



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

File No.

Washington ...

District .....

| Time | Min. | Mark | Rule  | D/w    | Airline | Head   | P | Remarks          |
|------|------|------|-------|--------|---------|--------|---|------------------|
|      |      |      | SW L  |        |         |        |   | 170 + 3.2 = 173. |
| 1 pm | 1:15 | 230  |       | 230.0  |         |        |   |                  |
|      | 2    | 230  | +4.4  | 234.4  |         |        |   |                  |
|      | 4    | 240  | -1.8  | 238.2  |         |        |   |                  |
|      | 5    |      | -0.9  | 239.1  |         |        |   |                  |
|      | 6    |      | -0.3  | 239.7  |         |        |   |                  |
|      | 7    |      | +0.3  | 240.3  |         |        |   | Approx 1100-1200 |
|      | 8    |      | +0.9  | 240.9  |         |        |   |                  |
|      | 9    |      | +1.3  | 241.3  |         |        |   |                  |
|      | 10   |      |       |        |         |        |   | decrease rate    |
|      | 11   | 240  | +0.6  | 240.6  |         | 1000   |   |                  |
|      | 12   |      | +1.2  | 241.2  |         |        |   |                  |
|      | 14   | 240  | +1.9  | 241.9  |         |        |   |                  |
|      | 16   |      | +2.3  | 242.3  |         |        |   |                  |
|      | 18   |      | +2.6  | 242.6  |         |        |   |                  |
|      | 20   |      | +2.85 | 242.8  |         |        |   |                  |
|      | 25   |      | +2.8  | 242.8  |         |        |   | rate increase    |
|      | 31   | 240  | +3.1  | 243.1  |         |        |   | slightly         |
|      | 35   | 240  | 2.8   | 242.8  |         |        |   | same in 142      |
|      | 41   | 240  | 2.6   | 242.6  |         | 1000   |   | same in 142      |
|      | 50   | 240  | 2.65  | 242.6  |         |        |   |                  |
|      | 60   | 240  | 2.5   | 242.5  |         |        |   |                  |
|      | 75   | 240  | 2.25  | 242.25 |         |        |   |                  |
| 2:30 | 90   | 240  | 2.2   | 242.2  |         | 1000   |   |                  |
| 2:45 | 105  | 240  | 2.1   | 242.1  |         |        |   |                  |
|      | 108  |      |       |        |         | 1200   |   | increase rate 7  |
|      | 110  | 250  | 1.6   | 251.6  |         |        |   |                  |
|      | 112  |      | 2.2   | 252.2  |         |        |   |                  |
|      | 114  |      | 2.6   | 252.6  |         |        |   |                  |
|      | 116  |      | 3.0   | 253.0  |         |        |   |                  |
| 3 pm | 120  | 250  | 3.7   | 253.7  |         | 60 1/2 |   |                  |



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| min   |     |      | D/w   | Head   | Q           |                          |
|-------|-----|------|-------|--------|-------------|--------------------------|
| 3:05  | 125 | 250  | 4.1   | 254.1  | 60 1/2      | Water T = 51°            |
| 3:15  | 135 | 250  | 3.75  | 253.75 | 60 1/2      | air temp 28              |
| 3:30  | 150 | 250  | 3.8   | 253.8  | 60 1/2      |                          |
| 3:45  | 165 | 250  | 3.5   | 253.5  | 60 1/2      | cloudy                   |
| 4:00  | 180 |      | 3.2   | 253.2  |             |                          |
| 4:15  | 195 |      | 3.15  | 253.15 | 60 1/2      |                          |
| 4:30  | 210 |      | 3.05  | 253.05 | 61          | T = 51°                  |
| 4:45  | 225 | 250  | 3.0   | 253.0  |             | slightly cloudy with sun |
| 5:00  | 240 | 250  | 3.0   | 253.0  | 61          | gusting clear.           |
| 5:30  | 270 | 250  | 3.0   | 253.0  | 61          |                          |
| 6:00  | 300 | 250  | 3.2   | 253.2  | 61          |                          |
| 6:30  | 330 | 250  | 3.2   | 253.2  | 61          |                          |
| 7:00  | 360 | 250  | 3.1   | 253.1  | 61          | slightly cloudy          |
| 7:30  | 390 |      | 3.2   | 253.2  | 61          | clearing                 |
| 7:45  |     |      |       |        |             | shut-off to sun          |
| 8:00  |     |      |       |        | 42 1001     |                          |
| 8:15  | 240 | +1.7 | 241.7 |        | 46 1/2 985  | T 51° : air              |
| 8:35  | 240 | +1.6 | 241.6 |        |             |                          |
| 8:38  |     |      |       |        |             | opened full              |
| 8:45  | 250 | +1.6 | 251.6 |        | 60 1/2 1200 | clear                    |
| 9:00  | 250 | +3.4 | 253.4 |        |             |                          |
| 9:01  |     |      |       |        |             | shut down to sun         |
| 9:05  |     |      |       |        |             | 52 lbs on gage           |
| 9:15  |     |      |       |        | 38 985      | slightly cloudy          |
| 9:30  | 240 | +0.8 | 240.8 |        |             |                          |
| 9:31  |     |      |       |        |             | opened up full           |
| 10:00 | 250 | +3.6 | 253.6 |        | 60 1/2 1195 |                          |

