



P.O. BOX 1625, IDAHO FALLS, IDAHO 83415

April 28, 1983

Ms. Regina Capuano  
Earth Science Laboratory  
University of Utah Research Institute  
420 Chipeta Way, Suite 120  
Salt Lake City, Utah 84108

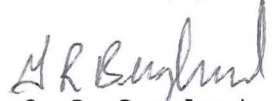
STRIP CHART CONDUCTIVITY MEASUREMENTS - GRB-18-83

Dear Ms. Capuano:

Enclosed is the strip chart conductivity measurements taken in the sample trailer from 10-18-82 to 11-1-82, during Phase I injection test at Raft River. Please note that this measurement was taken for reference only and no calibration was provided.

If you have any questions, please call.

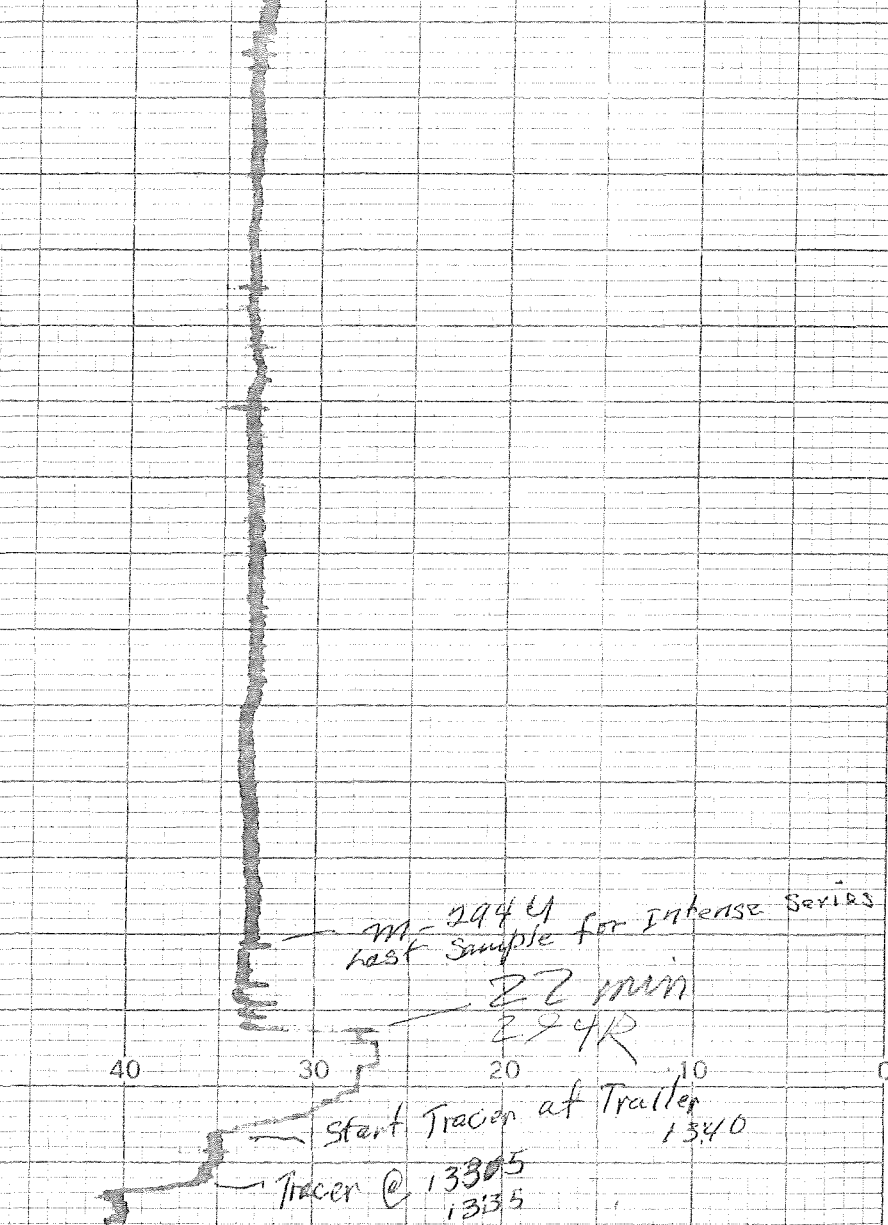
Very truly yours,

  
G. R. Berglund  
Project Engineer

vcm

Enclosures:  
As Stated

100 90 80 70 60 50 40 30 20 10 0



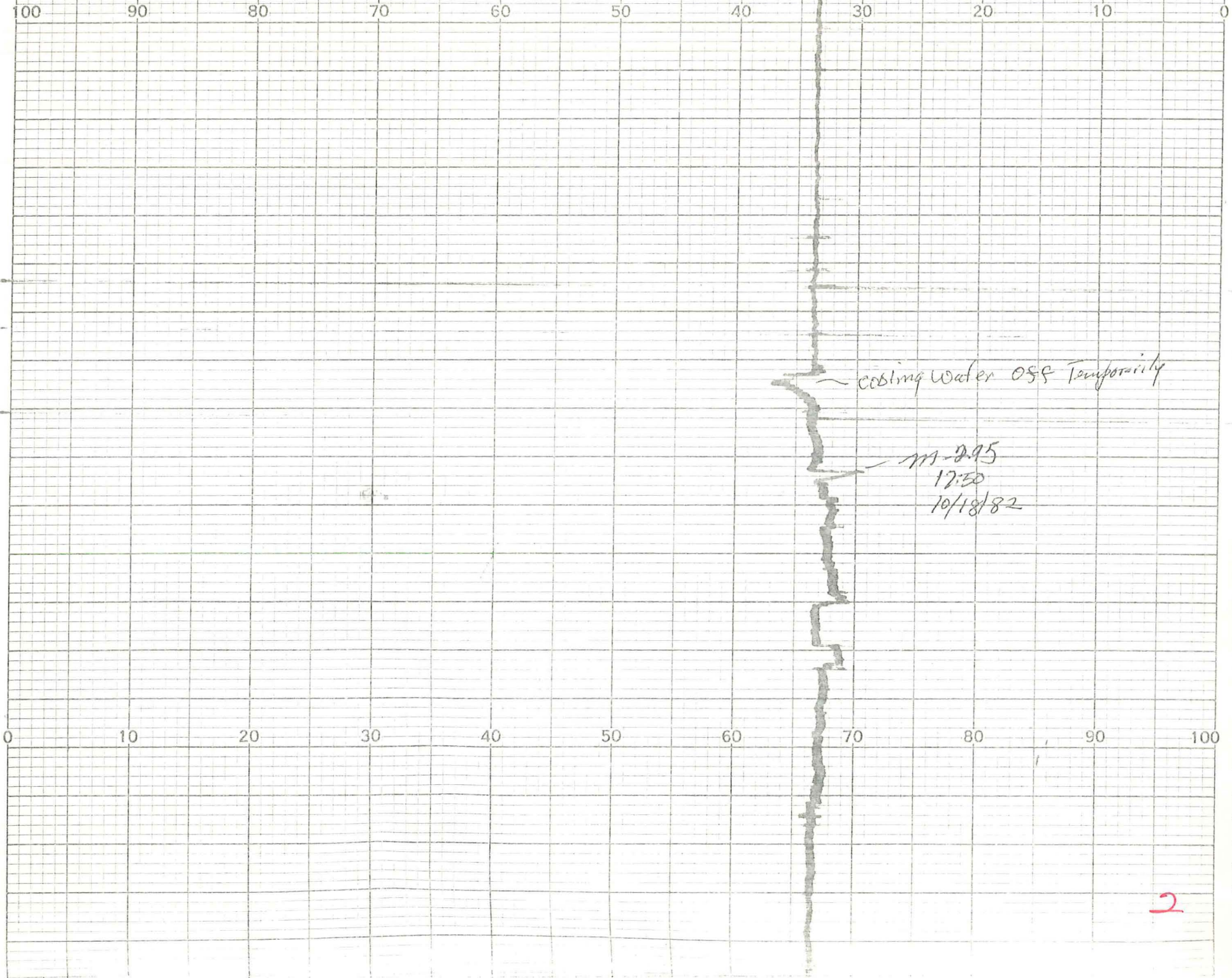
m-294 U  
last Sample for Intense Series

