GENWAL COAL COMPANY
WATER SAMPLING
1993

SAMPLE I.D.	DATE	TABLE TO SAMPLE BY
DH-1 MW-1 MW-2 MW-4 MW-5	Quarterly	
Upper Flume Lower Flume Blind Canyon Flume	Quarterly	
SP-2-9-A SP-19 SP-22 SP-2-24 SP-30 SP-36 SP-47-A SP-58	Quarterly	

TABLE 7-4
ABBREVIATED GROUNDWATER ANALYSIS LIST

Field Measurements:

Water level or flow
pH
Specific conductance (umhos/cm)
Temperature

Laboratory Measurements:

Total dissolved solids
Total hardness (as $CaCO_3$)
Bicarbonate (as HCO_3)
Carbonate (as CO_3)
Calcium (as Ca)
Chloride (as Cl)

Dissolved iron (as Fe)
Magnesium (as Mg)
Manganese (as Mn)
Potassium (as K)
Sodium (as Na)
Sulfate (as SO_4)

TABLE 7-8
ABBREVIATED SURFACE WATER ANALYSIS LIST

Field Measurements:

Flow
pH
Specific conductane (umhos/cm)
Temperature
Dissolved oxygen (ppm)

Laboratory Measurements:

Total dissolved solids
Total suspended solids
Total settleable solids
Total hardness (as $CaCO_3$)
Acidity (as $CaCO^3$)
Bicarbonate (as HCO_3)

Carbonate (as CO_3)
Calcium (as Ca)
Chloride (as Cl)
Dissolved iron (as Fe)
Total iron (as Fe)
Magnesium (as Mg)

Manganese (as Mn)
Potassium (as K)
Sodium (as Na)
Sulfate (as SO_4)
Oil and Grease
Cation - Anion balance

WATER MONITORING REPORT

Property: Genwal
Station: Upper Flume
Location: Flume
Type: Stream
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/03/93	07/01/93	10/25/93	Mean
Flow [gpm]	68.70	1.0'	129.00	147.00	114.90
PH	7.90	8.20	8.10	7.90	8.03
Sp. Cond. [ohms]	440.00	300.00	427.00	440.00	401.75
Temp. [F]	33.50	37.40	49.00	42.80	40.68
Diss. O [ppm]	7.00	2.00	8.00	7.00	6.00
Lab. Meas. [mg/l]					
Acidity	3.00	0.00	0.00	0.00	0.75
Al as HCO3	306.00	244.00	247.00	194.00	247.75
Al as C03	0.00	0.00	0.00	<1	0.00
Al Total	251.00	200.00	203.00	194.00	212.00
Anions meg/l	6.25	4.39	4.57	4.60	4.95
Calcium	56.70	60.30	54.80	56.00	56.95
Cations meg/l	5.12	4.63	5.38	5.30	5.11
Chloride	3.30	3.90	2.30	6.00	3.88
Hard. Total	247.00	225.00	219.00	255.00	236.50
Iron	1.20	0.34	<0.05	<0.20	0.77
Iron, Diss.	0.14	<0.05	<0.05	<0.20	<0.05
Magnesium	25.70	18.00	20.00	28.00	22.93
Manganese	0.00	<0.03	<0.03	<0.10	0.00
Potassium	1.40	0.20	<0.10	<2.0	0.80
Sodium	3.20	3.00	23.10	4.00	8.33
Sol. Tot. Set.	0.00	<0.5	<0.5	<0.50	0.00
Sol. Tot. Diss.	611.00	245.00	231.00	297.00	346.00
Sol. Tot. Sus.	16.00	12.00	9.00	12.00	12.25
Sulfate	60.00	18.00	26.00	28.00	33.00
Cat/An Balance	-8.66	2.61	8.16	6.50	2.15

WATER MONITORING REPORT

Property: Genwal
Station: Lower Flume
Location: Flume
Type: Stream
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/03/93	07/01/93	10/25/93	Mean
Flow [gpm]	234.00	1.125'	290.00	380.00	301.33
PH	7.80	8.10	8.10	7.90	7.98
Sp. Cond. [ohms]	490.00	300.00	540.00	440.00	442.50
Temp. [F]	33.80	53.60	50.00	44.60	45.50
Diss. O [ppm]	7.00	1.20	8.00	7.20	5.85
Lab. Meas. [mg/l]					
Acidity	2.00	0.00	0.00	0.00	0.50
Al as HCO3	311.00	248.00	253.00	281.00	273.25
Al as C03	0.00	0.00	0.00	<1	0.00
Al Total	255.00	204.00	208.00	231.00	224.50
Anions meg/l	10.82	4.51	4.71	6.30	6.59
Calcium	68.80	57.80	57.70	59.00	60.83
Cations meg/l	9.77	4.77	4.88	6.00	6.36
Chloride	164.00	4.90	5.30	28.00	50.55
Hard. Total	287.00	228.00	232.00	279.00	256.50
Iron	0.12	0.28	<0.05	<0.20	0.20
Iron, Diss.	0.00	<0.5	0.05	<0.20	0.03
Magnesium	27.90	20.20	21.30	32.00	25.35
Manganese	0.00	<0.03	<0.03	0.10	0.05
Potassium	0.00	0.60	0.10	<2.0	0.23
Sodium	94.10	4.80	5.70	9.00	28.40
Sol. Tot. Set.	0.00	<0.5	<0.5	<0.5	0.00
Sol. Tot. Diss.	615.00	244.00	249.00	368.00	369.00
Sol. Tot. Sus.	8.00	17.00	10.00	6.00	10.25
Sulfate	60.00	19.00	24.00	50.00	38.25
Oil & Grease	0.40	1.10	1.10	<1	0.87
Cat/An Balance	-4.74	2.84	1.83	-3.00	-0.77

WATER MONITORING REPORT

Property: Genwal
Station: Blind Canyon Flume
Location: Channel Flume
Type: Stream
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/03/93	07/01/93	10/25/93	Mean
Depth [ft.]	F	1.00	<1.00	DRY	1.00
PH		8.40	7.80		8.10
Sp. Cond. [ohms]		300.00	517.00		408.50
Temp. [F]		40.10	50.20		45.15
Diss. O [ppm]		2.50	8.00		5.25
Lab. Meas. [mg/l]					
Al as HCO3		246.00	257.00		251.50
Al as C03		0.00	0.00		0.00
Al Total		202.00	211.00		206.50
Anions meg/l		4.26	4.59		4.43
Calcium		52.50	49.20		50.85
Cations meg/l		4.29	5.15		4.72
Chloride		3.10	3.60		3.35
Hard. Total		211.00	212.00		211.50
Iron		0.53	1.35		0.94
Iron Diss.		0.06	0.06		0.06
Magnesium		19.30	21.60		20.45
Manganese		<0.03	<0.03		0.00
Potassium		<0.10	<0.10		0.00
Sodium		1.80	21.20		11.50
Sol. Tot. Set.		<0.5	<0.5		0.00
Sol. Tot. Diss.		234.00	245.00		239.50
Sol. Tot. Sus.		15.00	22.00		18.50
Sulfate		11.00	18.00		14.50
Oil & Grease		1.30	1.60		1.45

WATER MONITORING REPORT

Property: Genwal
Station: DH-1
Location: New Well Underground
Type: Well
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/15/93	09/16/93	12/07/93	Mean
Depth [fs]	DRY	DRY	DRY	Dry	
PH					
Sp. Cond. [ohms]					
Temp. [F]					
Diss. O [ppm]					
Lab. Meas. [mg/l]					
Al as HCO3					
Al as CO2					
Al Total					
Anions meg/l					
Calcium					
Cations meg/l					
Chloride					
Hard. Total					
Iron					
Magnesium					
Manganese					
Potassium					
Sodium					
Sol. Tot. Diss.					
Sol. Tot. Sus.					
Sulfate					
Iron, Diss.					
Cat/An Balance					

WATER MONITORING REPORT

Property: Genwal
Station: MW-1
Location: New Well Underground
Type: Well
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/15/93	09/16/93	12/07/93	Mean
Depth [fs]		1.1 gpm	6 gpm	1.8 gpm	2.96
PH	7.48	7.33	7.91	6.71	7.36
Sp. Cond. [ohms]	532.00	561.00	568.00	528.00	547.25
Temp. [F]	55.00	58.30	52.40	54.40	55.03
Diss. O [ppm]		11.60	9.20	10.60	10.47

Lab. Meas. [mg/l]					
Al as HCO3	285.00	284.00	283.00	233.00	271.25
Al as C03	0.00	0.00	0.00	<1	0.00
Al Total	234.00	233.00	232.00	233.00	233.00
Anions meg/l	5.01	5.70	5.70	5.90	5.58
Calcium	18.90	20.20	19.60	19.00	19.43
Cations meg/l	5.29	5.23	6.43	5.30	5.56
Chloride	0.10	26.30	28.90	31.00	21.58
Hard. Total	107.00	112.00	123.10	113.00	113.78
Iron			0.16	0.02	0.09
Iron, Diss.	6.80	0.05	<0.05	<0.02	3.43
Magnesium	14.50	14.90	18.00	16.00	15.85
Manganese	0.47	<0.03	<0.03	<0.10	0.47
Potassium	3.40	2.40	4.00	9.00	4.70
Sodium	71.40	68.30	90.00	70.00	74.93
Sol. Tot. Diss.	0.00	333.00	333.00	353.00	254.75
Sulfate	21.00	20.00	17.00	20.00	19.50
Cat/An Balance	2.82	-4.30	6.06	-5.10	-0.13

WATER MONITORING REPORT

Property: Genwal
Station: MW-2
Location: New Well Underground
Type: Well
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/15/93	09/16/93	12/07/93	Mean
Depth [fs]	53.50	53.90	52.8	52.40	53.27
PH	7.40	7.38	7.37	7.24	7.35
Sp. Cond. [ohms]	768.00	748.00	754.00	672.00	735.50
Temp. [F]	53.00	53.90	51.80	52.50	52.80
Diss. O [ppm]		12.80	7.90	10.90	10.53
Lab. Meas. [mg/l]					
Al as HCO3	434.00	423.00	446.00	355.00	414.50
Al as C03	0.00	0.00	0.00	<1	0.00
Al Total	356.00	347.00	366.00	355.00	356.00
Anions meg/l	8.41	7.57	7.50	7.90	7.85
Calcium	84.60	67.20	76.30	77.00	76.28
Cations meg/l	8.55	7.09	8.89	8.20	8.18
Chloride	0.10	4.80	4.80	5.00	3.68
Hard. Total	395.00	323.00	256.40	378.00	338.10
Iron	41.00		3.30	2.80	15.70
Iron, Diss.	37.00	0.08	<0.05	<0.02	18.54
Magnesium	44.60	37.60	16.00	45.00	35.80
Manganese	0.04	<0.03	<0.03	<0.10	0.04
Potassium	4.20	4.60	4.00	6.00	4.70
Sodium	12.90	12.30	85.00	14.00	31.05
Sol. Tot. Diss.	461.00	402.00	402.00	428.00	423.25
Sol. Tot. Sus.	200.00				200.00
Sulfate	70.00	32.00	11.00	30.00	35.75
Cat/An Balance	0.80	-3.29	8.45	1.80	1.94