 333 235  
 80 48  
 13 183

UNITED STATES  
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File No.

Washington ..

District -----

[illegible]

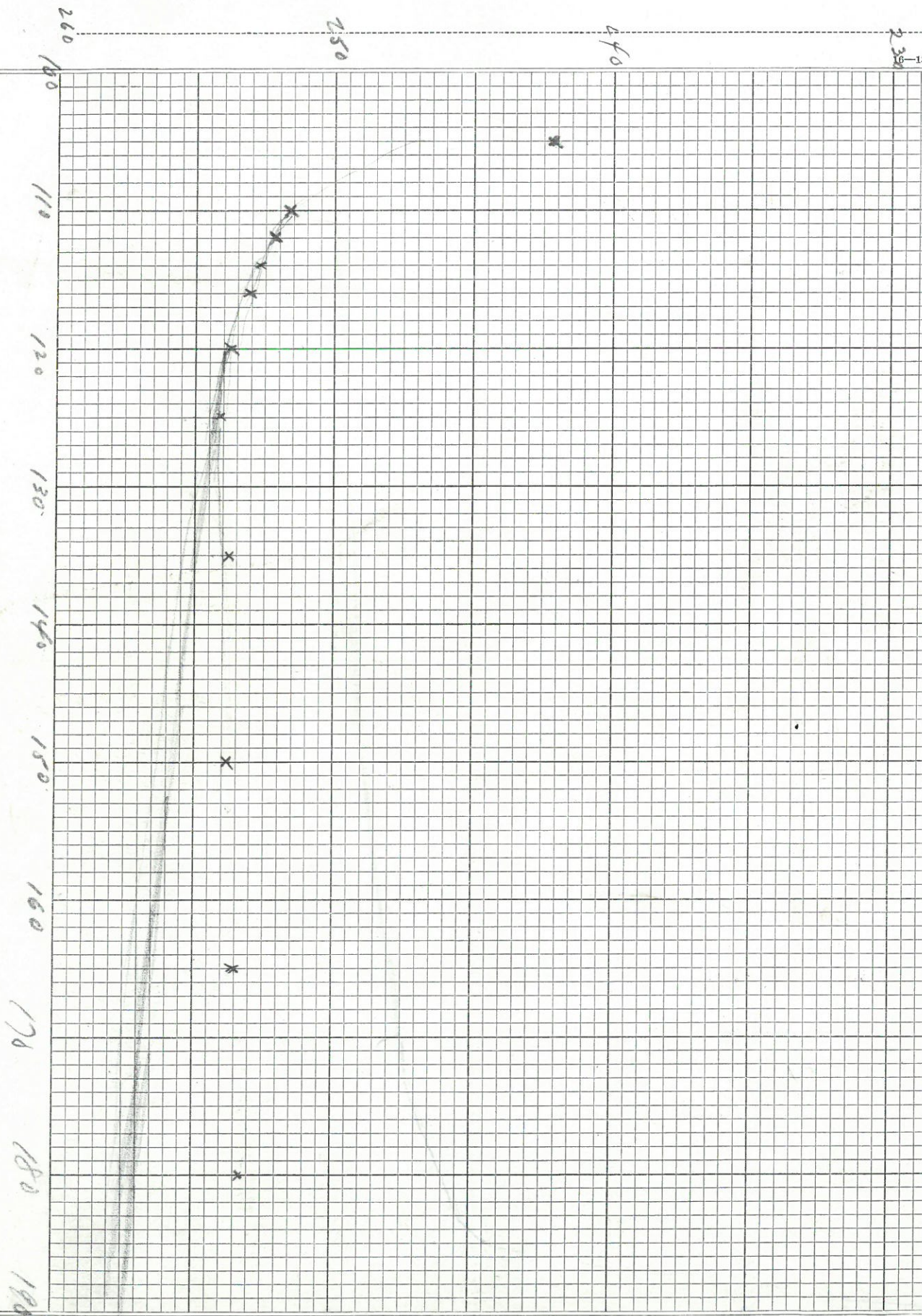


(November 1939)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES BRANCH

File *Washington*  
Number { District \_\_\_\_\_

(DO NOT USE THIS SPACE EXCEPT FOR BINDING PURPOSES)



(DO NOT USE THIS SPACE EXCEPT FOR BINDING PURPOSES)