22 min  
294R

start Tracer at Trailer  
1340

Tracer @ 13305  
1335

Test 2.0  
Time 1331  
10/18/82



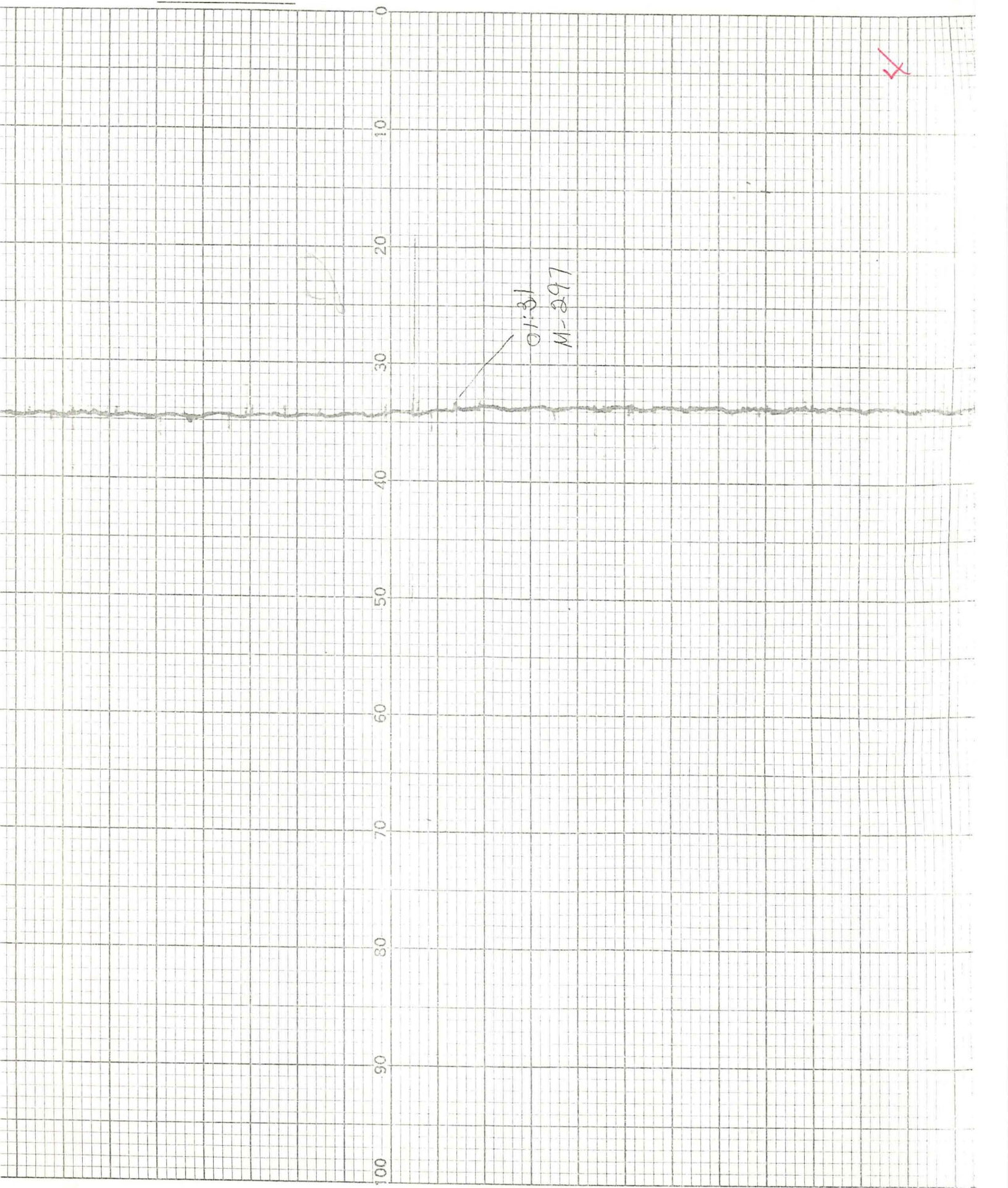
REORDER# 8386-40

0 10 20 30 40 50 60 70 80 90 100

21:35  
Sample Taken  
JH

100 90 80 70 60 50 40 30 20 10 0

3



0 10 20 30 40 50 60 70 80 90 100

05:35  
M-298

5

0 10 20 30 40 50 60 70 80 90 100

100 90 80 70 60 50 40 30 20 10 0

~ M 299  
09:35  
10/19/82

Test 20

6

10/19/82

2 D  
Fluorescein  
+ Borax

m-300 S

300 P

m-300 O

End of Intense Sample Time  
Period

← start 1:41 grades

100 90 80 70 60 50 40 30 20 10 0

7

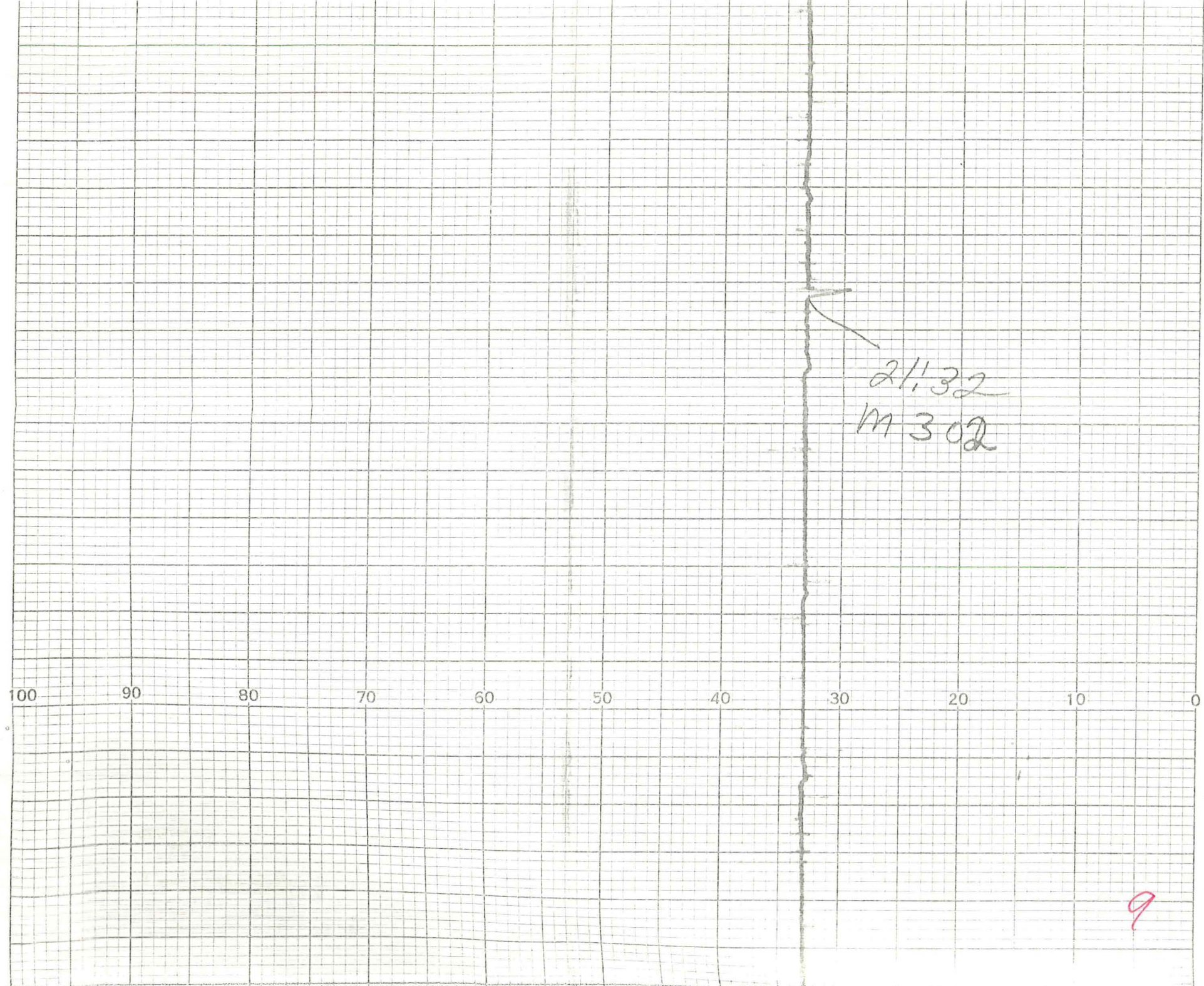


0 10 20 30 40 50 60 70 80 90 100

M 30 (17:35)

