| Mon Friday | | | Tue Thursday | | | Wed Wednesday | | | Thur Tuesday | | | Fri Monday | | | 03-12-90 03-17-90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:30p | 3:30p | 7:30a | 11:30p | 3:30p | 7:30a | 11:30p | 3:30p | 7:30a | 11:30p | 3:30p | 7:30a | 11:30p | 3:30p | 7:30a | TIME |
| 30 | | 6 | 6 | | 9.0 | 10 | | 05 | 06 | | 9.0 | 9. | | 9.0 | CAUSTIC ✗ (1.7) Good Fig |
| | | | | | | | | | | | | | | | |
| 24 | | 20 | 26.5 | | 3.0 | 30 | | 32 | 32. | | 32.5 | 34 | | 35.0 | FLOC LEVEL |
| 11.7 | | 7.7 | 5. | | 10.7 | 10.1 | | 8.9 | 5.0 | | 10.4 | 9.9 | | 8.1 | SUMP A (PH-Reading PH-Paper) |
| 8.6 | | 9.5 | 11.5 | | 10.3 | 10.6 | | 5.5 | 11.1 | | 12.1 | 11.8 | | 11.4 | SUMP B (PH-Reading PH-Paper) |
| 12.20 | | 8.3 | 5. | | 10.0 | 12. | | | | | 10.91 | / | | 8.97 | SUMP A (PH-Reading PH-Paper) |
| | | 9.45 | METRO 6.2 | | 11.0 | METRO 10 19:00 | | | | | 11.96 | 13. | | 11.47 | SUMP B (PH-Reading PH-Paper) |
| 9650 | | 1023.9 | 1018.8 | | 1500.0 | 10037 | | 04967 | 04261 | | 16552.0 | 15002 | | 10722.0 | FLOWMETER |
| 32 | | 29 | 27 | | 48 | 50 | | 32 | 21 | | 36 | 36 | | 30 | CYCLES |
| 2311 122°F | | 03-16 122°F 0716 | 2315 140°F | | | 2320 | | | 2330 | | 0800 03-13 | 120°F 2318 | | 1300 03-12 | SAMPLE I.D. |
| 10.8 | | | 9.8 | | 10.0 | 12. | | | 10.47 | | 11.0 | 13.66 | | 9.5 | HOPPER A (PH-Paper) |
| 11.2 | | | 8.8 | | 10.0 | 11. | | | 7.61 | | 12.0 | 12.91 | | 10.6 | HOPPER B (PH-Paper) |

2320 Shut down Boiler will advise 3RD shift

0708 Turned on Boiler

Acid 1.14

Cut

Date 03-19-90 To 03-23-90

| TIME | Friday 11:30p | Friday 3:30p | Friday 7:30a | Thursday 11:30p | Thursday 3:30p | Thursday 7:30a | Wednesday 11:30p | Wednesday 3:30p | Wednesday 7:30a | Tuesday 11:30p | Tuesday 3:30p | Tuesday 7:30a | Monday 11:30p | Monday 3:30p | Monday 7:30a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAUSTIC | 10 | 11 | | 11 | 12 | 14 | 14 | | 20 | 20 | 21 | 28 | 29 | 30 | 31 |
| (1.7) Imhoff | | | 4.5 | | | 6.5 | 15 | | | | | | | | |
| FLOC LEVEL | 38 | 42 | | 39 | 45 | 48 | 48 | | 5 | 5 | 5 | 7.5 | 12 | 15 | 17 |
| SUMP A (PH-Reading PH-Paper) | 11.4 | 11.0 | 9.0 | [illegible] | 9.3 | 11.0 | 10.1 | | 9.1 | 12.1 | 11.5 | 9.5 | 12.1 | 10.9 | 12.1 |
| SUMP B (PH-Reading PH-Paper) | 11.0 | 11.1 | 11.7 | [illegible] | 11.8 | 12.1 | 10.8 | | 12.0 | 9.2 ~~8.9~~ | 7.2 | 11.5 | 10.5 | 11.6 | 5.5 |
| SUMP A (PH-Reading PH-Paper) | | | 11.0 | | 9.0 | 9.5 | | | 11.0 | | | 9.3 | 9. | 10.5 | |
| SUMP B (PH-Reading PH-Paper) | | | 10.0 | METRO 9. | 11.0 | 11.5 | | | 9.0 | METRO 11. | | METRO [illegible] | METRO 11 | 10.5 | 6.0 |
| FLOWMETER | 1886 | 1216 | 1747 | 4136 | 3366 | 3016 | 2787 | | 7854 | 7637 | 5559 | 2446 | 2095 | 582 | 785 |
| CYCLES | 8 | 11 | 101 | 99 | 89 | 73 | 67 | | 7 | 85 | 68 | 9 | 3 | 4 | 71 |
| SAMPLE I.D. | 23 | | ~~[illegible]~~ | 2340 | | | 2330 | | | 2340 | | | 2330 | | |
| HOPPER A (PH-Paper) | 10 | 10.0 | 10.0 | 10. | | | | | 11.0 | 10 | | | 10. | 11.5 | 11.0 |
| HOPPER B (PH-Paper) | 10 | 10.0 | 11.0 | 10 | | | | | 10.5 | 11 | | | 11. | 11.6 | 10.1 |

