	SEP 17	20.85	10.91	28.68	3.53	53.83
AUG 17	34.30	10.70	28.29	3.51	53.08	SEP 18	27.16	10.97	28.79	3.54	54.05
AUG 18	25.54	10.20	27.37	3.45	51.28	SEP 19	25.22	11.16	29.15	3.56	54.73
AUG 19	17.12	9.53	26.12	3.38	48.87	SEP 20	40.63	11.38	29.55	3.58	55.52
AUG 20	25.60	10.29	27.53	3.46	51.60	SEP 21	31.24	11.50	29.78	3.60	55.96
AUG 21	21.30	10.24	27.44	3.46	51.42	SEP 22	34.95	11.17	29.17	3.56	54.77
AUG 22	34.19	10.22	27.40	3.45	51.35	SEP 23	38.76	11.07	28.98	3.55	54.41
AUG 23	24.80	10.02	27.03	3.43	50.63	SEP 24	24.69	10.99	28.83	3.54	54.12
AUG 24	26.90	9.81	26.64	3.41	49.88	SEP 25	12.90	11.03	28.91	3.55	54.27
AUG 25	30.87	10.36	27.66	3.47	51.86	SEP 26	31.34	11.14	29.11	3.56	54.66
AUG 26	31.37	10.38	27.70	3.47	51.93	SEP 27	31.57	11.04	28.92	3.55	54.30
AUG 27	24.68	10.31	27.57	3.46	51.68	SEP 28	34.74	11.24	29.29	3.57	55.02
AUG 28	24.35	10.30	27.55	3.46	51.64	SEP 29	29.16	11.32	29.44	3.58	55.31
AUG 29	32.88	10.30	27.55	3.46	51.64	SEP 30	31.58	11.21	29.24	3.57	54.91
AUG 30	33.04	10.25	27.46	3.46	51.46	OCT 01	27.54	11.44	29.67	3.59	55.74
AUG 31	29.16	10.50	27.92	3.49	52.36	OCT 02	26.95	11.15	29.13	3.56	54.70
SEP 01	38.32	10.52	27.96	3.49	52.43	OCT 03	40.15	11.02	28.89	3.54	54.23
SEP 02	25.20	10.93	28.72	3.53	53.91	OCT 04	18.83	11.10	29.04	3.55	54.52
SEP 03	36.26	11.02	28.89	3.54	54.23	OCT 05	25.48	11.29	29.39	3.57	55.20
SEP 04	31.78	10.95	28.76	3.54	53.98	OCT 06	32.41	11.15	29.13	3.56	54.70
SEP 05	31.04	11.26	29.33	3.57	55.09	OCT 07	36.09	11.02	28.89	3.54	54.23
SEP 06	28.93	10.71	28.31	3.51	53.11	OCT 08	22.02	11.09	29.02	3.55	54.48
SEP 07	27.46	10.57	28.05	3.49	52.61	OCT 09	18.80	11.10	29.04	3.55	54.52
SEP 08	24.06	10.47	27.87	3.48	52.25	OCT 10	29.65	10.93	28.72	3.53	53.91
SEP 09	32.57	10.60	28.11	3.50	52.72	OCT 11	22.14	11.11	29.05	3.55	54.55
SEP 10	32.89	10.67	28.24	3.51	52.97	OCT 12	21.72	10.59	28.09	3.50	52.68
SEP 11	34.35	10.59	28.09	3.50	52.68	OCT 13	27.73	9.68	26.40	3.39	49.41
SEP 12	20.20	10.67	28.24	3.51	52.97	OCT 14	26.59	11.16	29.15	3.56	54.73
SEP 13	22.50	10.67	28.24	3.51	52.97	OCT 15	19.28	11.21	29.24	3.57	54.91
SEP 14	27.93	10.70	28.29	3.51	53.08						
SEP 15	19.59	10.94	28.74	3.54	53.94						