m-300g

8



21.32  
M302

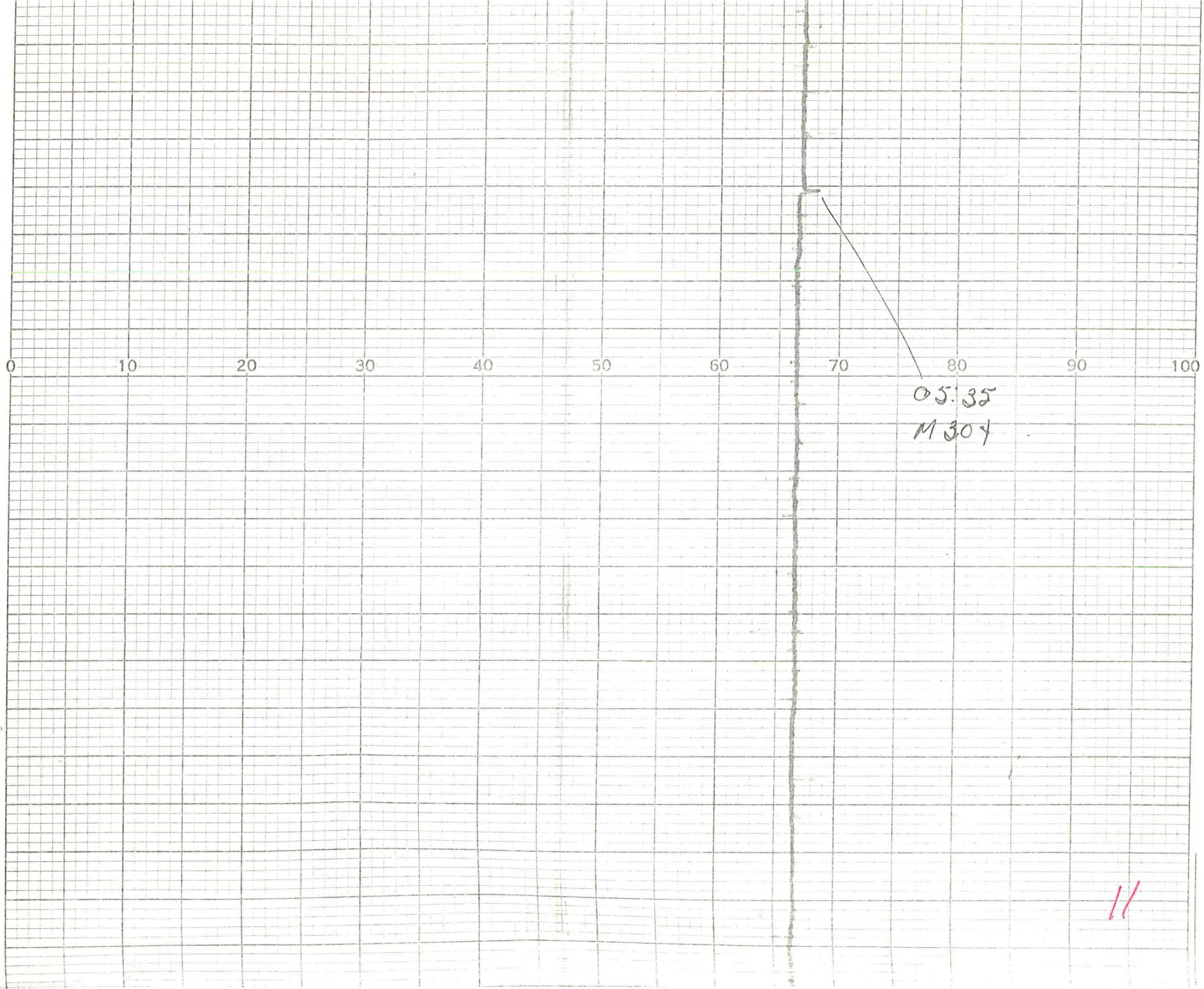
9

100 90 80 70 60 50 40 30 20 10 0

M303  
01:35

0 10 20 30 40 50 60 70 80 90 100

10



05.35  
M304

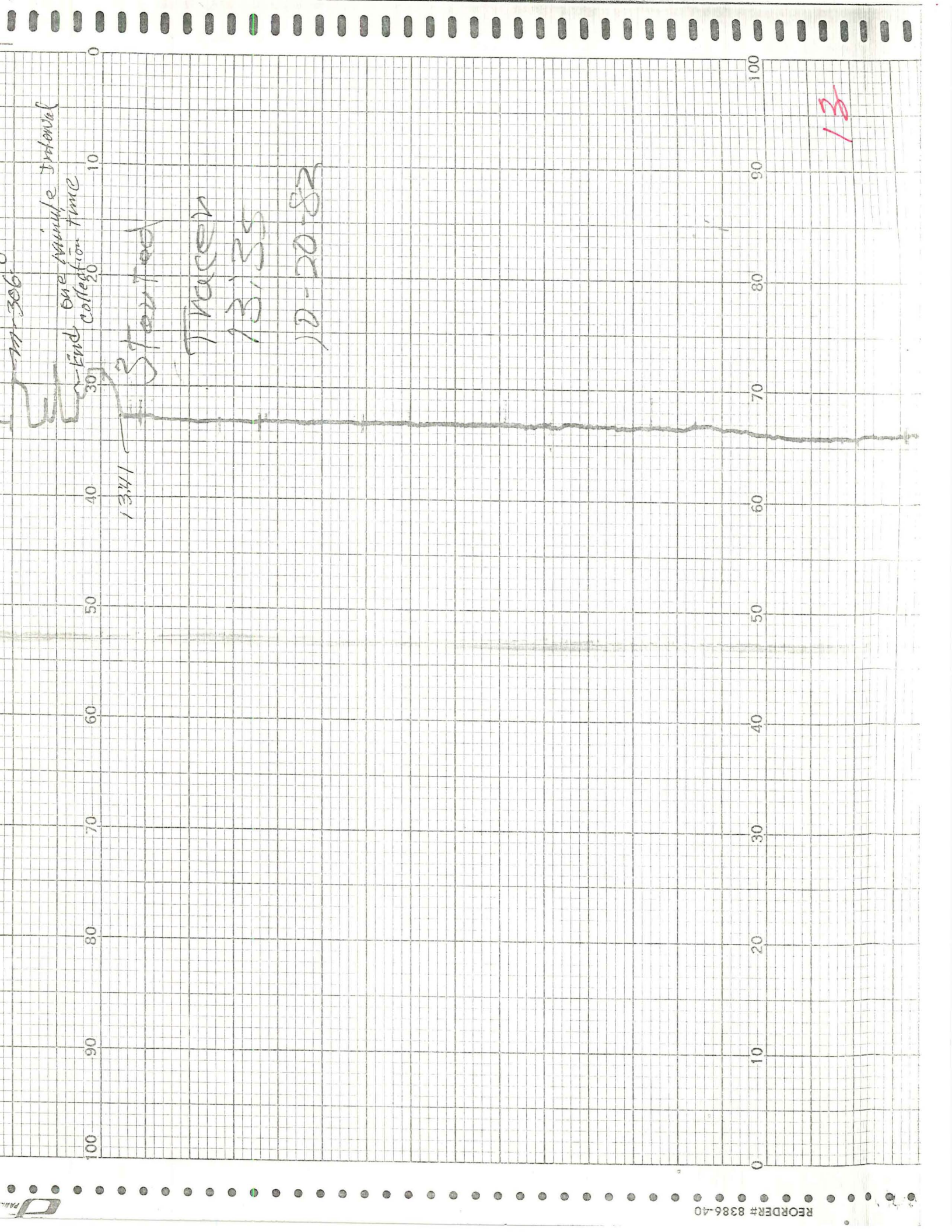
//

100 90 80 70 60 50 40 30 20 10 0

M-305 9:55  
9:39

Oct. 20/82

12



Mr 306  
End One Minute Interval

Started

Tracer

13:35

10-20-82

1341

13

M 307 1535

10-20-82

0 10 20 30 40 50 60 70 80 90 100



M 306 B 1452

M-306 P 1422

M-306 O

14

End One Minute Interval  
Time



1744  
10-20-82

TEST 20

100 90 80 70 60 50 40 30 20 10 0