WATER MONITORING REPORT

Property: Genwal
Station: MW-4
Location: New Well Underground
Type: Well
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/15/93	09/16/93	12/07/93	Mean
Depth [fs]	DRY	DRY	DRY	DRY	DRY
PH					
Sp. Cond. [ohms]					
Temp. [F]					
Diss. O [ppm]					
Lab. Meas. [mg/l]					
Al as HCO3					
Al as C03					
Al Total					
Anions meg/l					
Calcium					
Cations meg/l					
Chloride					
Hard. Total					
Iron					
Magnesium					
Manganese					
Potassium					
Sodium					
Sol. Tot. Diss.					
Sol. Tot. Sus.					
Sulfate					
Iron, Diss.					
Cat/An Balance					

WATER MONITORING REPORT

Property: Genwal
Station: MW-5
Location: New Well Underground
Type: Well
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/15/93	09/16/93	12/07/93	Mean
Depth [fs]	DRY	SEE	109.00	108.80	108.90
PH		FIELD	7.51	7.15	7.33
Sp. Cond. [ohms]		NOTES	103.00	953.00	528.00
Temp. [F]			54.50	53.80	54.15
Diss. O [ppm]			10.10	9.90	10.00
Lab. Meas. [mg/l]					
Al as HCO3			411.00	320.00	365.50
Al as CO2			0.00	<1	0.00
Al Total			337.00	320.00	328.50
Anions meg/l			12.16	11.80	11.98
Calcium		850.00	157.00	51.00	352.67
Cations meg/l			15.81	12.80	14.31
Chloride		3.30	12.10	8.00	7.80
Hard. Total		3,588.00	762.70	2,501.00	2,283.90
Iron		26.60	0.97	8.00	11.86
Magnesium		356.00	90.00	120.00	188.67
Manganese		0.91	0.14	0.30	0.45
Potassium		9.70	8.00	11.00	9.57
Sodium		18.20	8.70	8.00	11.63
Sol. Tot. Diss.		1,352.00	759.00	650.00	920.33
Sol. Tot. Sus.					
Sulfate			250.00	250.00	250.00
Iron, Diss.			0.31	<0.20	0.31
Cat/An Balance			13.04	3.80	8.42

WATER MONITORING REPORT

Property: Genwal
Station: SP-29A
Location: Trough
Type: Spring
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/03/93	07/01/93	10/25/93	Mean
Flow [gpm]	INACC	8.00	4.70	7.80	6.35
PH		9.50	7.90	7.80	8.70
Sp. Cond. [ohms]		200.00	380.00	210.00	290.00
Temp. [F]		37.40	48.20	41.00	42.80
Diss. O [ppm]		1.10	N/A	6.20	7.00
Lab. Meas. [mg/l]					
Al as HCO3		162.00	152.00	167.00	157.00
Al as C03		0.00	0.00	<1	0.00
Al Total		133.00	125.00	137.00	129.00
Anions meg/l		3.15	2.58	2.90	2.87
Calcium		40.70	47.10	44.00	43.90
Cations meg/l		2.72	3.04	3.00	2.88
Chloride		1.70	1.20	2.00	1.45
Hard. Total		132.00	149.00	147.00	140.50
Iron		0.38	<0.05	<0.20	0.38
Iron, Diss.		0.06	0.11	<0.20	0.09
Magnesium		7.30	7.60	9.00	7.45
Manganese		<0.03	<0.03	<0.10	0.00
Potassium		0.20	<0.10	<2.0	0.20
Sodium		2.00	1.41	1.00	1.71
So. Tot. Diss.		136.00	157.00	186.00	146.50
Sulfate		24.00	5.00	7.00	14.50
Cat/An Balance		-7.12	8.33	1.80	0.61

WATER MONITORING REPORT

Property: Genwal
Station: SP-2-24
Location: Trough
Type: Spring
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/03/93	07/01/93	10/25/93	Mean
Flow [gpm]	INACC	8.00	7.80	1.50	5.77
PH		8.00	7.80	7.80	7.87
Sp. Cond. [ohms]		200.00	200.00	290.00	230.00
Temp. [F]		35.60	53.60	42.80	44.00
Diss. O [ppm]		1.10	N/T	5.20	3.15
Lab. Meas. [mg/l]					
Al as HCO3		272.00	158.00	179.00	203.00
Al as C03		0.00	0.00	<1	0.00
Al Total		223.00	130.00	147.00	166.67
Anions meg/l		4.52	2.72	3.20	3.48
Calcium		37.90	41.10	48.00	42.33
Cations meg/l		9.06	3.10	3.80	5.32
Chloride		3.10	3.60	7.00	4.57
Hard. Total		449.00	143.00	182.00	258.00
Iron		0.29	<0.05	<0.20	0.29
Iron Diss.		<0.05	0.17	<0.20	0.17
Magnesium		86.00	9.90	15.00	36.97
Manganese		<0.03	<0.03	<0.10	0.00
Potassium		3.70	6.70	3.00	4.47
Sodium		0.30	1.40	1.00	0.90
So. Tot. Diss.		184.00	186.00	219.00	196.33
Sulfate		4.00	4.00	5.00	4.33
Cat/An		0.00	6.71	8.50	5.07

WATER MONITORING REPORT

Property: Genwal
Station: SP-30
Location: Mine Discharge
Type: Spring
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/23/93	07/01/93	10/25/93	Mean
Flow [gpm]	INACC	DRY	DRY	DRY	DRY
PH					
Sp. Cond. [ohms]					
Temp. [F]					
Diss. O [ppm]					
Lab. Meas. [mg/l]					
Al as HCO3					
Al as CO2					
Al Total					
Anions meg/l					
Calcium					
Cations meg/l					
Chloride					
Hard. Total					
Iron Diss.					
Magnesium					
Manganese					
Potassium					
Sodium					
So. Tot. Diss.					
Sulfate					

WATER MONITORING REPORT

Property: Genwal
Station: SP-36
Location: In Channel
Type: Spring
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/23/93	07/01/93	10/25/93	Mean
Flow [gpm]	INACC	DRY	DRY	DRY	DRY
PH					
Sp. Cond. [ohms]					
Temp. [F]					
Diss. O [ppm]					
Lab. Meas. [mg/l]					
Al as HCO3					
Al as CO2					
Al Total					
Anions meg/l					
Calcium					
Cations meg/l					
Chloride					
Hard. Total					
Iron Diss.					
Magnesium					
Manganese					
Potassium					
Sodium					
So. Tot. Diss.					
Sulfate					

WATER MONITORING REPORT

Property: Genwal
Station: SP-47A
Location: Broken Trough
Type: Spring
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/04/93	07/01/93	10/25/93	Mean
Flow [gpm]	INACC	<1	1.20	1.20	1.20
PH		8.00	7.90	7.90	7.93
Sp. Cond. [ohms]		475.00	140.00	310.00	308.33
Temp. [F]		46.50	50.00	39.20	45.23
Diss. O [ppm]		17.10	N/A	7.00	12.05
Lab. Meas. [mg/l]					
Al as HCO3		219.00	241.00	154.00	204.67
Al as C03		0.00	0.00	<1	0.00
Al Total		180.00	198.00	154.00	177.33
Anions meg/l		4.30	4.59	3.80	4.23
Calcium		49.00	47.00	46.00	47.33
Cations meg/l		4.04	3.78	3.90	3.91
Chloride		25.90	5.70	9.00	13.53
Hard. Total		192.00	178.00	185.00	185.00
Iron		0.28	0.14	1.20	0.54
Iron Diss.		0.08	0.06	0.20	0.11
Magnesium		16.80	14.70	17.00	16.17
Manganese		<0.03	<0.03	<0.10	0.00
Potassium		1.10	<0.10	<2.0	1.10
Sodium		4.30	5.20	3.00	4.17
So. Tot. Diss.		302.00	216.00	236.00	251.33
Sulfate		3.00	27.00	22.00	17.33
Cat/An Balance		-3.00	-9.60	1.60	-3.67

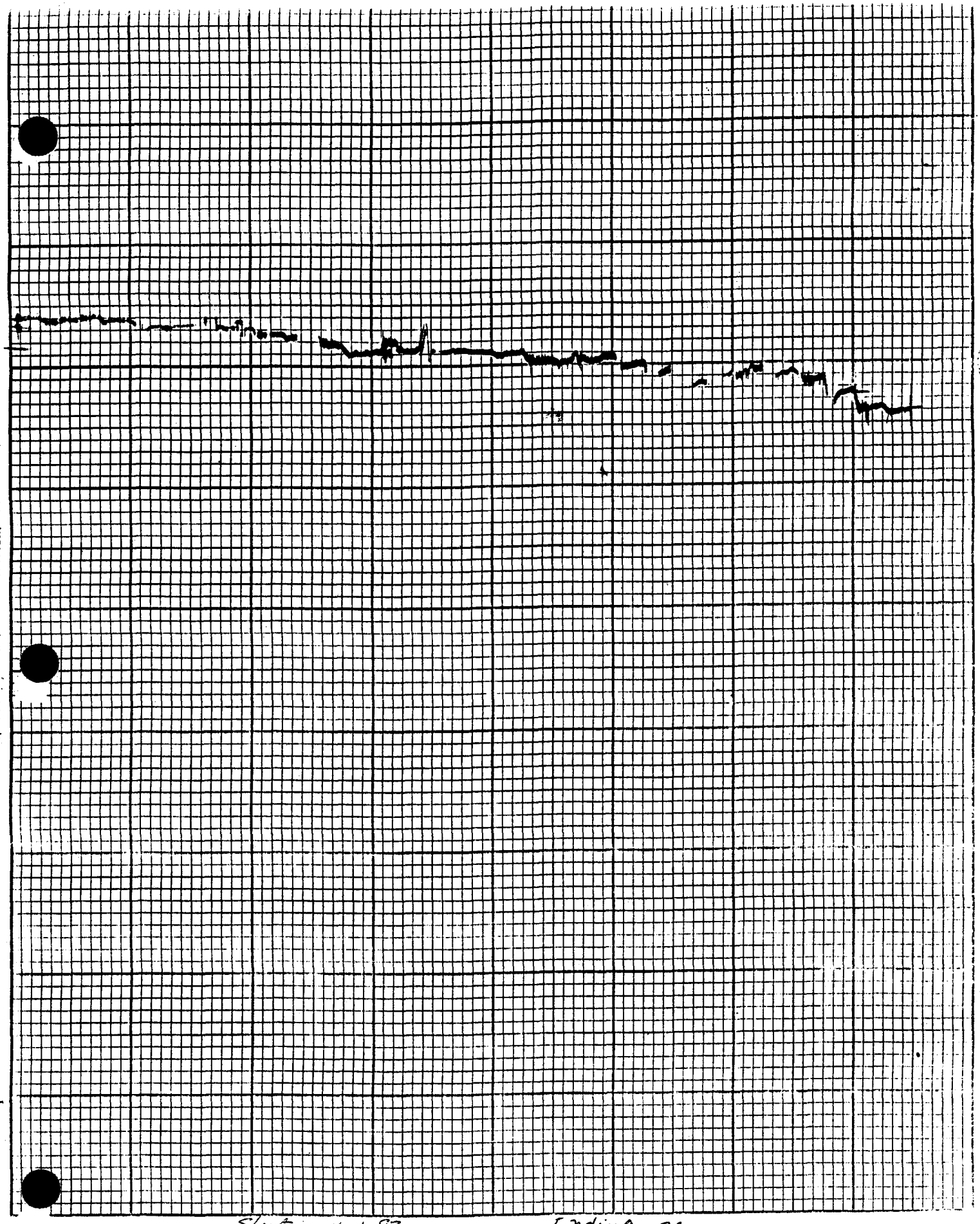
WATER MONITORING REPORT

Property: Genwal
Station: SP-58
Location: In Channel
Type: Spring
Frequency: Quarterly