Boiler Temp 140°F - 110°F

Boiler turned off AT. 20:40

75°F

Temp. 03-19-90 0800

NW 108°F

17:30 Temp. Lg. 138°F

23:30 Sm. 117°F Lg. 128F

Sm. 122°F

032190 Boiler was off Time 2348 pipe are cold

Temp 031990 Time 2328 132F°

Temp. 032090 138F° 2330

22 4 8 28 6

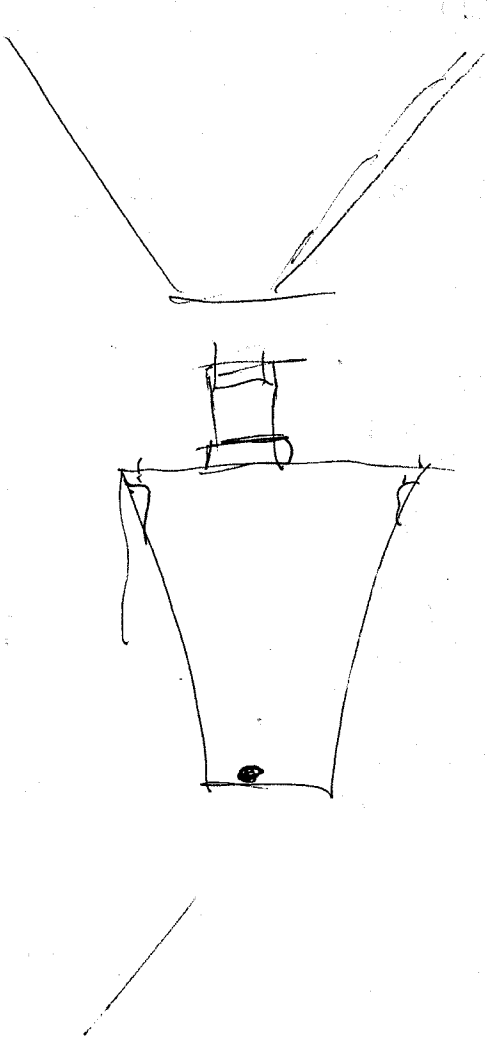
6 28 / 224

6 28 / 234

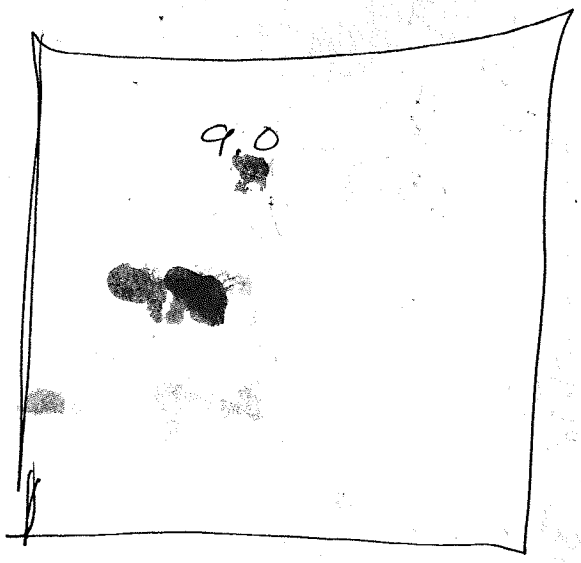
6 28 / 234

03-26-90 TO 03-30-90

| TIME | Friday 11:30p | Friday 3:30p | Friday 7:30a | Thursday 11:30p | Thursday 3:30p | Thursday 7:30a | Wednesday 11:30p | Wednesday 3:30p | Wednesday 7:30a | Tuesday 11:30p | Tuesday 3:30p | Tuesday 7:30a | Monday 11:30p | Monday 3:30p | Monday 7:30a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAUSTIC (1.7) In hoff | 30 | 32 | 33 | 33 | | 4 | 4 | 5 | 5 | 5 | 7.0 | 7.0 | 8 | | 7.0 |
| | 24 | | 10 | | | 1½ mL | | | 1½ mL | | 1.5 mL | | 1.5 | | |
| FLOC LEVEL | 24 | 27 | 30 | 31.0 | | 39 | 38 | 39 | 40 | 39 | 48 | 5.0 | 9 | | 15 |
| SUMP A (PH-Reading PH-Paper) | 12 | 8.3 | 10.5 | 12.0 | | 10.6 | 11.7 | 8.1 | 8.5 | 12.0 | 11.1 | 11.3 | 11.8 | | 10.0 |
| SUMP B | | 8.3 | 12.0 | 11.1 | | 12.0 | 11.3 | 11.7 | 11.8 | 9.9 | 12.1 | 11.8 | 9.0 | | 11.0 |
| SUMP A | | | 9.0 | | | 11.0 | 10.86 | 8.0 | 8.5 | 14.49 | | 12.0 | | | 9.0 |
| SUMP B | 10 | | 11.0 | | | 12.0 | 13.83 | 11.0 | 11.5 | 1 | | 11.0 | | | |
| FLOWMETER | | 18 | 2679 | 2679 | | 2169 | 1991 | 796 | 1500 | 1500 | 439 | 1938 | 1403 | | 4742 |
| CYCLES | | 5 | 15 | 15 | | 13 | 21.0 | 5 | 15 | 15 | 3 | 55.0 | 52 | | 33 |