injection

continued

15



100 90 80 70 60 50 40 30 20 10 0

1744

10-20-82

Test 20

Injection

16

01:35

100 90 80 70 60 50 40 30 20 10 0

21:35  
PULLED SAMPLES

mic

17



M 309  
01:35

18

100 90 80 70 60 50 40 30 20 10 0



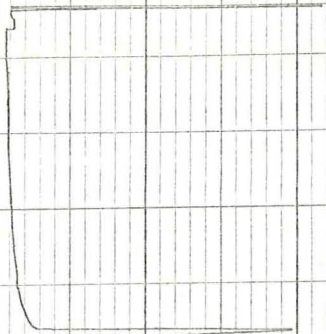
M 310  
05:35

19

100 90 80 70 60 50 40 30 20 10 0

- m 311 935

20



m-3/2  
1335  
10/21/82

21

100 90 80 70 60 50 40 30 20 10 0

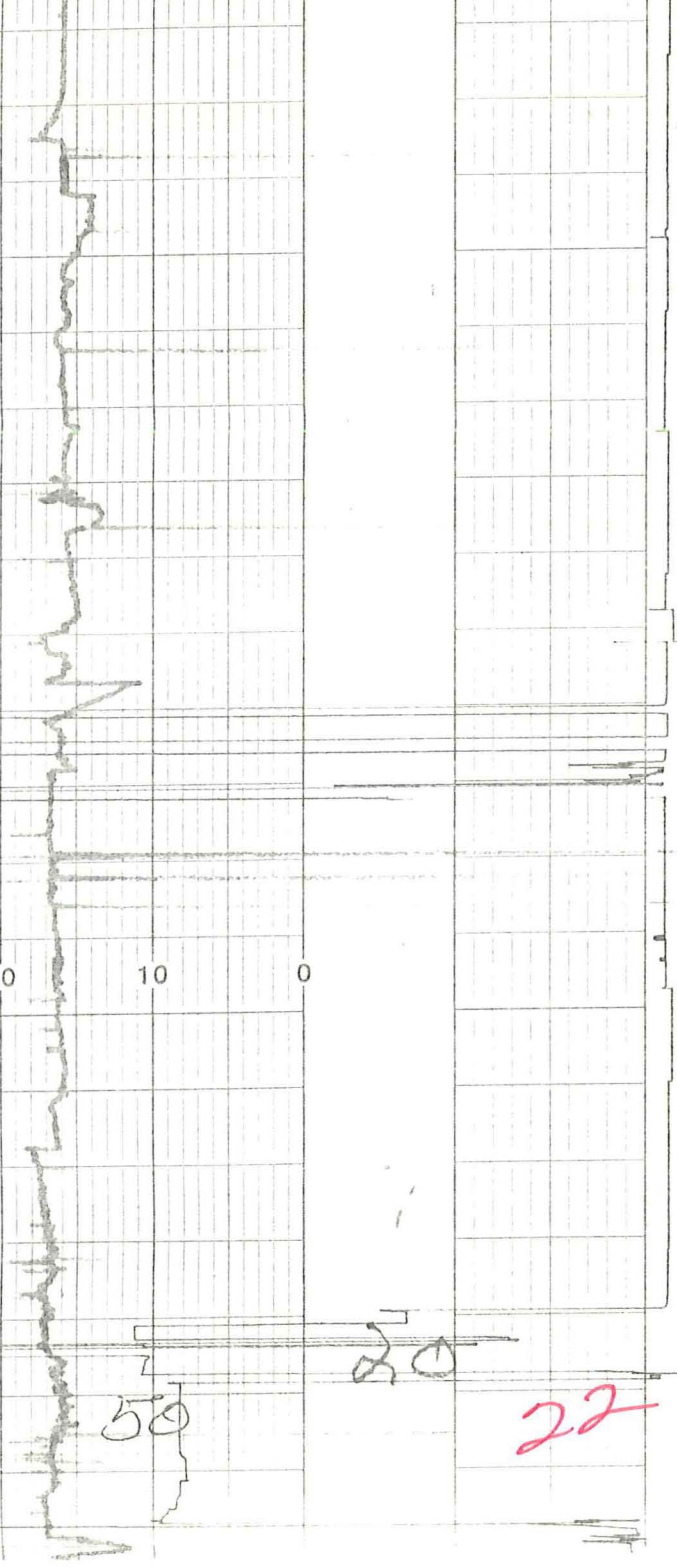


CHART NO. 0100-0013

27

100 90 80 70 60 50 40 30 20 10 0

23





M 315  
01:35

24