Field Measurements	Date Sampled 03/04/93	06/03/93	07/01/93	10/25/93	Mean
Flow [gpm]	INACC	1,100.00	62.00	87.00	416.33
PH		8.50	8.00	7.90	8.13
Sp. Cond. [ohms]		300.00	340.00	410.00	350.00
Temp. [F]		37.40	48.20	42.80	42.80
Diss. O [ppm]		2.40	8.00	7.00	5.80
Lab. Meas. [mg/l]					
Al as HCO3		272.00	242.00	265.00	259.67
Al as C03		0.00	0.00	<1	0.00
Al Total		223.00	199.00	218.00	213.33
Anions meg/l		4.76	4.41	4.90	4.69
Calcium		65.40	56.50	55.00	58.97
Cations meg/l		4.95	4.24	5.50	4.90
Chloride		2.70	3.00	5.00	3.57
Hard. Total		240.00	204.00	269.00	237.67
Iron		0.31	0.05	<0.20	0.18
Iron Diss.		<0.05	0.05	<0.20	0.05
Magnesium		18.60	15.20	32.00	21.93
Manganese		<0.03	0.03	0.20	0.12
Potassium		0.10	1.00	<2.0	0.55
Sodium		3.60	3.30	3.00	3.30
So. Tot. Diss.		240.00	237.00	260.00	245.67
Sulfate		16.00	21.00	26.00	21.00
Cat/An		1.95	-1.83	5.50	1.87

FLUME CHARTS
1ST QUARTER
1993

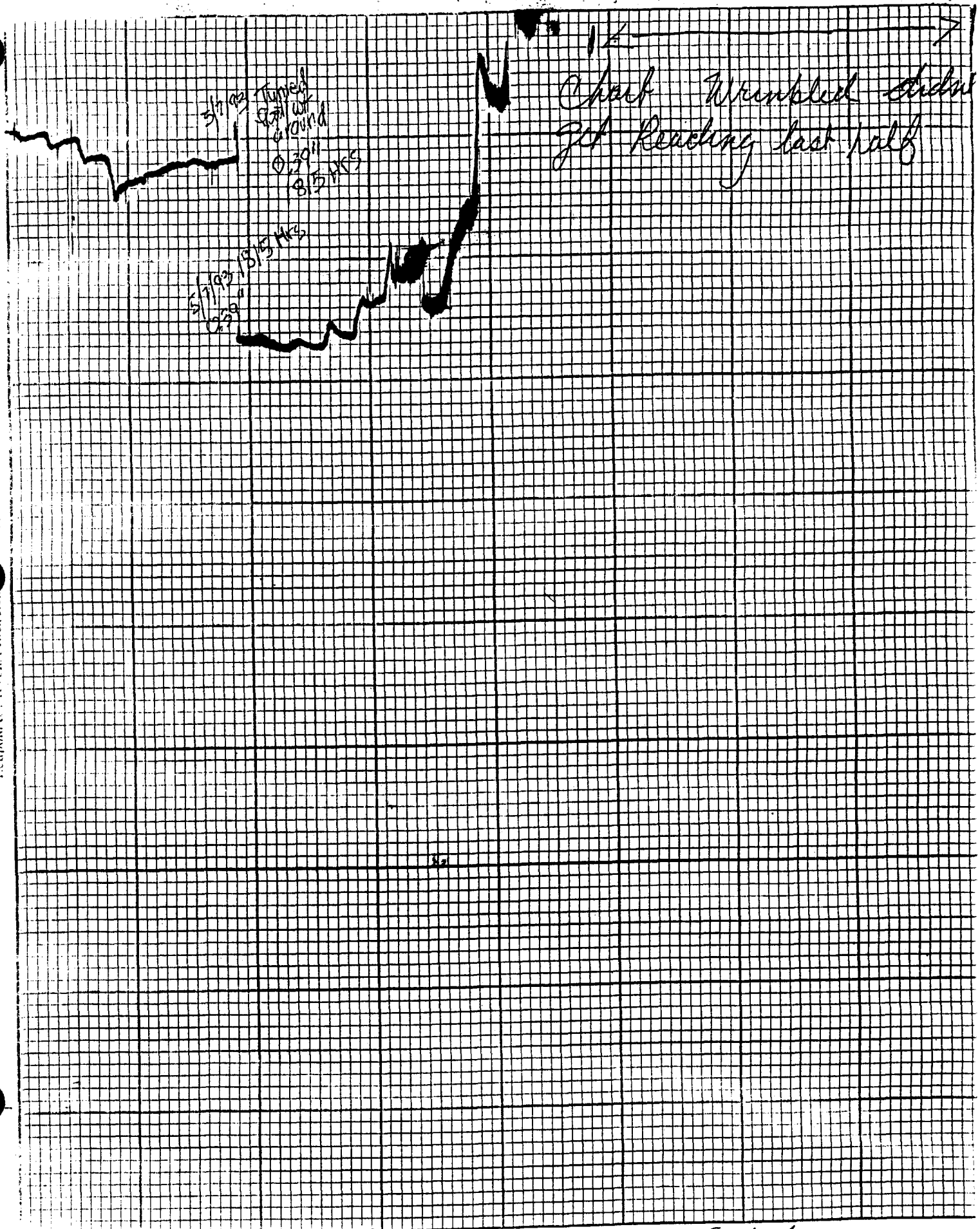
Charts from the flume recorders for the upper and lower flumes, and the Blind Canyon Flume are not available due to winter conditions and cold temperatures.