| SAMPLE I.D. | 2330 | | | | | | 2333 | | | 2331 | | 1.5 mL | 2330 | | |
| HOPPER A (PH-Paper) | 10 | | 10.0 | 9.58 | | 9.0 | 10.12 | 9.0 ~~9.0~~ | 9.0 | 13. | | 11.0 | | | 10.0 |
| HOPPER B | 10 | | 10.0 | 9.70 | | 10.0 | 9.91 | 11.0 ~~10.0~~ | 10.0 | 14.75 | | 10.0 | | | 11.0 |
| Temp. | 125°F | 110°F | | | | | 138°F 0800 | | 120°F | NO PH PAPER OR BATTERIES FOR PH TESTER | | | 1/ 145°F | | 2/ 90°F |
| | | | | | Shutt Down Boiler 2330 | | Lg. 142°F T:2320 | | Sm. 122°F 280390 | Shutting Boiler Down T:11:35 | | | Lg. 122°F | | Sm. 130°F |
| | | | Boiler ON 0700 120°F | | | 110°F | Lg. 2333 | | Sm. 120°F 032790 | Shutting Down Boiler 2340 | | | Lg. 144°F T:2335 | | Sm. 138°F 032790 |
| | | | | | Boiler OFF 2336 | | Lg. 128°F T:2332 | | Sm. 128°F 033090 | | | | | | |



250



# ACIDYARD MONITOR

| | | | | |
|---|---|---|---|---|
| TODAYS DATE | 0800 27<br>02-26-90 | 22:30<br>022690 | 23:22<br>022790 | 2320<br>0280290 |
| TANK LOCATION | 3200 | 3200 | 3200 | 3200 |
| TANK LEVEL-INS | 50 50 | 49 | 46.5 | 45 3/4 |
| DESIRED LEVEL-INS | 55 54 | 55 | 55 | 55 |
| ACID TANK TEMPERATURE | 128°F 128° | 140° 120 | 134 120°F | 125 120F° |
| TANK SPECIFIC GRAVITY | 1273 | | | |
| CORRECTION FACTOR | | | | |
| HYDROMETER READING | | | | |
| ACID TANK DENSITY | | | | |
| DILUTIONS | | | | |

Boiler on 1500

SAMPLE I.D.#

| TITRATIONS | A | NA | WA | B | NB | PHI | PHE | % |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |

ACTIONS & COMMENTS:

N. Tank Needs Recharge 10"