100 90 80 70 60 50 40 30 20 10 0



M 3/6  
05:35

25

100 90 80 70 60 50 40 30 20 10 0

50 PAB  
FLUOR-ESCEIN

m319

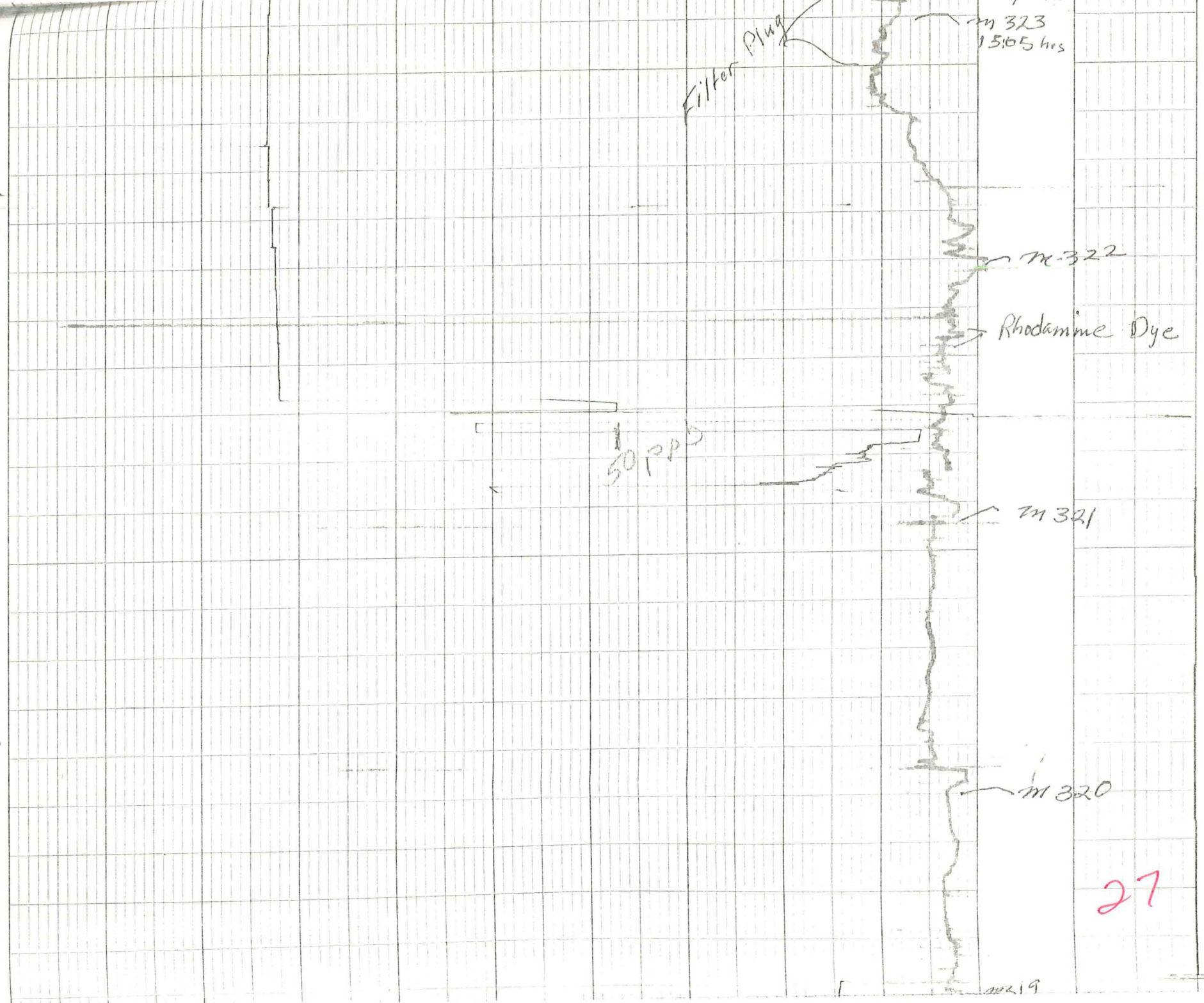
m318

m-317  
0942  
MgCl<sub>2</sub>

Test 20  
Start Mag Injection

26





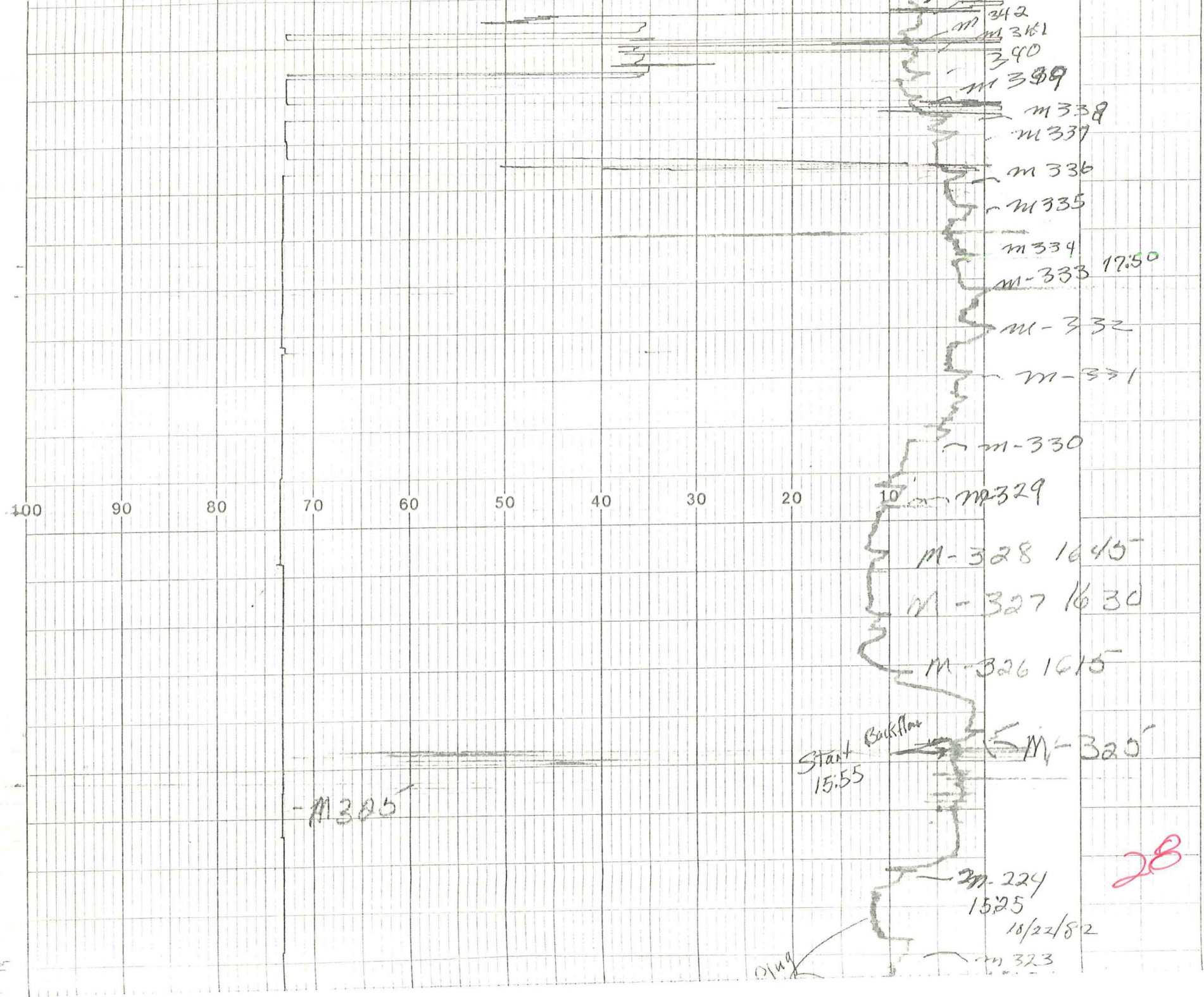


CHART NO. 0100-0013

28

2.01

M 355  
20.35

M-354  
2209

M-353  
2105

M 352

M-351

M 350

M 349

M 348

M 347

M 346

5

344

343

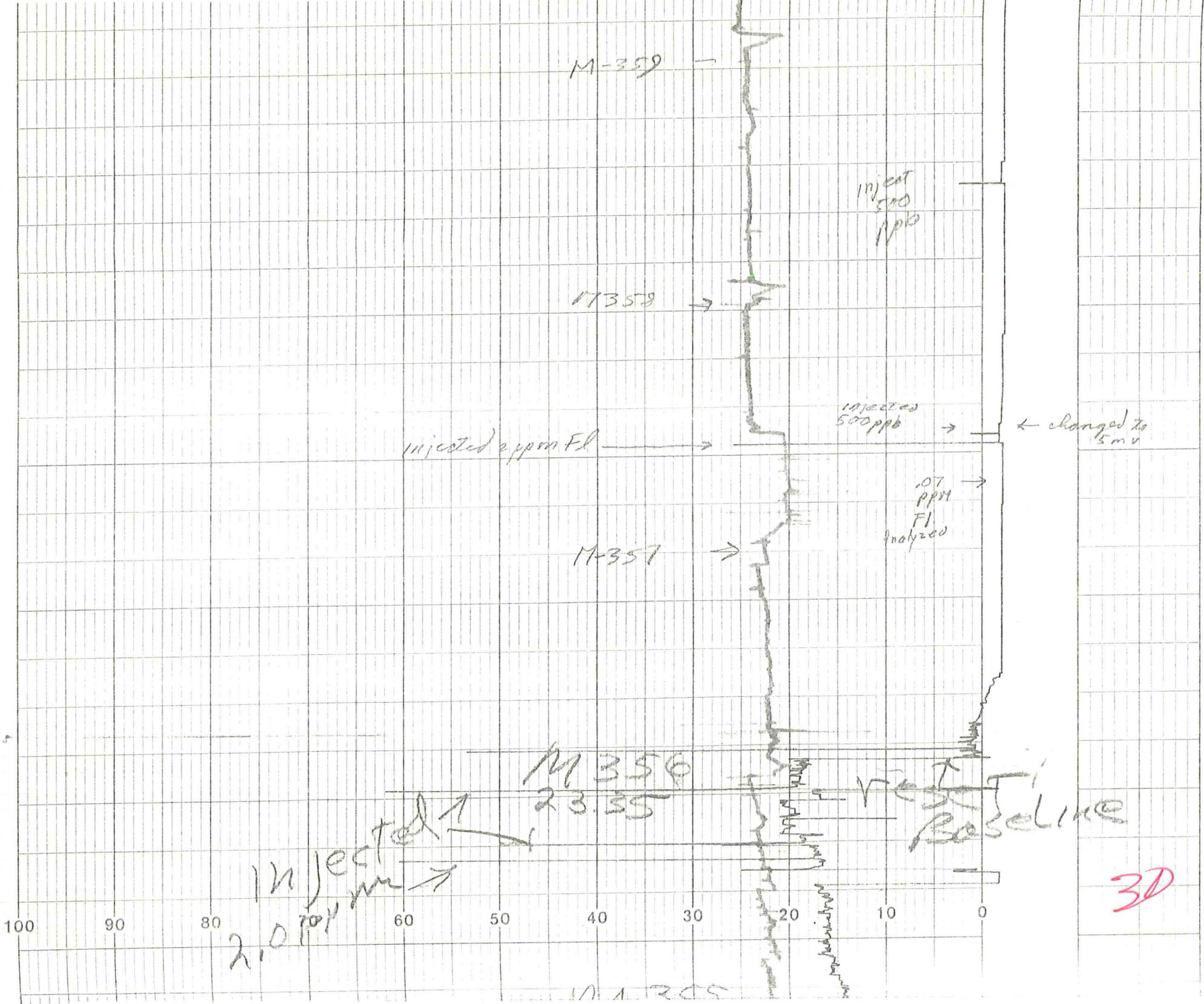
342

M 341

340

Black Pen  
is Fluorescein

29



100 90 80 70 60 50 40 30 20 10 0

M361

damned if I know