per Flume

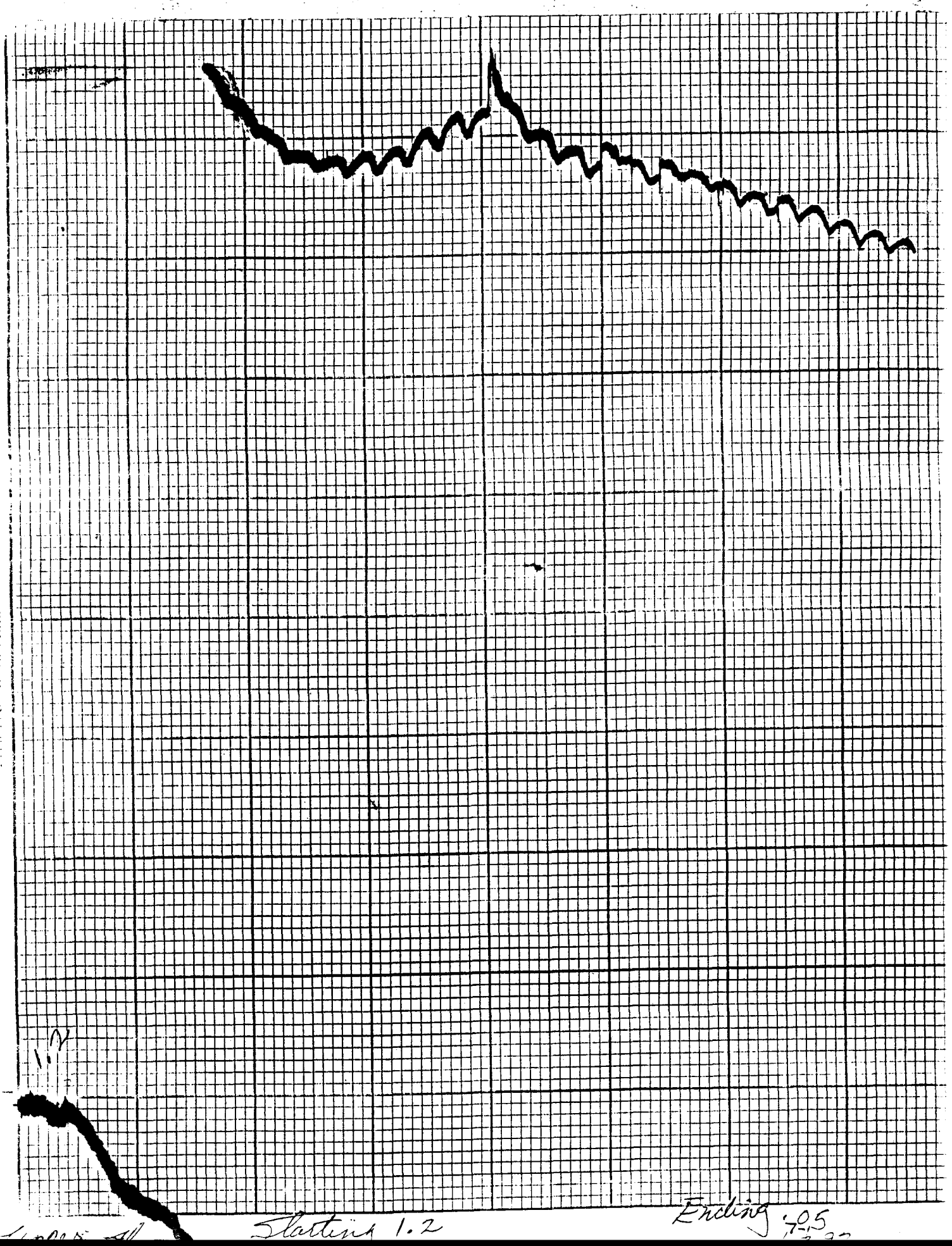
Starting 4-1-93
Reading .28

Ending .36
Reading 4-30-93



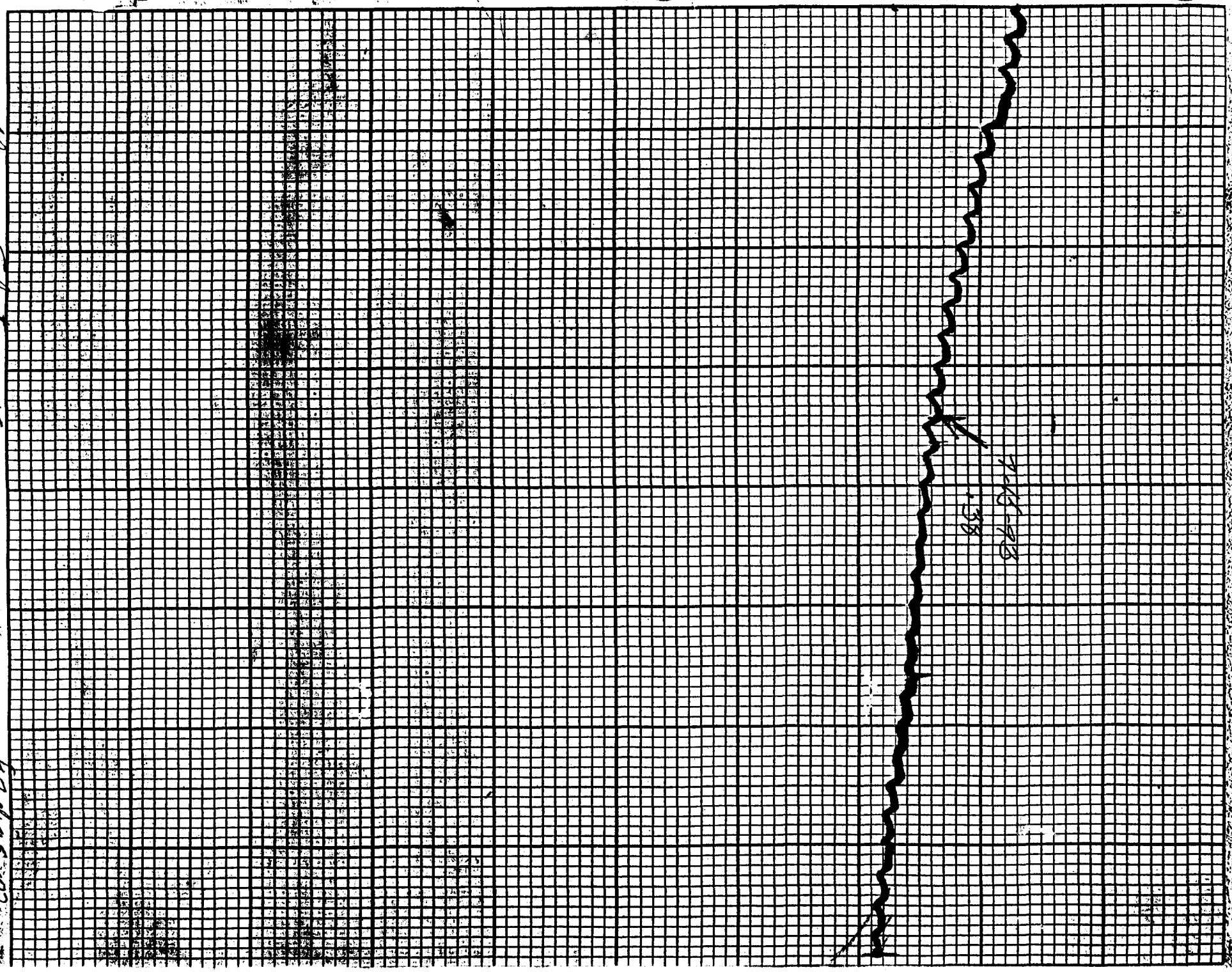
Starting .36

Ending 1.2


1.2
Starting 1.2
Ending .05

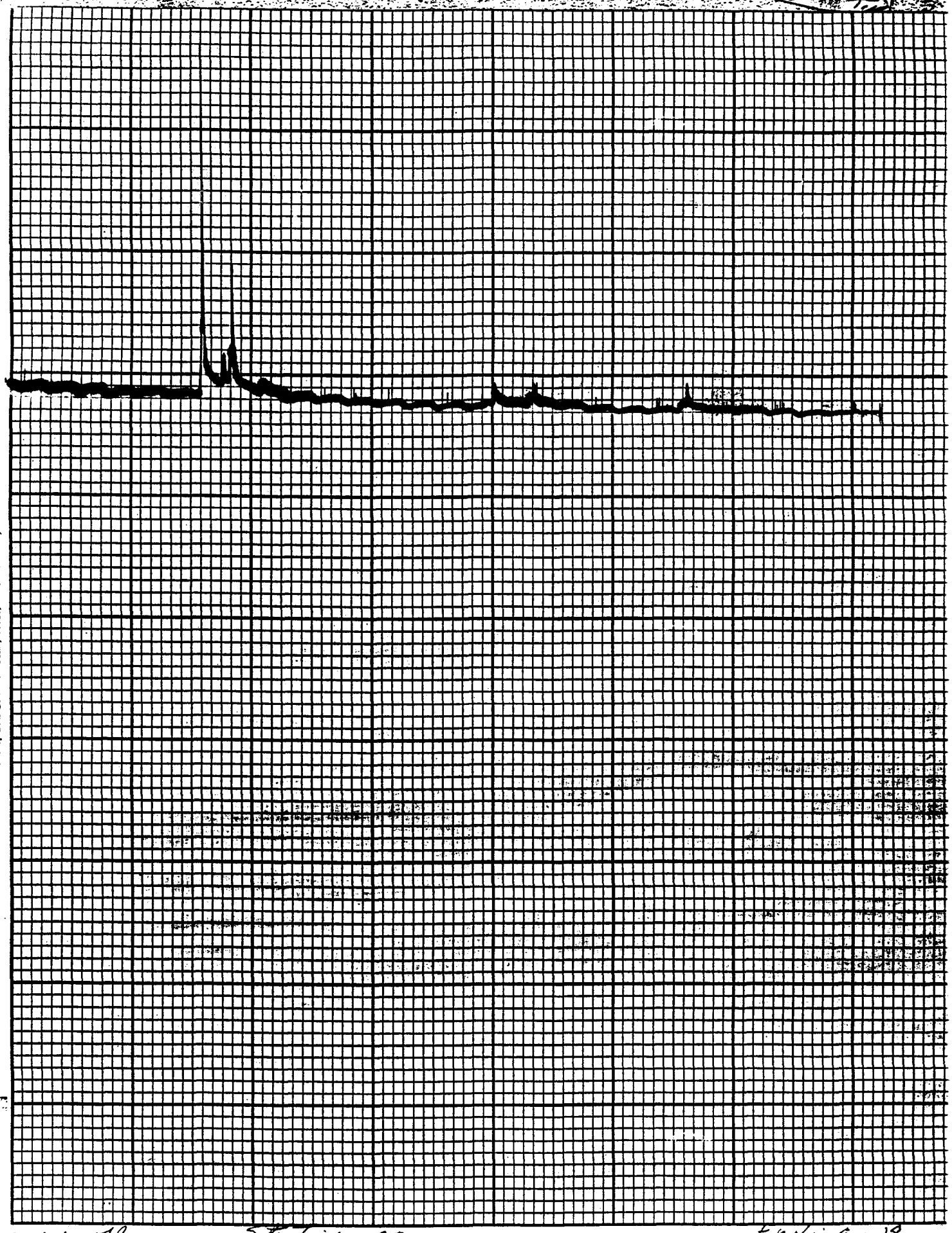
Leupold & Stevens, Inc. Portland, Ore.

Printed in U.S.A.



Lower Flume Starting 7-1-93 '05 Ending

8-3-93



Printed in U.S.A.

Leupold & Stevens, Inc., Beaverton, Ore.