230

235

240

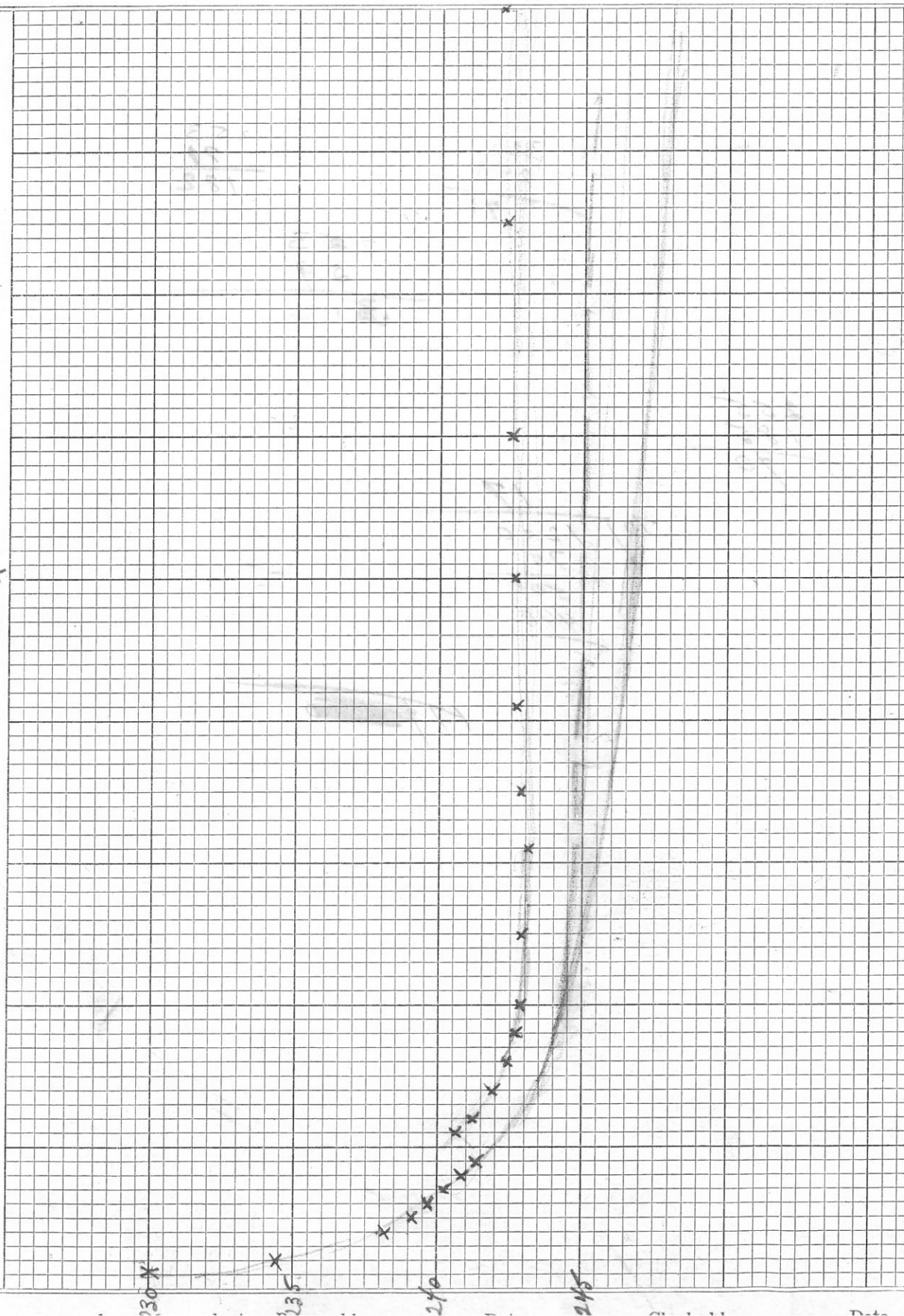
245

230

235

240

245





UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

 File No. { Washington -  
 District .....

Mason City # 14

3/11/57

| Time          | elapsed<br>Min | Hold | tape  | D/w    | N     | h         | g (gpm) | Remarks                     |
|---------------|----------------|------|-------|--------|-------|-----------|---------|-----------------------------|
| 3/11/57 11:09 |                |      |       | 194.35 |       |           |         | S.W.L.                      |
| 11:11:15      |                |      |       |        |       |           |         | Start Pen                   |
| 16            | 5              | 230  | -0.72 | 229.28 | 34.93 | 51        | 1100    |                             |
| 17            | 6              |      | +0.12 | 230.12 | 35.77 |           |         |                             |
| 18            | 7              |      | +0.72 | 230.72 | 36.37 |           |         | water clear                 |
| 19            | 8              |      | +1.21 | 231.21 | 36.86 |           |         |                             |
| 20            | 9              |      | +1.90 | 231.90 | 37.55 |           |         |                             |
| 21            | 10             |      | 2.32  | 232.32 | 37.97 |           |         |                             |
| 22            | 11             |      | 2.71  | 232.71 | 38.36 |           |         |                             |
| 23            | 12             |      | 3.10  | 233.10 | 38.75 |           |         |                             |
| 24            | 13             |      | 3.36  | 233.36 | 39.01 |           |         |                             |
| 25            | 14             |      | 3.60  | 233.60 | 39.25 |           |         |                             |
| 26            | 15             |      | 4.02  | 234.02 | 39.87 |           |         |                             |
| 27            | 16             |      | 4.22  | 234.22 | 39.87 |           |         |                             |
| 28            | 17             |      | 4.74  | 234.74 | 40.39 |           |         |                             |