M360

31



dry  
flow rate stops  
temp not used  
if any difference

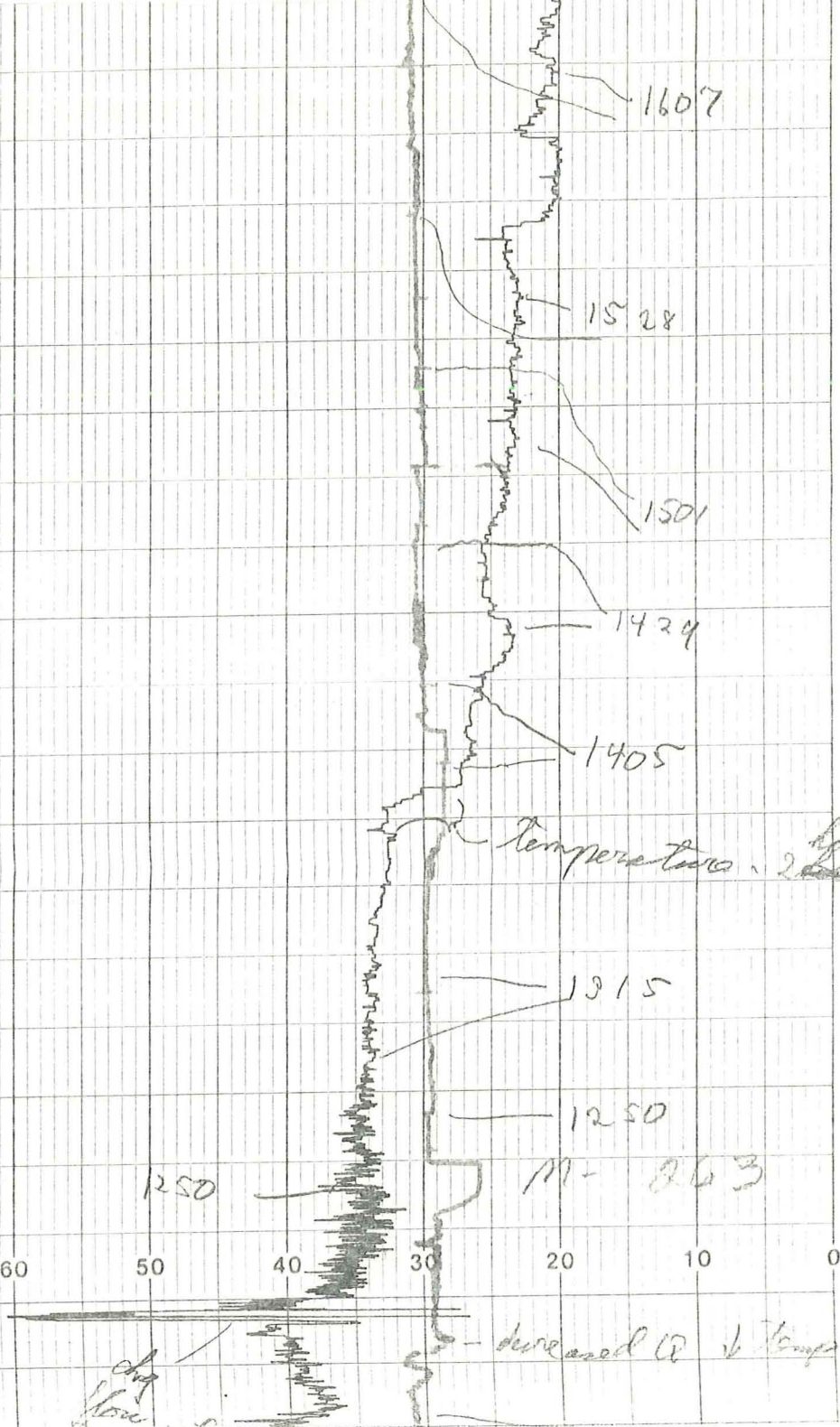
1157

1132

cht 106

11/11/11

100 90 80 70 60 50 40 30 20 10 0



1607

1528

1501

1424

1405

Temperature - 2 days - 1 loss cycle

1315

1250

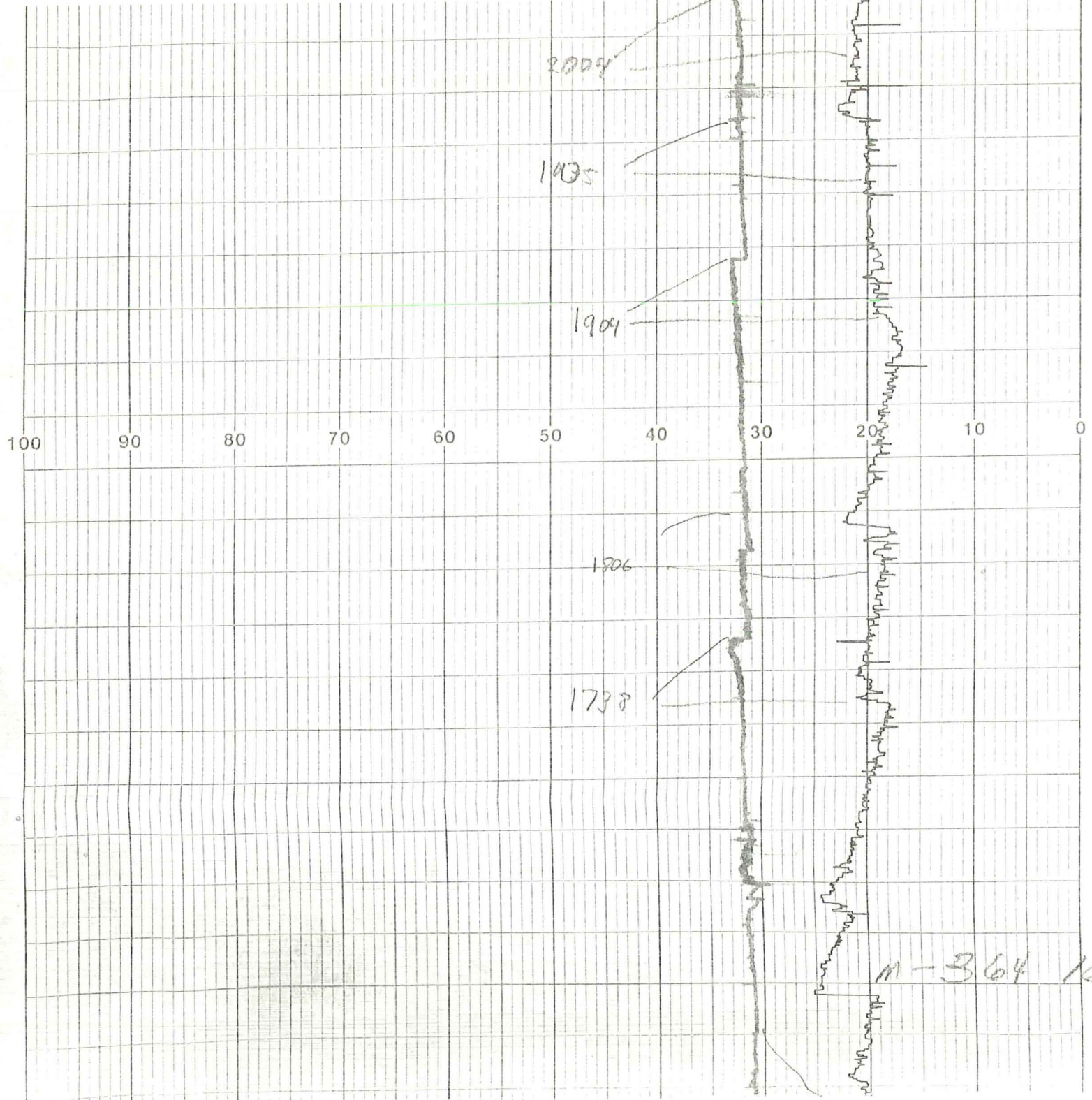
M- 263

1250

dry flow

decreased LR ↓ Temp 2000

33



2009

1935

1904

1806

1798

100 90 80 70 60 50 40 30 20 10 0

M-364 1635 10/23/80 34

Cooling water 23:40  
Temperature Change

2035  
2085  
m. 265

35

100 90 80 70 60 40 30 20 10 0

m366  
0035  