Upper Flume Starting .00 Ending .18

7-1-93 '05

upper Flume Starting '20
8-3-93

8-3-93

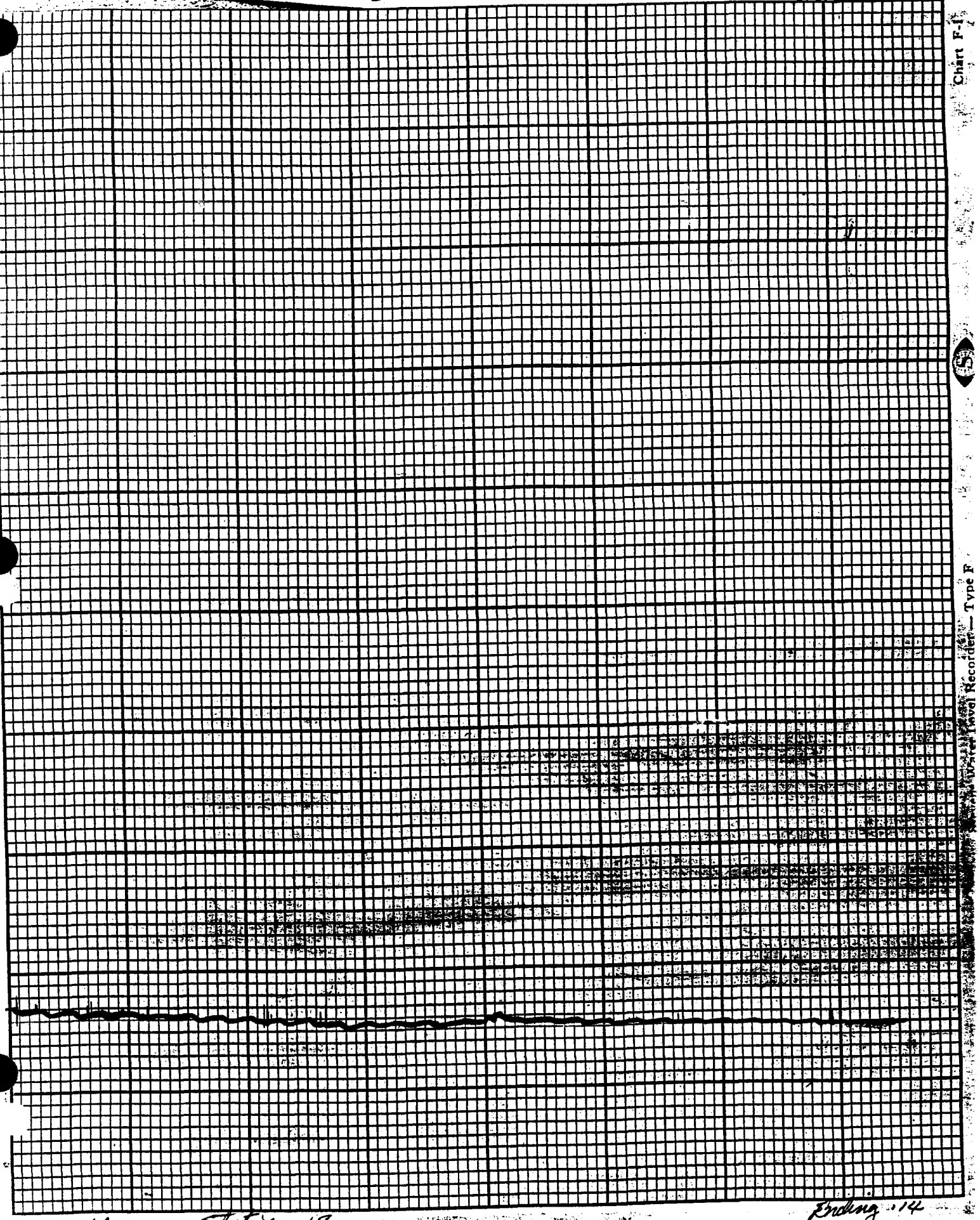


Chart F-1

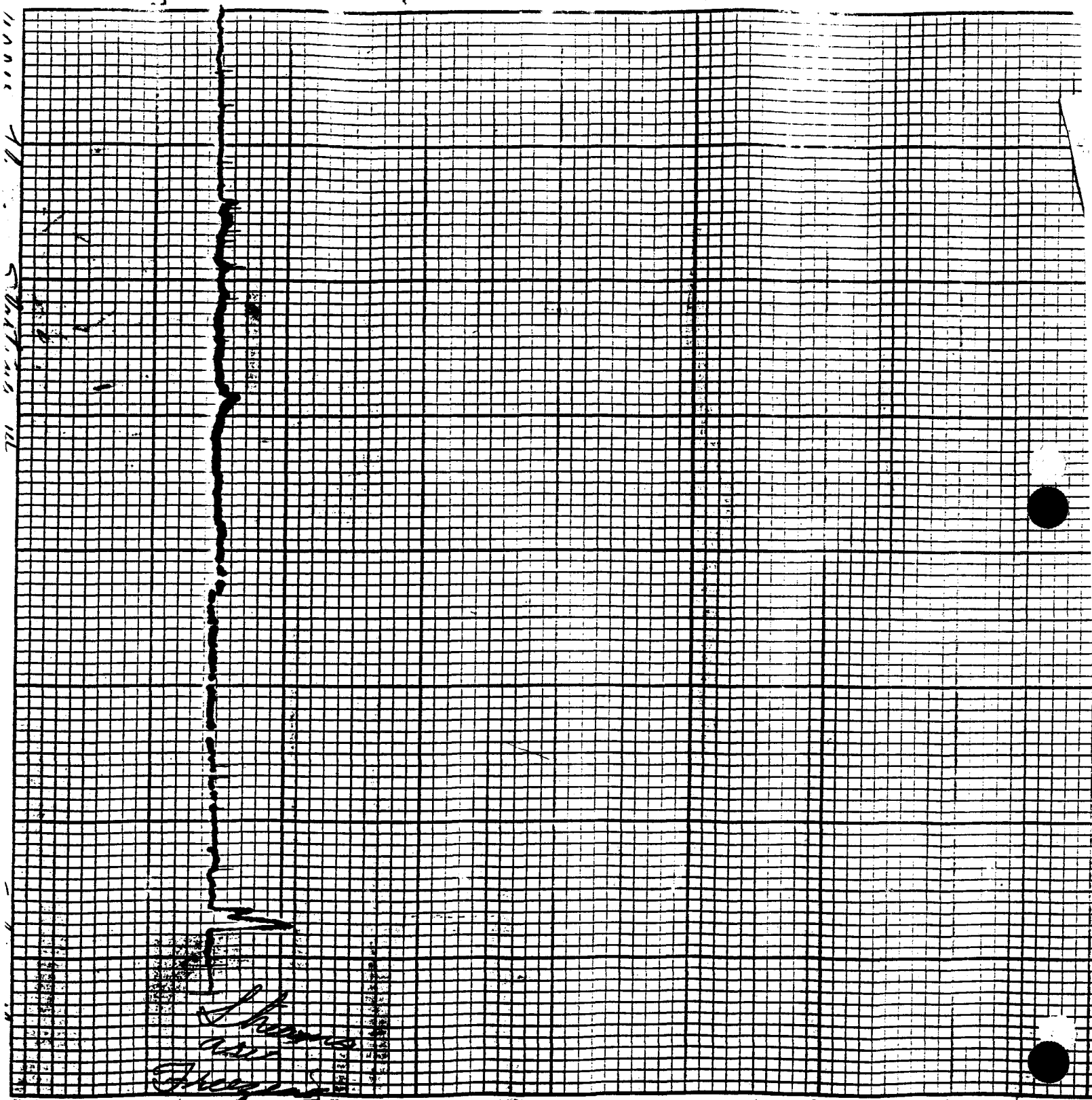
Leupold & Stevens, Inc., Beaverton, Ore.

Water Level Recorder — Type F

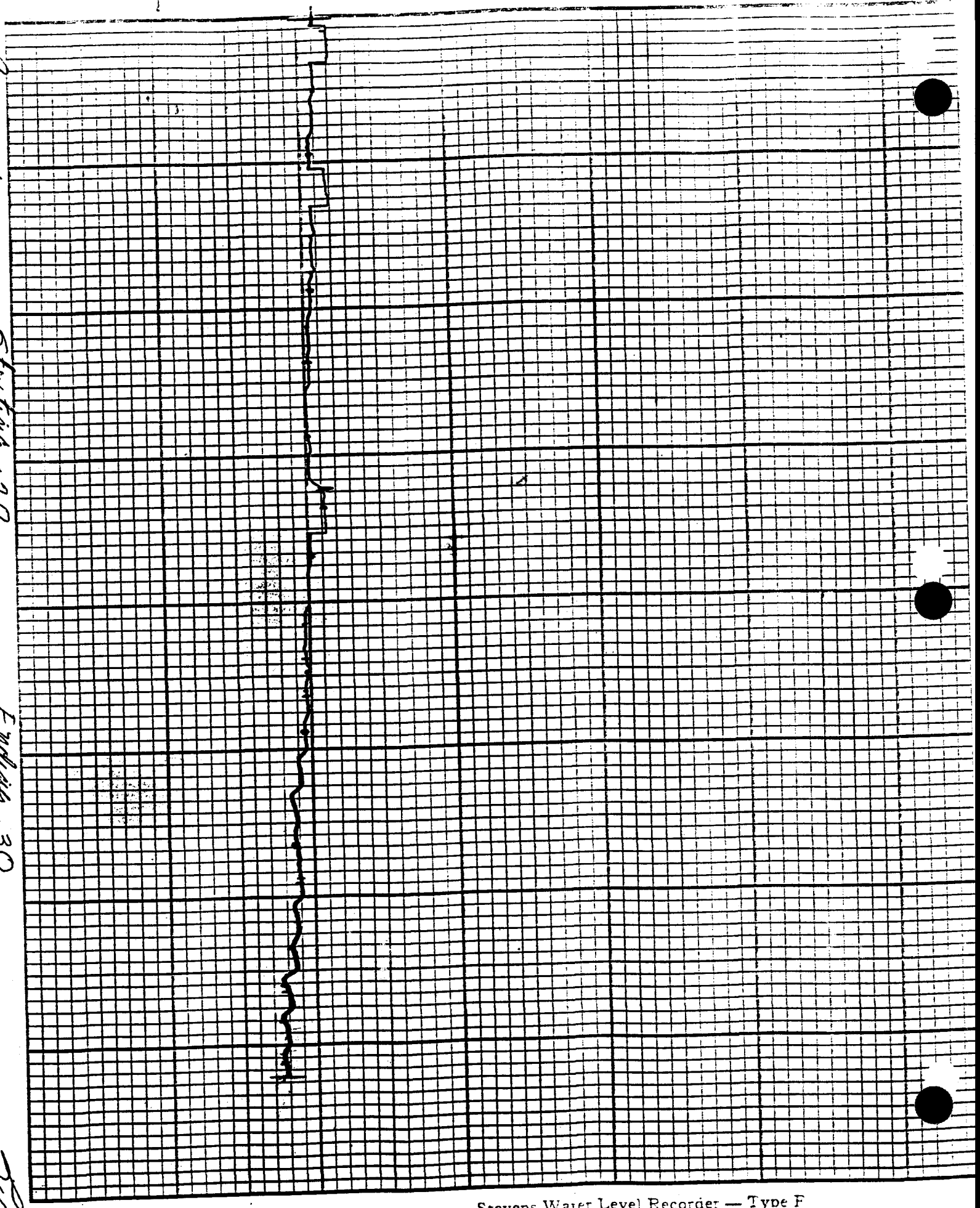
Printed in U.S.A.