| 29            | 18             |      | 5.21  | 235.21 | 40.86 | 51 1/2    | 1105    |                             |
| 11:35         | 24             | 240  | -3.92 | 236.08 | 41.73 |           |         | water clear                 |
| 11:40         | 29             |      | 3.31  | 236.69 | 42.34 |           |         | extremely small amount sand |
| 11:45         | 34             |      | 2.88  | 237.12 | 42.77 |           |         |                             |
| 11:50         | 39             |      | 2.49  | 237.51 | 43.16 |           |         |                             |
| N 12:00       | 49             |      | 1.94  | 238.06 | 43.71 | 51-51 1/2 |         | 50°F water                  |
| 12:10         | 59             |      | 1.50  | 238.50 | 44.15 |           |         | 53°F air                    |
| 12:15         | 64             |      | 1.33  | 238.67 | 44.32 | 51        | 1100    | water clear                 |
| 12:30         | 79             |      | 0.80  | 239.20 | 44.85 | 51        | 1100    |                             |
| 12:45         | 94             |      | 0.20  | 239.80 | 45.45 |           |         |                             |
| 1:00          | 109            |      | +0.12 | 240.12 | 45.77 |           |         |                             |
| 1:15          | 124            |      | +0.42 | 240.42 | 46.07 | 51        | 1100    | 50°F water                  |
| 1:30          | 139            |      | 0.65  | 240.65 | 46.30 |           |         | 54°F air                    |
| 2:00          | 169            |      | 1.02  | 241.02 | 46.67 | 51        | 1100    |                             |
| 2:58          | 227            |      | 1.70  | 241.70 | 47.35 | 51        | 1100    | water clear                 |
| 3:30          | 259            |      | 1.86  | 241.86 | 47.51 | 51        | 1100    | 50°F water                  |
| 4:00          | 289            |      | 2.17  | 242.17 | 47.82 | 51        | 1100    | very little fine            |
| 5:00          | 349            |      | 2.85  | 242.85 | 48.50 |           |         | sand.                       |