15/24/82

Cooling water 23.40  
Temperature of water (C) at 100

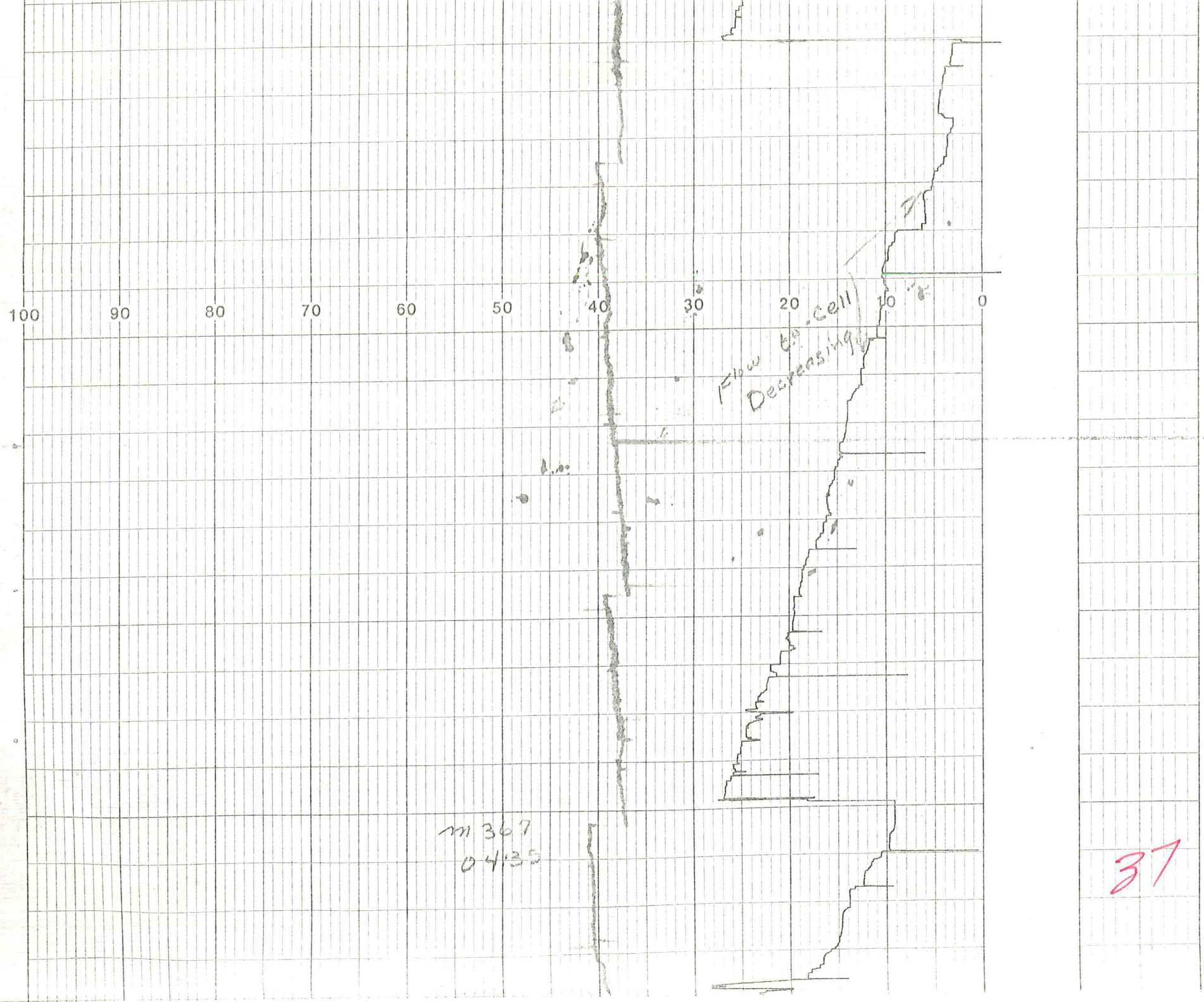
36

100 90 80 70 60 50 40 30 20 10 0

Flow to cell  
Decreasing

m 367  
04:35

37

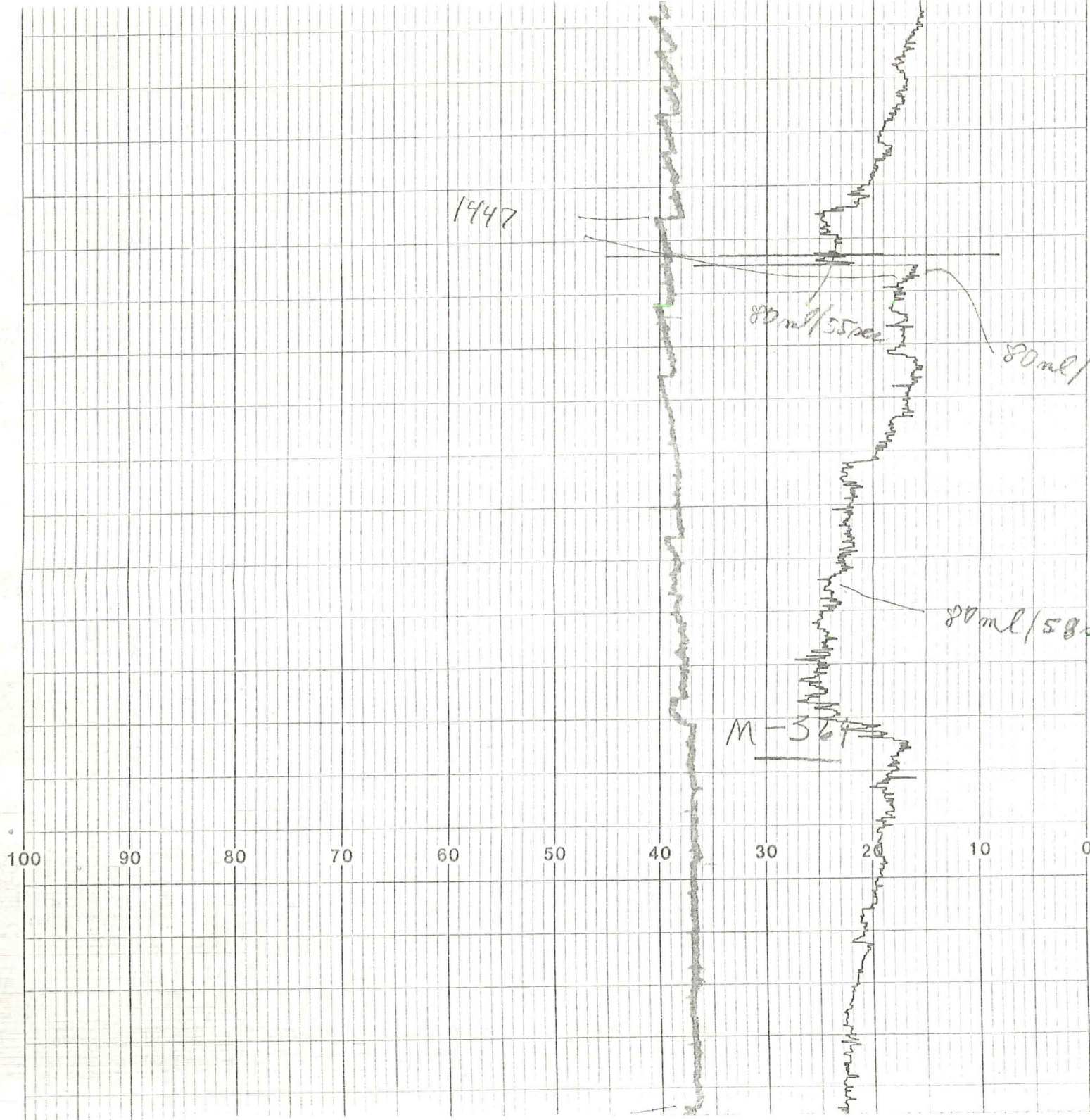


1127  
OCT 24

M-368B

8000 0832

M-368



1447

80 ml/55 sec

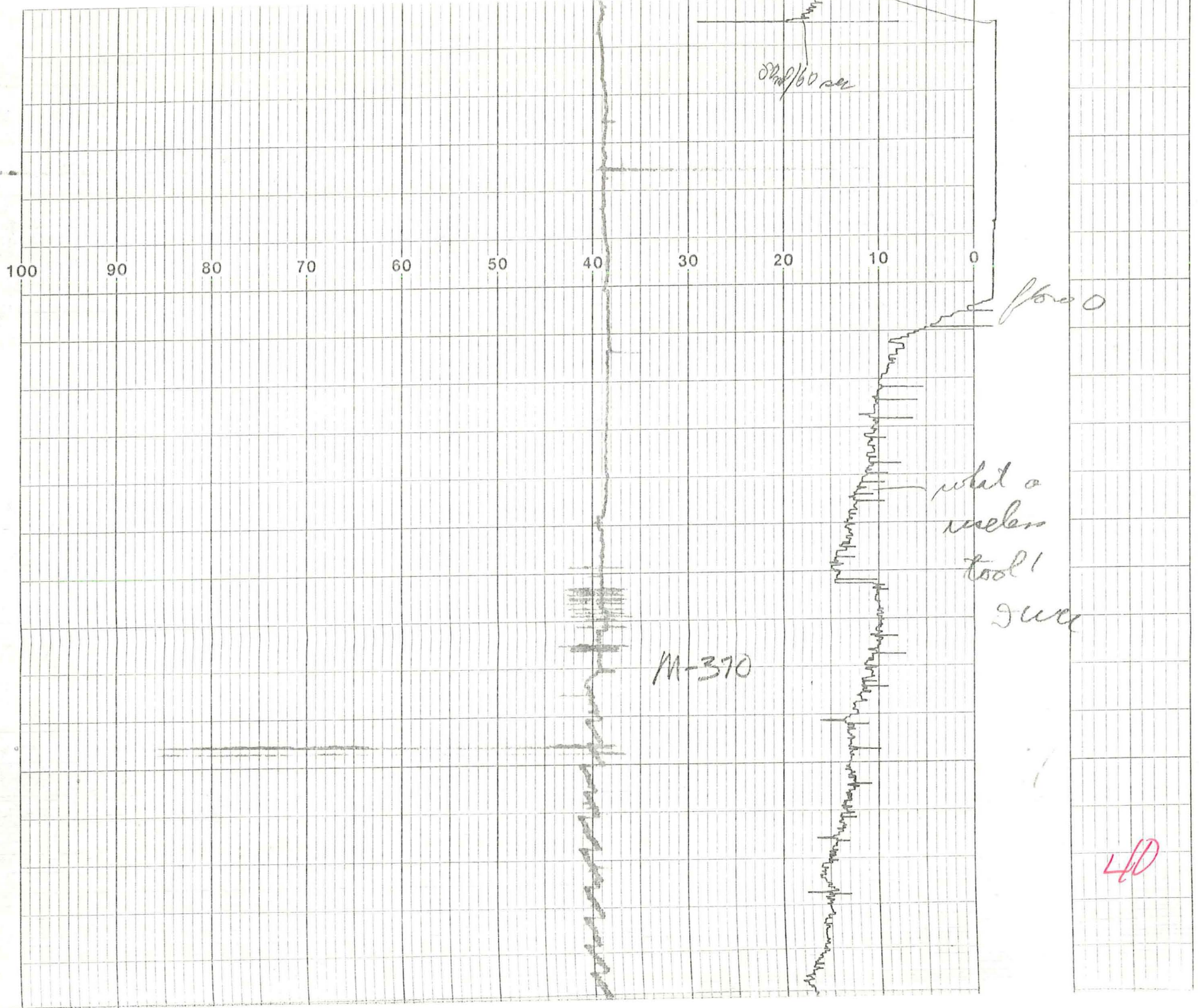
80 ml/90 sec

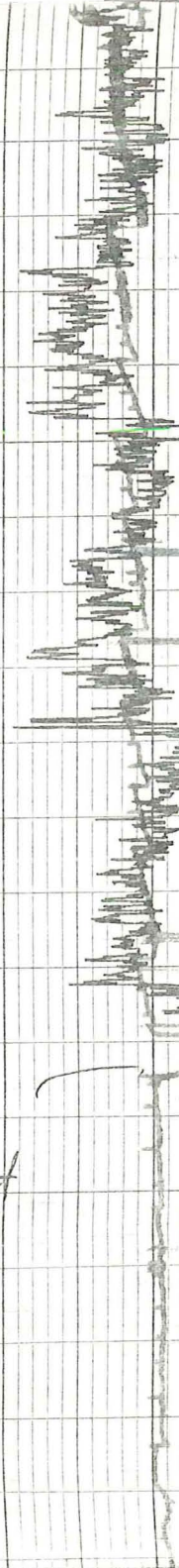
80 ml/58 sec

M-367

39







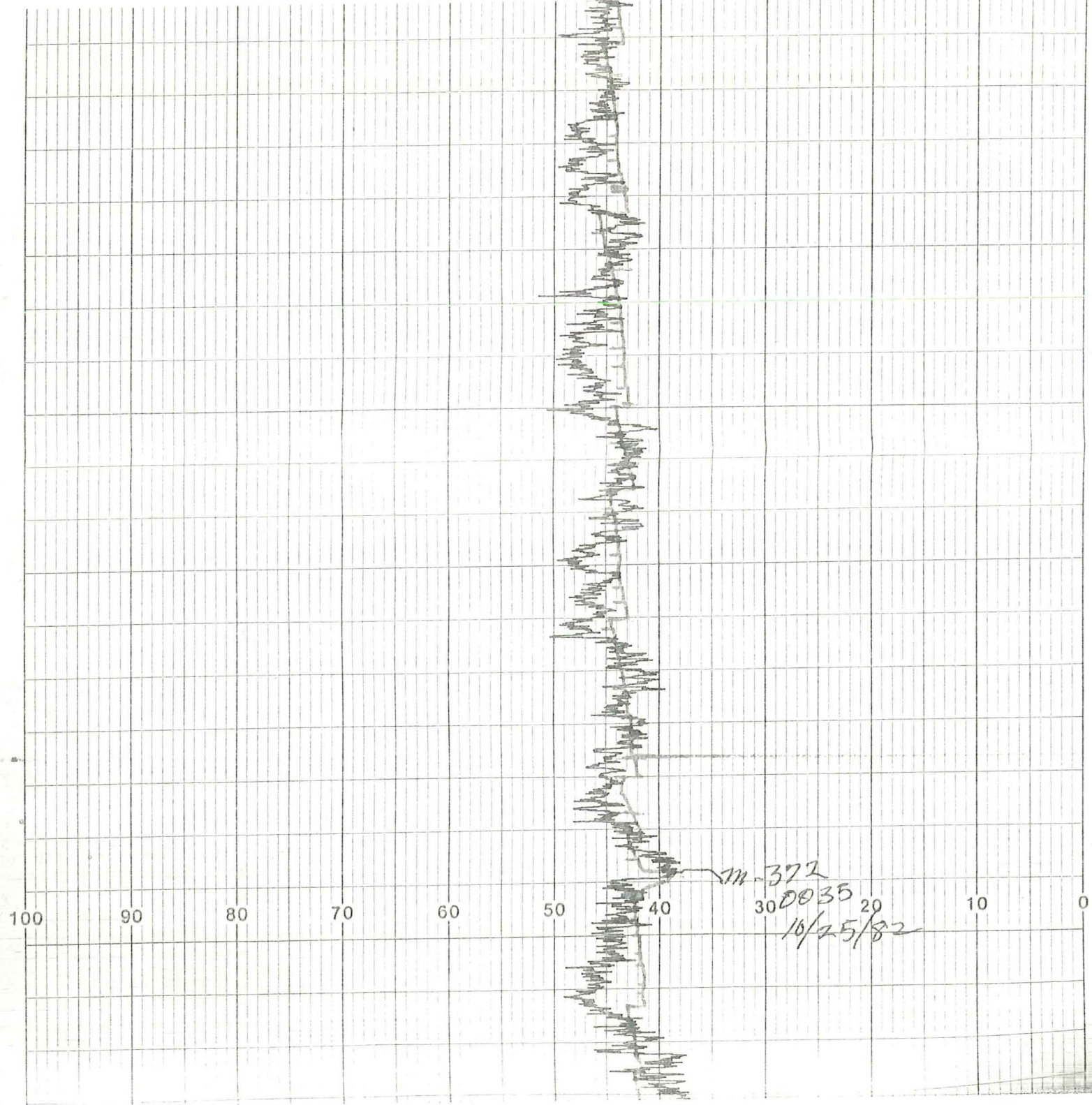
Higher water Flow in Fluorometer Tubing  
(should be more useful than a dead instrument)