Starting '18

Ending '14



Stevens Water Level Recorder — Type F

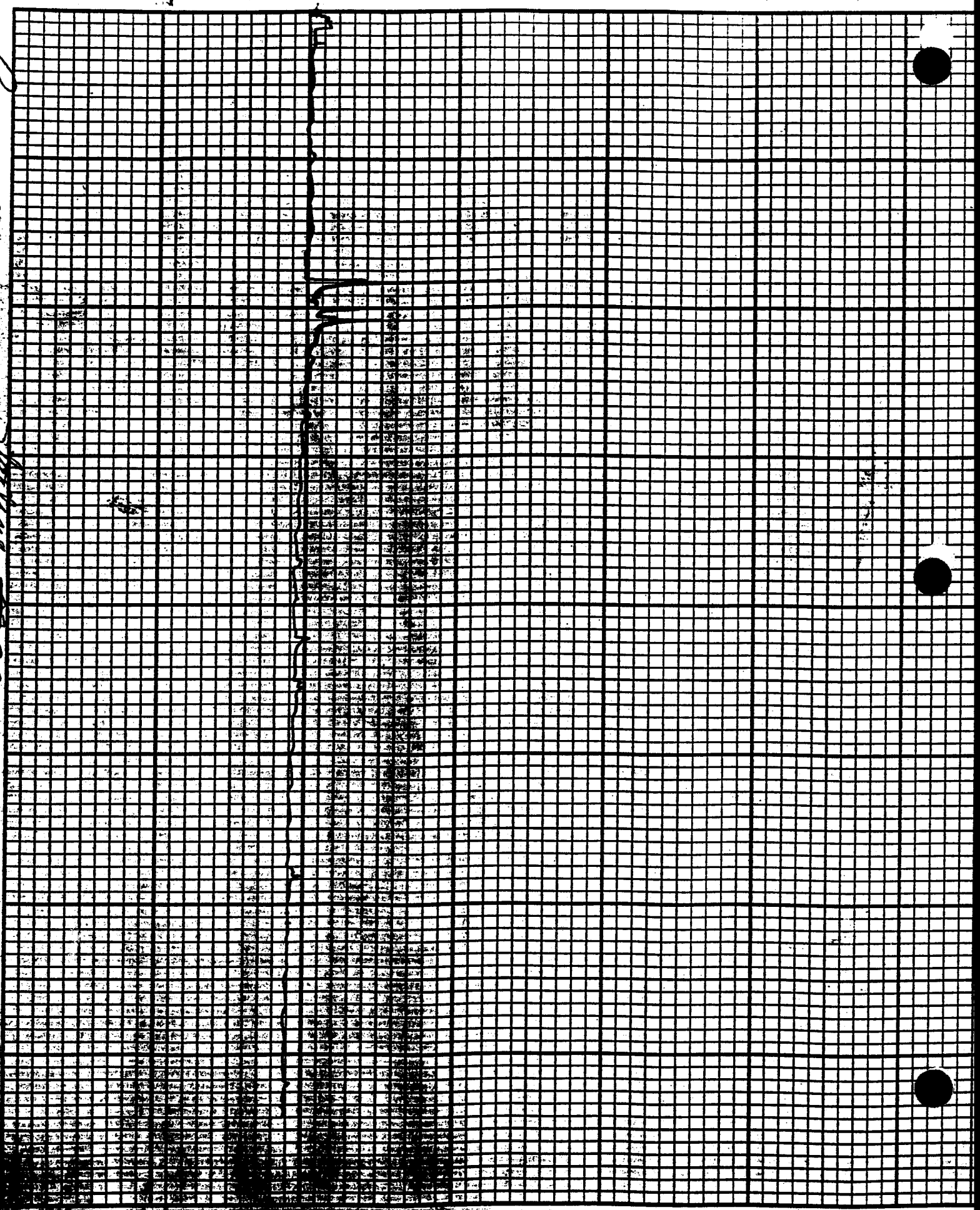


Stevens Water Level Recorder — Type F

Stevens Water Level Recorder — Type F
Starting .30
Ending 1.2
1.02

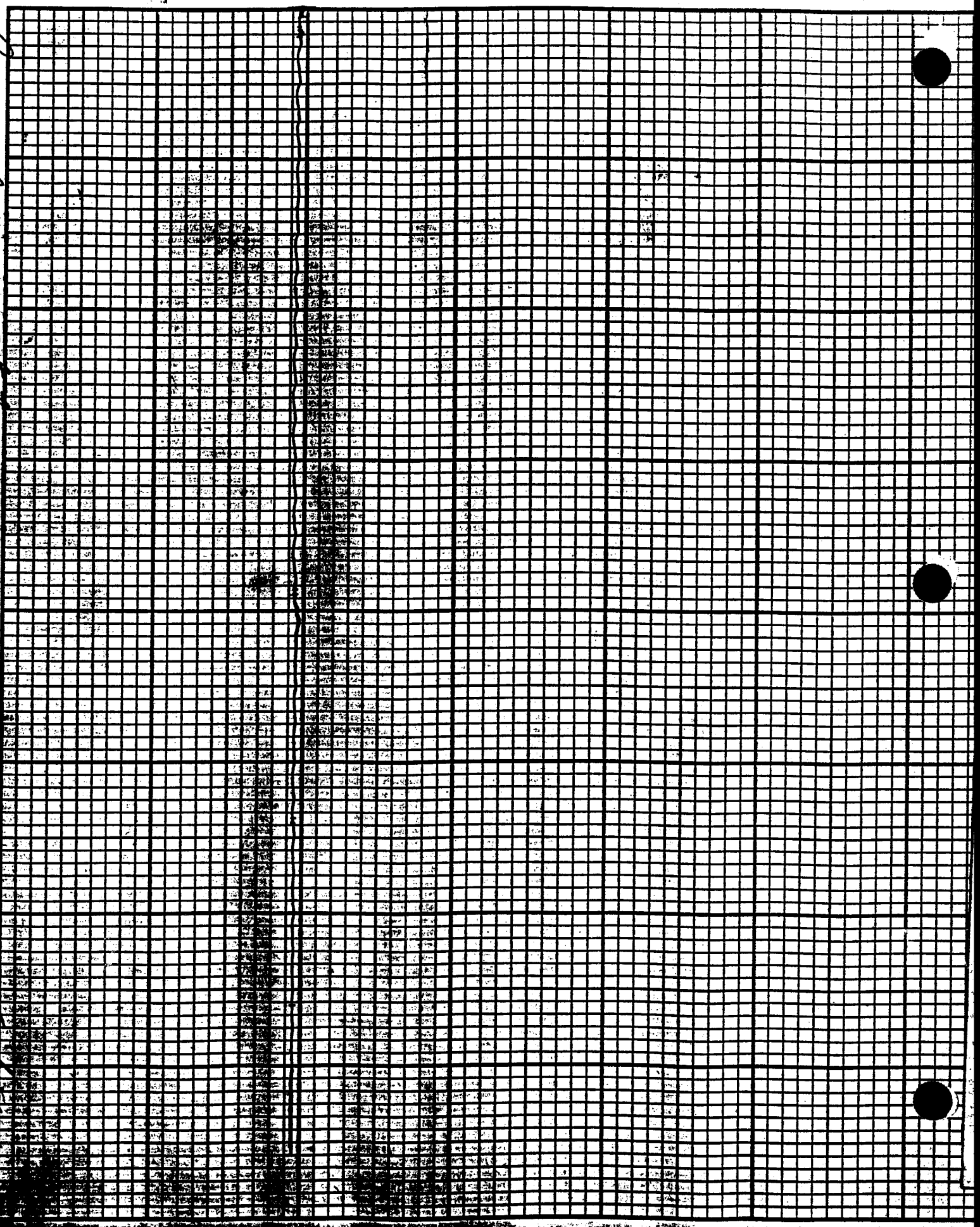
Lower Flume Starting 1.2 Ending .05 7-1-93

Leupold & Stevens, Inc., Beaverton, Ore.



Stevens Water Level Recorder — Type F

Leupold & Stevens, Inc., Beaverton, Ore.



Lower Flume Starting 1/6 9:02

Ending 1/10

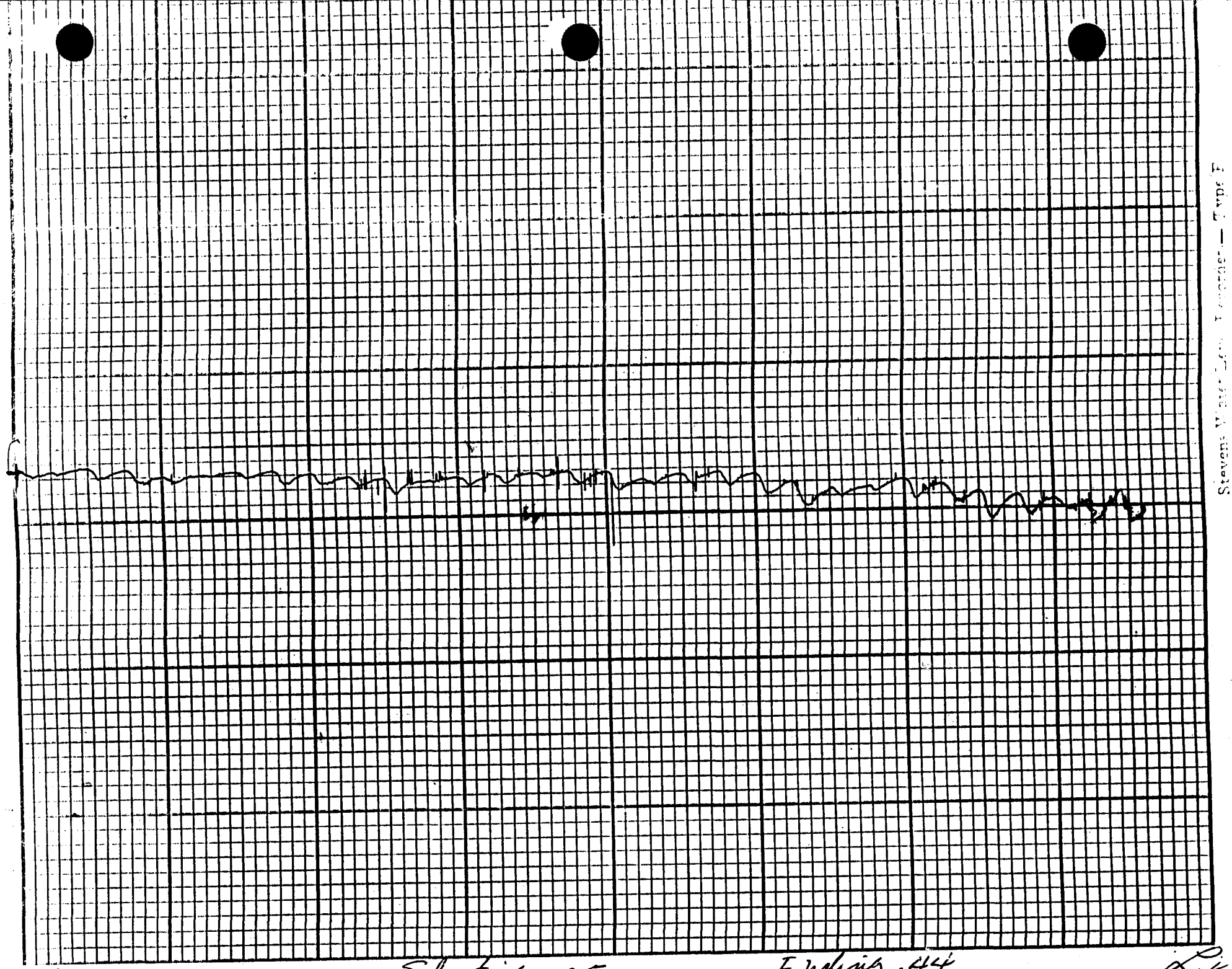
...vens Water Level Recorder — Type F

Stevens Water Level Recorder — Type F

Lower Flume

Starting .10
10-1-93

Ending .8
10-31-93



Leupold & Stevens Inc. Beaverton, Ore.