(Recovery)

3/12/57

| Time   | elapsed<br>Min | Hold | tape  | D/w           |        | Recovery<br>ft | Residual<br>dd<br>N' | Remarks                   |
|--------|----------------|------|-------|---------------|--------|----------------|----------------------|---------------------------|
| 12:30p |                |      |       | 246.16        |        |                |                      | stop pump                 |
|        | 1              | 210  | -0.22 | 209.72        |        |                |                      |                           |
|        | 2              |      | -0.93 | 209.07        |        |                |                      |                           |
|        | 3              |      | +2.81 | 212.81        |        |                |                      |                           |
|        | 4              |      | +2.97 | 212.97        |        | 33.19          | 18.62                |                           |
|        | 5              |      | +2.27 | 212.27        |        | 33.89          | 17.92                |                           |
|        | 6              |      | +1.64 | 211.64        |        | 34.52          | 17.29                |                           |
|        | 7              |      | +1.25 | 211.25        |        | 34.91          | 16.90                |                           |
|        | 8              |      | +0.80 | 210.80        |        | 35.36          | 16.45                |                           |
|        | 9              |      | +0.41 | 210.41        |        | 35.75          | 16.06                |                           |
| 12:40  | 10             |      | +0.03 | 210.03        |        | 36.13          | 15.68                |                           |
|        | 11             |      | -0.29 | 209.71        |        | 36.45          | 15.36                |                           |
|        | 14             |      | -1.15 | 208.85        |        | 37.31          | 14.50                |                           |
|        | 16             |      | -1.65 | 208.35        |        | 37.81          | 14.00                |                           |
|        | 18             |      | -1.94 | 208.06        |        | 38.10          | 13.71                |                           |
| 12:50  | 20             |      | -2.41 | 207.59        |        | 38.57          | 13.24                |                           |
|        | 22             |      | -2.52 | 207.48        |        | 38.68          | 13.13                |                           |
|        | 24             |      | -2.90 | 207.10        |        | 39.06          | 12.75                |                           |
|        | 26             |      | -3.16 | 206.84        |        | 39.32          | 12.49                |                           |
|        | 28             |      | -3.38 | 206.62        |        | 39.54          | 12.27                |                           |
| 1:00   | 30             |      | -3.57 | 206.43        |        | 39.73          | 12.08                |                           |
|        | 35             |      | -4.15 | 205.85        |        | 40.31          | 11.50                |                           |
| 1:10   | 40             |      | -4.68 | 205.32        |        | 40.84          | 10.97                |                           |
| 1:15   | 45             |      | -5.08 | 204.92        |        | 41.24          | 10.57                |                           |
| 1:20   | 50             |      | -5.44 | 204.56        |        | 41.60          | 10.21                |                           |
| 1:30   | 60             |      | -5.97 | 204.03        |        | 42.13          | 9.68                 |                           |
| 1:40   | 70             | 200  | +3.62 | 203.62        |        | 42.54          | 9.27                 |                           |
| 1:57   | 87             |      | +3.07 | 203.07        |        | 43.09          | 8.72                 |                           |
| 2:53   | 143            |      | +0.95 | +0.92 = +1.87 | 201.87 | 44.29          | 7.52                 | M.P. changed 0.9.         |
| 3:45   | 195            |      | 0.00  | +0.92 = +0.92 | 200.92 | 45.24          | 6.57                 |                           |
| 5:05   | 275            |      | -0.68 | +0.92 = +0.24 | 200.24 | 45.92          | 5.89                 |                           |
|        |                |      |       |               |        |                |                      | change elect lines to 3mo |

Mason City #14 (Recovery) 3/12/57

[illegible]