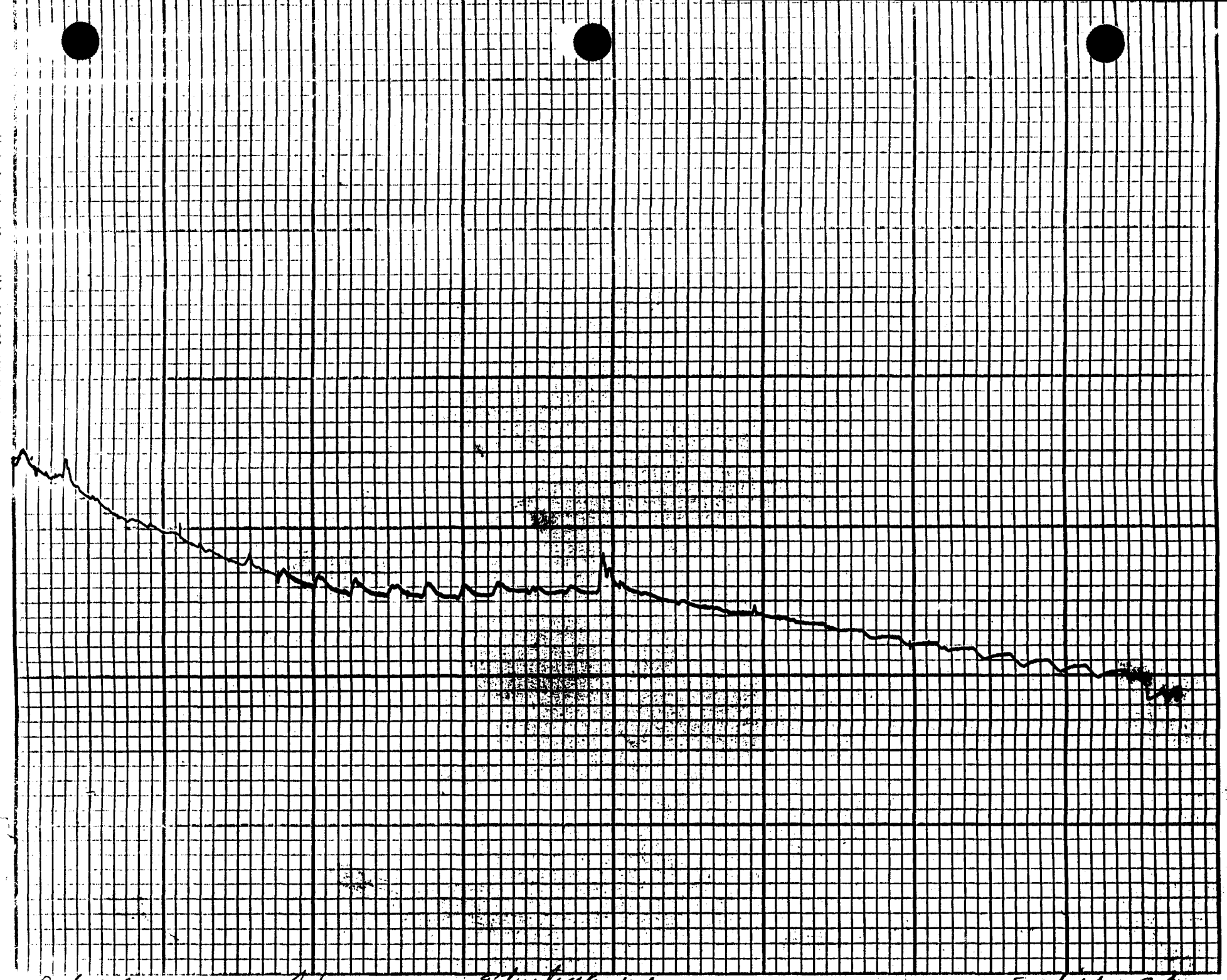
Stevens Water Level Recorder — Type F

Starting .25

Ending .44
4-30-93

L. Kilz

Stevens Water Level Recorder — Type F



Blind Canyon Flame

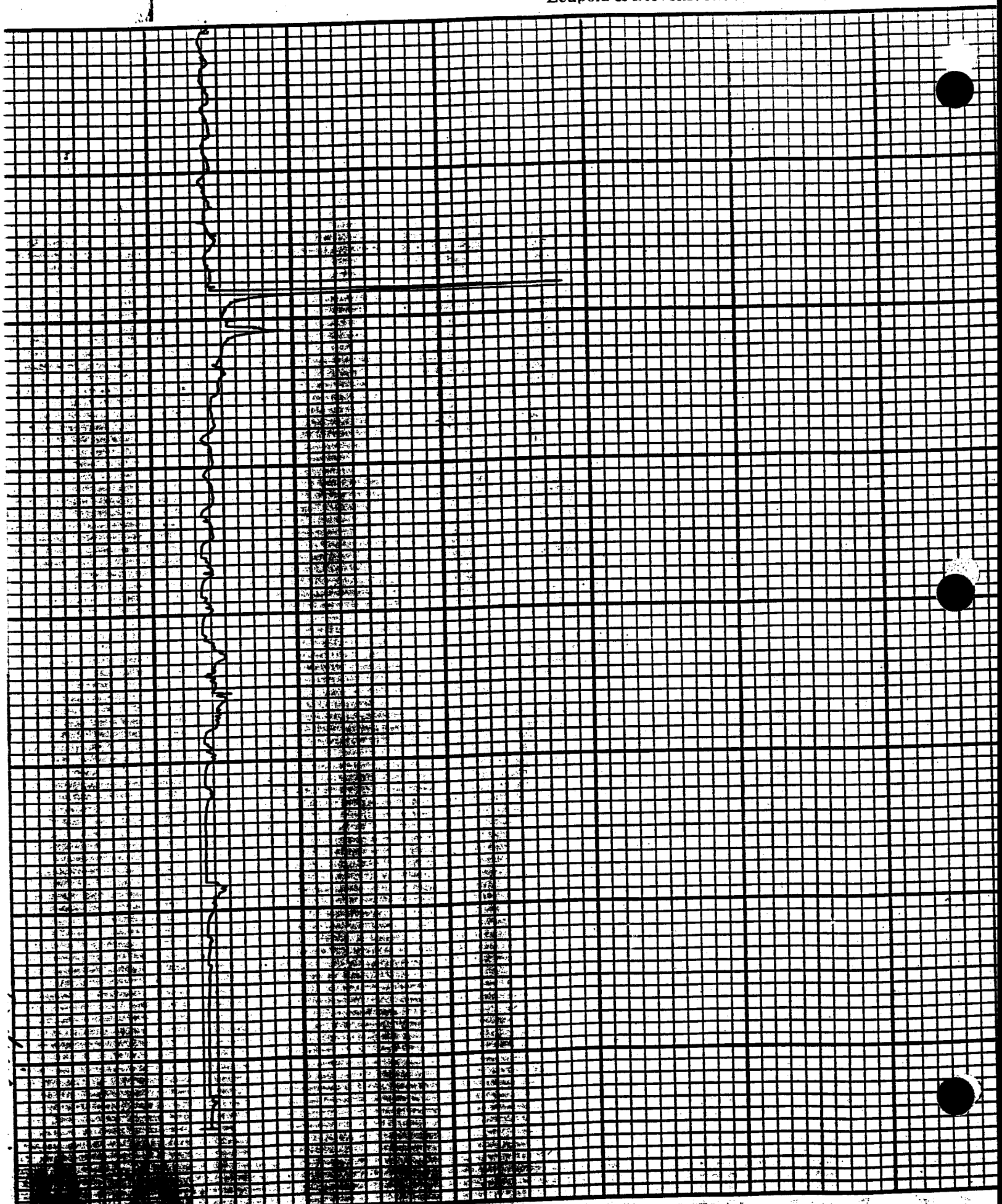
Starting 1.1

Ending .30

Leupold & Stevens, Inc., Beaverton, Ore.

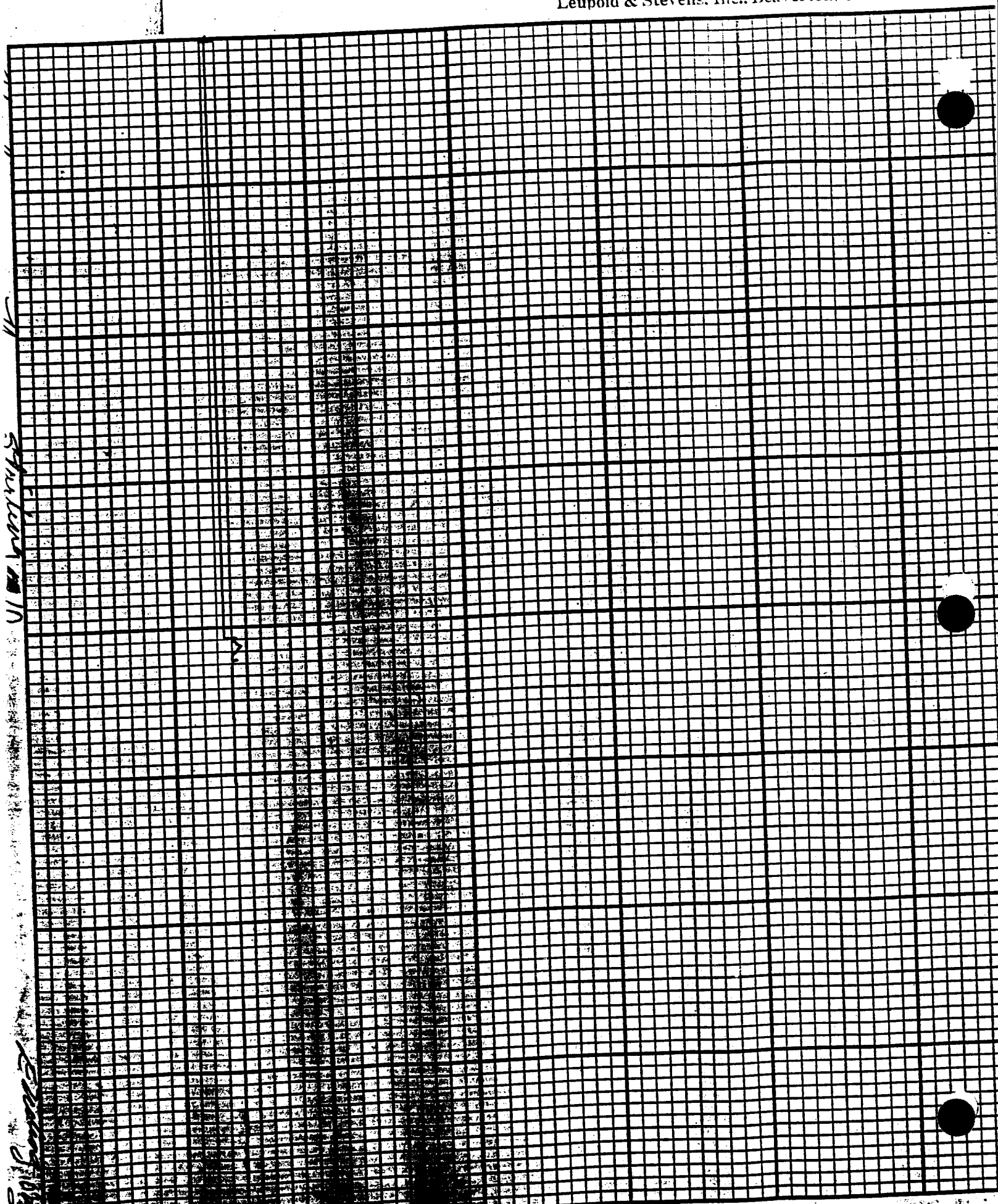
Water Level Recorder — Type F

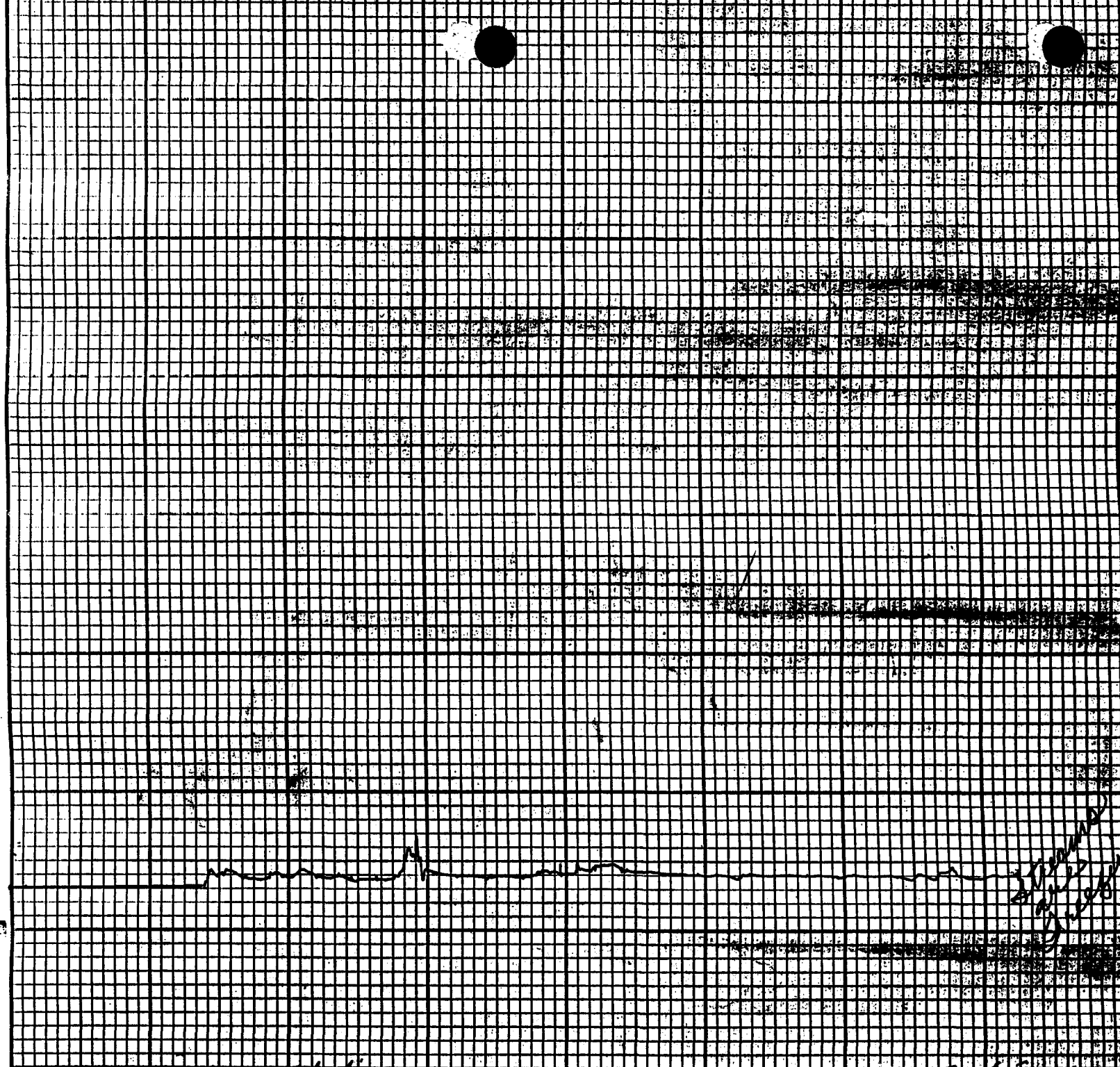
Blind Canyon Flume Starting Ending 011



Stevens Water Level Recorder — Type F

Leupold & Stevens, Inc., Beaverton, Ore.





Leupold & Stevens, Inc., Beaverton, Ore.

Water Level Recorder — Type

Blind Canyon Flume Starting .02
10-1-93

Ending .02
10-29-93

November 1, 1993

Due to freezing problems, the flow chart recorders have been inactivated.

TEE NAME/ADDRES
ame/Location if differ

Genwal Coal Company
SS P.O. Box 1201
Huntington, UT 84528

TY Crandall Canyon Mine
ION Crandall Canyon Emery County Utah

NATIONAL POLLUTANT DIS LIMINATION SYSTEM *(NPDES)*
DISCHARGE MO G REPORT *(DMR)*

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*
UT 0024368	001

Form ved
OMB 040-0004
Approval expires 6-30-88

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	1	1	TO	93	3	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* *(46-53)* QUANTITY OR LOADING *(54-61)*			*(4 Card Only)* *(38-45)* QUALITY OR CONCENTRATION *(46-53)*	*(54-61)*			NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
	SAMPLE MEASUREMENT	N O	D I S C H	A R G	E						
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ME/TITLE PRINCIPAL EXECUTIVE OFFICER

Randal J Ralphs

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

Randal J Ralphs

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
801	687-9813	93	4	1
AREA CODE	NUMBER	YEAR	MO	DAY

ENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

TTEE NAME/ADDRE
Name/Location if dif)
E Genwal al Company
ESS P.O. Box 1202
Huntington, UT 84528

ITY Crandall Canyon Mine
TION Crandall Canyon Emery County Utah

NATIONAL POLLUTANT D ELIMINATION SYSTEM *(NPDES)*
DISCHARGE I. ING REPORT *(DMR)*

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
UT 0024368	002

Fo roved
OM 2040-0004
Approval expires 6-30-88

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	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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801	687-9813	93	4	1
AREA CODE	NUMBER	YEAR	MO	DAY

IMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

ERMITTEE NAME/AD de
acility Name/Location if
AME GENWAL COAL COMPANY
DDRESS P.O. BOX 1201
HUNTINGTON, UTAH 84528

ACILITY CRANDALL CANYON MINE
OCATION CRANDALL CANYON EMERY COUNTY UTAH

NATIONAL POLLUTAN RGE ELIMINATION SYSTEM *(NPDES)*
DISCHARG TORING REPORT *(DMR)*

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
UT 0024368	001

Approved
No. 2040-0004
Approval expires 6-30-88

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
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No Flow

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
RANDAL J. RALPHS	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	Randal Ralphs	801	687-9813	93	07	01
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

ERMITTEE NAME/AI [redacted] ude
acility Name/Location
IAME GENWAL COAL COMPANY
DDRESS P.O. BOX 1201
HUNTINGTON, UTAH 84528

ACILITY CRANDAL CANYON MINE
OCATION CRANDALL CANYON EMERY COUNTY UTAH

NATIONAL POLLUTAN [redacted] RGE ELIMINATION SYSTEM *(NPDES)*
DISCHARG [redacted] TORING REPORT *(DMR)*

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
UT 0024368	002

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	05	01	TO	93	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

[redacted] Approved
[redacted] No. 2040-0004
Approval expires 6-30-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
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TYPED OR PRINTED						

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

RMITTEE NAME/AD
ility Name/Location
AME GENWAL COAL COMPANY
DDRESS P.O. BOX 1201
HUNTINGTON, UTAH 84528
ACILITY CRANDALL CANYON MINE
OCATION CRANDALL CANYON EMERY COUNTY UTAH

NATIONAL POLLUTANT ... ELIMINATION SYSTEM *(NPDES)*
DISCHARGE ... RING REPORT *(DMR)*

Approved
O... 2040-0004
Approval expires 6-30-88

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*
UT 0024368	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	07	01	TO	93	09	30
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

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	SAMPLE MEASUREMENT	NO FLOW									
	PERMIT REQUIREMENT										
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RANDAL J. RALPHS
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Randal J. Ralphs
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 801 NUMBER 687-9813

DATE: YEAR 93 MO 09 DAY 30

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

RMITTEE NAME/AD S
ility Name/Location

NATIONAL POLLUTA E ELIMINATION SYSTEM *(NPDES)*
DISCHARG RING REPORT *(DMR)*

proved
2040-0004
Approval expires 6-30-88

AME GENWAL COAL COMPANY
DRESS P.O. BOX 1201
HUNTINGTON, UTAH 84528

CILITY CRANDALL CANYON MINE
OCATION CRANDALL CANYON EMERY COUNTY UTAH

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
UT 0024368	002

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	07	01	TO	93	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
AREA CODE NUMBER

DATE

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

ERMITTEE NAME/AD SS de
cility Name/Location
AME GENWA COAL CO, INC-CRANDALL
DDRESS P O BOX 1201
HUNTINGTON UT 84528

ACILITY
OCATION
TN: RANDAL J. RALPHS, SRFC FOREMAN

NATIONAL POLLUTAN GE ELIMINATION SYSTEM *(NPDES)*
DISCHAR ORING REPORT *(DMR)*

F proved.
2040-0004
Approval expires 6-30-91

(2-16)	(17-19)
UT0024368	001 A
PERMIT NUMBER	DISCHARGE NUMBER

F - FINAL
6" PIPE NO SIDE OF SETTLE POND

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	10	01	TO	93	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR

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	SAMPLE MEASUREMENT	******	******			******					
400 R 0 0 E COMMENTS BELOW	PERMIT REQUIREMENT	******	******	**** ****	6.0 DAILY MN	******	9.0 DAILY MX	SU		QTRLY	GRAB
	SAMPLE MEASUREMENT	******	******			******					
400 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		QTRLY	GRAB
LIDS, TOTAL SPENDED	SAMPLE MEASUREMENT	******	******								
530 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	25 7 DA AVG	35 30 DA AV	70 DAILY MX	MG/L		QTRLY	GRAB
LIDS, SETTLEABLE	SAMPLE MEASUREMENT	******	******		******	******					
545 R 0 0 E COMMENTS BELOW	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX	ML/L		QTRLY	GRAB
L AND GREASE EON EXTR-GRAV METH	SAMPLE MEASUREMENT	******	******		******	******					
556 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	10.0 DAILY MX	MG/L		QTRLY	GRAB
ON, TOTAL (AS FE)	SAMPLE MEASUREMENT	******	******		******	******					
045 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	1.0 DAILY MX	MG/L		QTRLY	GRAB
OW, IN CONDUIT OR RU TREATMENT PLANT	SAMPLE MEASUREMENT				******	******	******				
050 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DA AV	REPORT DAILY MX	MGD	******	******	******	**** ****		CONTIN UOUS	RECORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
RANDAL J. RALPHS	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	Randal Ralph	801	687-9813	94	01	03
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

IMITS ONLY APPLY IN STORM EVENTS; MUST PROVE REQUIREMENTS ARE MET.

RMITTEE NAME/AD SS Include
ility Name/Location
AME GENWA COAL CO. INC-CRANDALL
DDRESS P O BOX 1201
HUNTINGTON UT 84528
ACILITY
OCATION
TN: RANDAL J. RALPHS, SRFC FOREMAN

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Approved.
2040-0004
Approval expires 6-30-91

(2-16) UT0024368 PERMIT NUMBER

(17-19) 001 A DISCHARGE NUMBER

F - FINAL
6" PIPE NO SIDE OF SETTLE POND

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	10	01	TO	93	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
LIDS, TOTAL SSOLVED 295 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******					
	PERMIT REQUIREMENT	******	******	********	******	******	723.0	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NO FLOW

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
RANDAL J. RALPHS	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	Randal Ralphs	801	687-9813	94	01	03
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

MITS ONLY APPLY IN STORM EVENTS; MUST PROVE REQUIREMENTS ARE MET.

ITTEE NAME/AD RESS (In
y Name/Locatio rent)
E GENWA COAL CO. INC-CRANDALL
RESS P O BOX 1201
HUNTINGTON UT 84528

LITY
ATION
N: RANDAL J. RALPHS, SRFC FOREMAN

NATIONAL POLLUTAN SCH ELIMINATION SYSTEM (NPDES)
DISCHAR ON ING REPORT (DMR)

(2-16) UT0024368 PERMIT NUMBER

(17-19) 002 A DISCHARGE NUMBER

F - FINAL
4" PIPE NO SIDE OF SETTLE POND

ved.
40-0004
Approval expires 6-30-91

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	10	01	TO	93	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (46-53) AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00 R 0 0 COMMENTS BELOW	SAMPLE MEASUREMENT	******	******			******					
	PERMIT REQUIREMENT	******	******	**** ****	6.0 DAILY MN	******	9.0 DAILY MX SU			QTRLY	GRAB
00 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******			******					
	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX SU			QTRLY	GRAB
LIDS, TOTAL SPENDED 530 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******								
	PERMIT REQUIREMENT	******	******	**** ****	25 7 DA AVG	35 30 DA AV	70 DAILY MX MG/L			QTRLY	GRAB
LIDS, SETTLEABLE 545 R 0 0 E COMMENTS BELOW	SAMPLE MEASUREMENT	******	******		******	******					
	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX ML/L			QTRLY	GRAB
L AND GREASE EON EXTR-GRAV METH 556 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******					
	PERMIT REQUIREMENT	******	******	**** ****	******	******	10.0 DAILY MX MG/L			QTRLY	GRAB
ON, TOTAL (AS FE) 045 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******					
	PERMIT REQUIREMENT	******	******	**** ****	******	******	1.0 DAILY MX MG/L			QTRLY	GRAB
OW, IN CONDUIT OR RU TREATMENT PLANT 050 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT				******	******	******				
	PERMIT REQUIREMENT	REPORT 30 DA AV	REPORT DAILY MX MGD		******	******	******	**** ****		CONTINR UOUS	CORDR

NO FLOW

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

RANDAL J. RALPHS

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

Randal Ralphs

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
801	687 9813	94	01	03
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

IMITS ONLY APPLY IN STORM EVENT; MUST PROVE REQUIREMENTS MET.

PAGE OF

PERMITTEE NAME/ADDRESS (Include Facility Name/Location)
NAME GENWA C[illegible] CO. INC-CRANDALL
ADDRESS P O BOX 1201
HUNTINGTON UT 84528
FACILITY
LOCATION
ATTN: RANDAL J. RALPHS, SRFC FOREMAN

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved. OMB No. 2040-0004 Approval expires 6-30-91

(2-16) UT0024368 PERMIT NUMBER

(17-19) 002 A DISCHARGE NUMBER

F - FINAL
4" PIPE NO SIDE OF SETTLE POND

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	10	01	TO	93	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
LIDS, TOTAL SSOLVED 295 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******					
	PERMIT REQUIREMENT	******	******	********	******	******	723.0	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
RANDAL J. RALPHS
TYPED OR PRINTED

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Randal Ralphs
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
801	687-9813	94	01	03

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

LIMITS ONLY APPLY IN STORM EVENT; MUST PROVE REQUIREMENTS MET.

NO FLOW