10-24-82  
m 321  
20:35  
multiclement

Small water Flow  
gradually stops

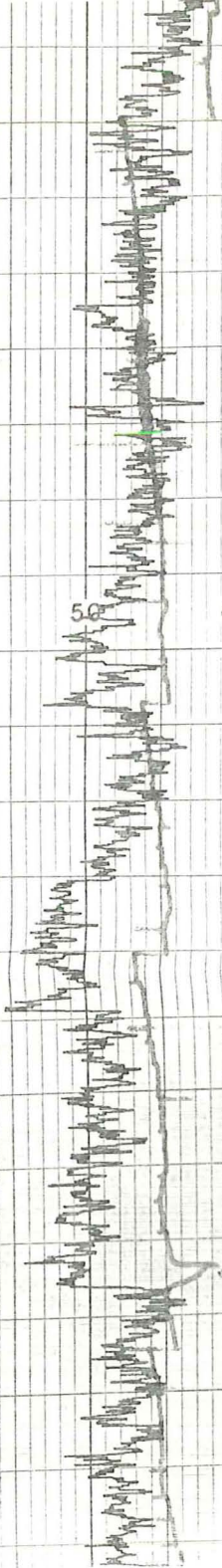
1936

41



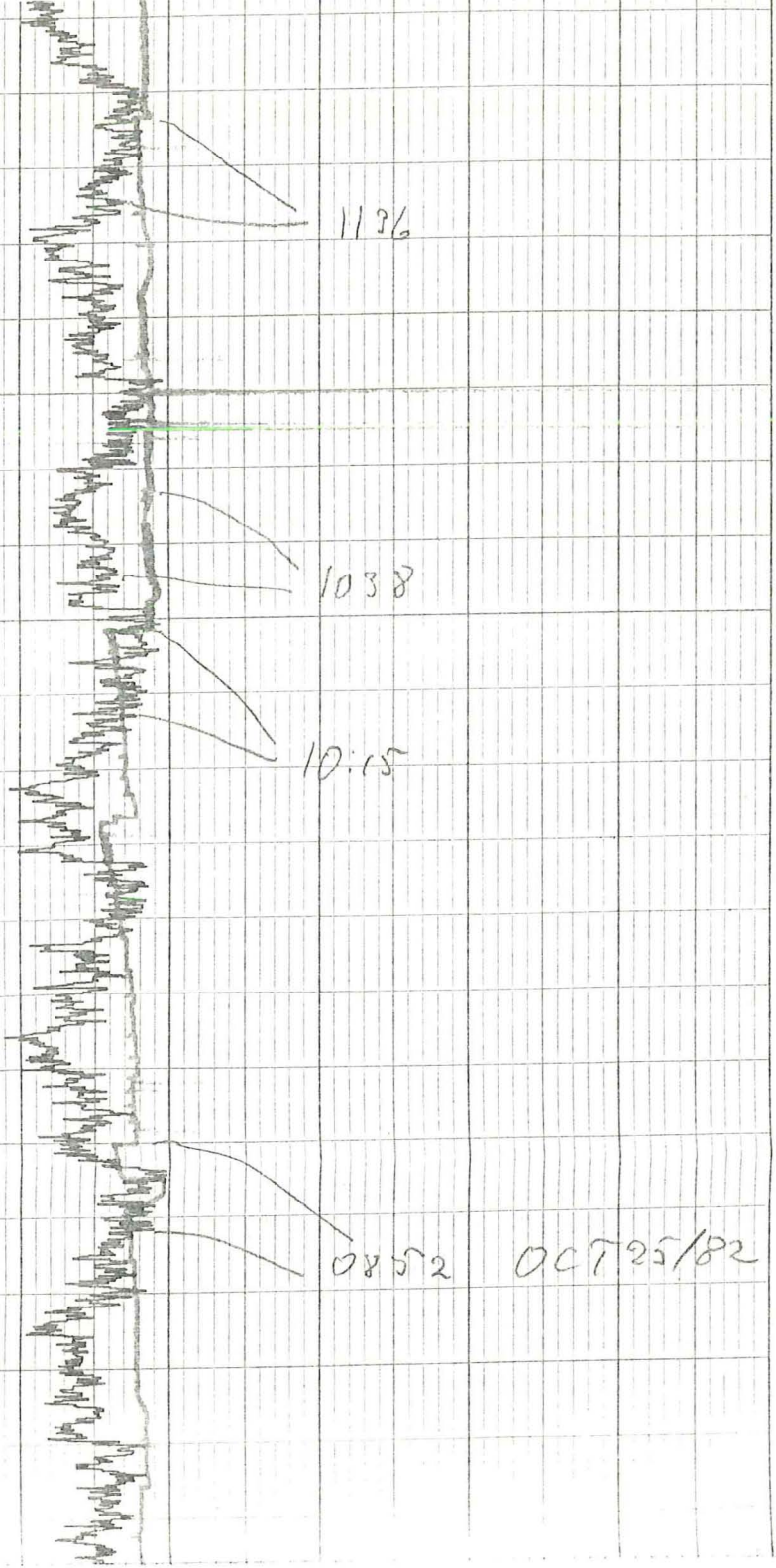
42

100 90 80 70 60 50 40 30 20 10 0



M.373  
04-35

43



11 3/6

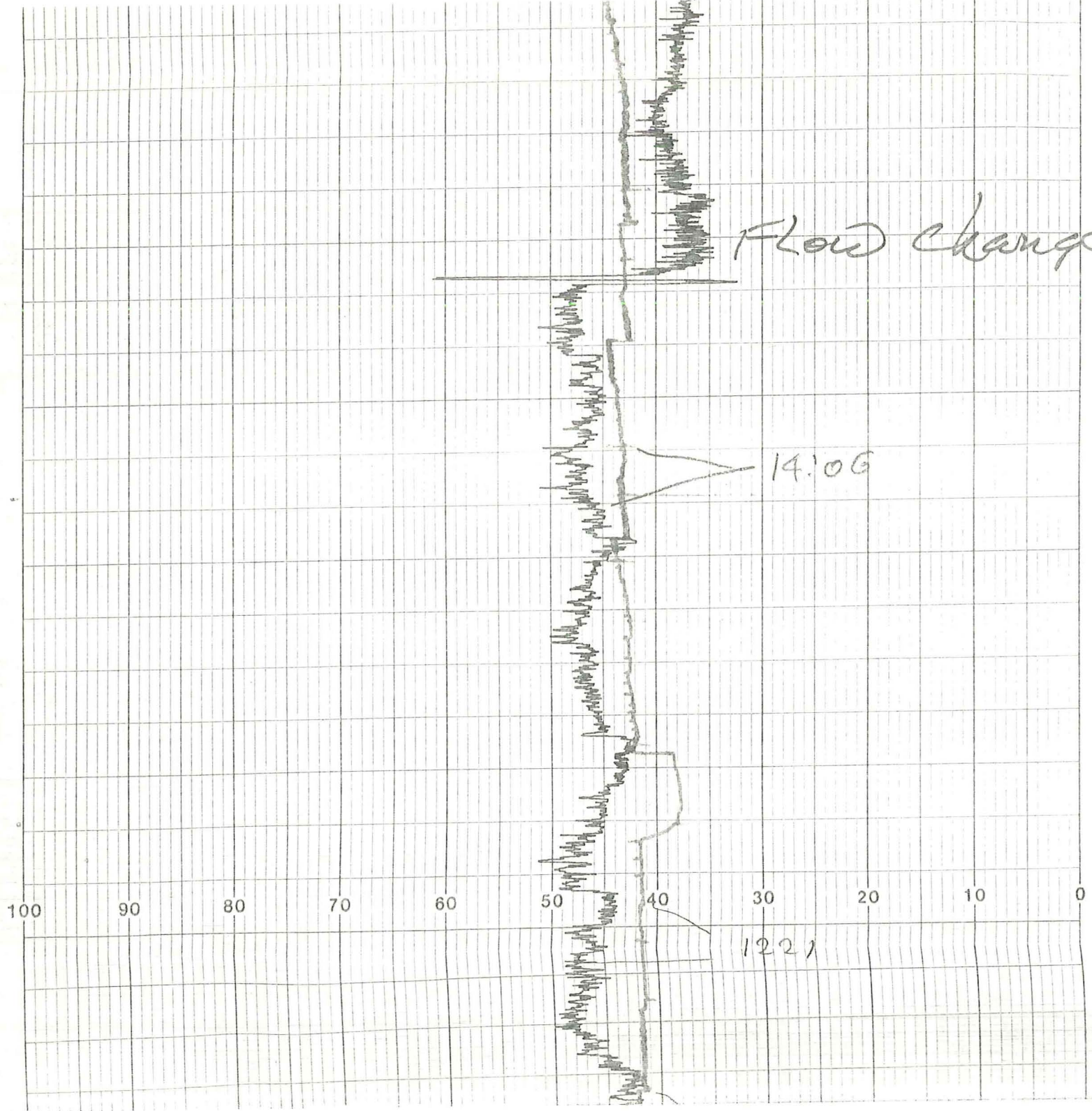
1038

10:15

0852

OCT 25/82

44



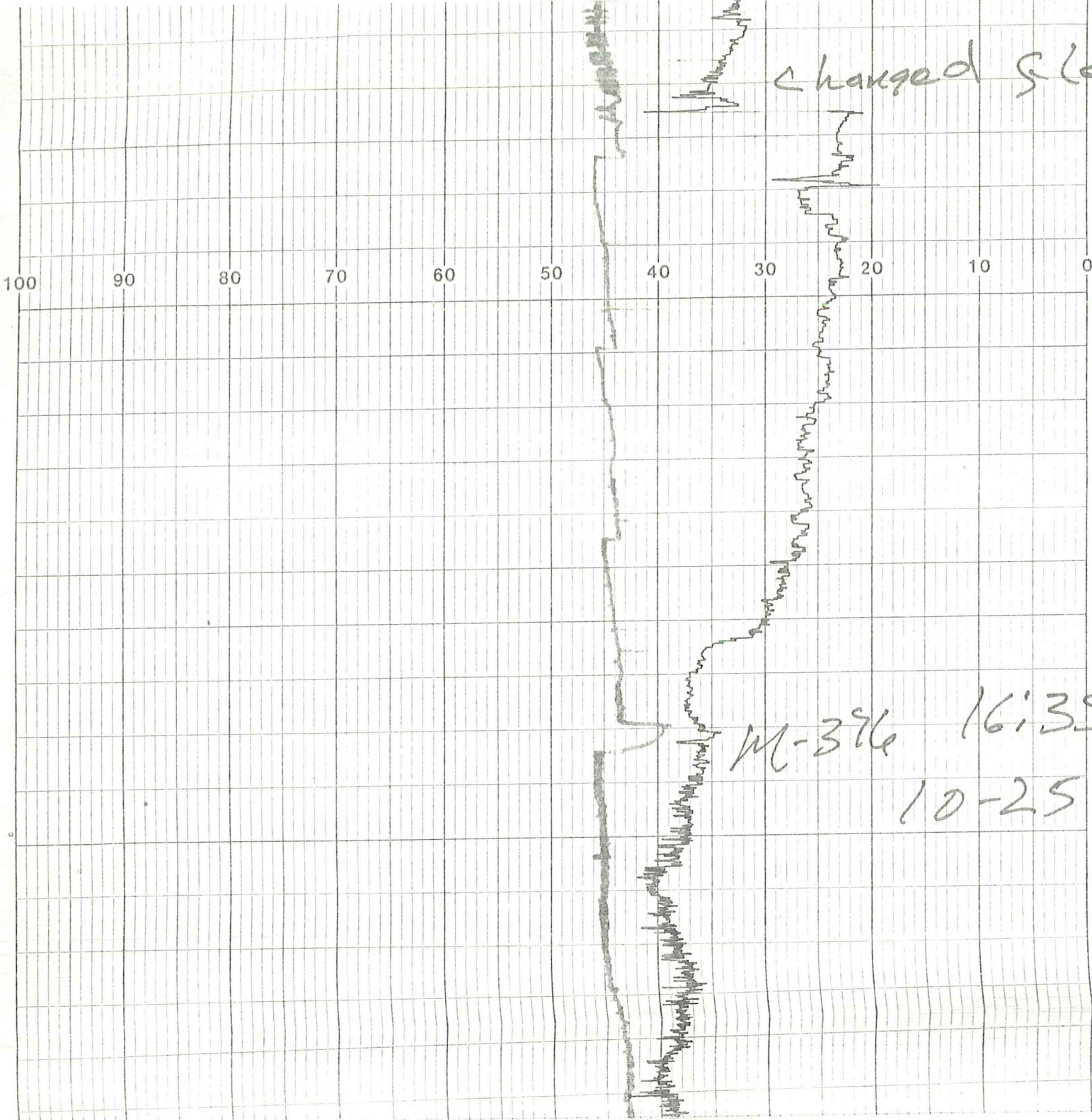
Flow change

14:06

1221

45

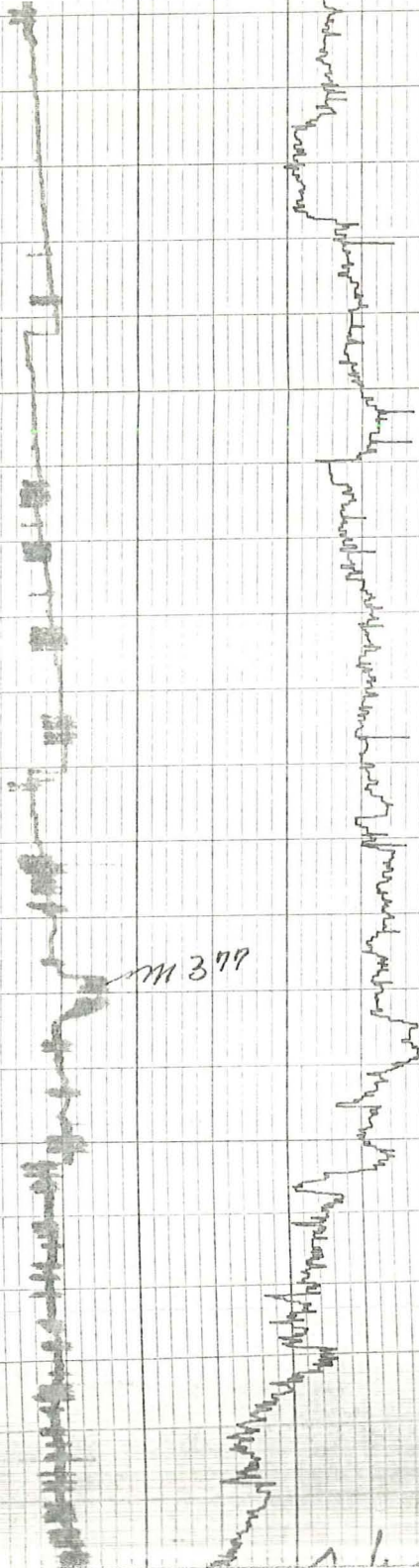
100 90 80 70 60 50 40 30 20 10 0



changed flow

M-396 16:35  
10-25-82

46

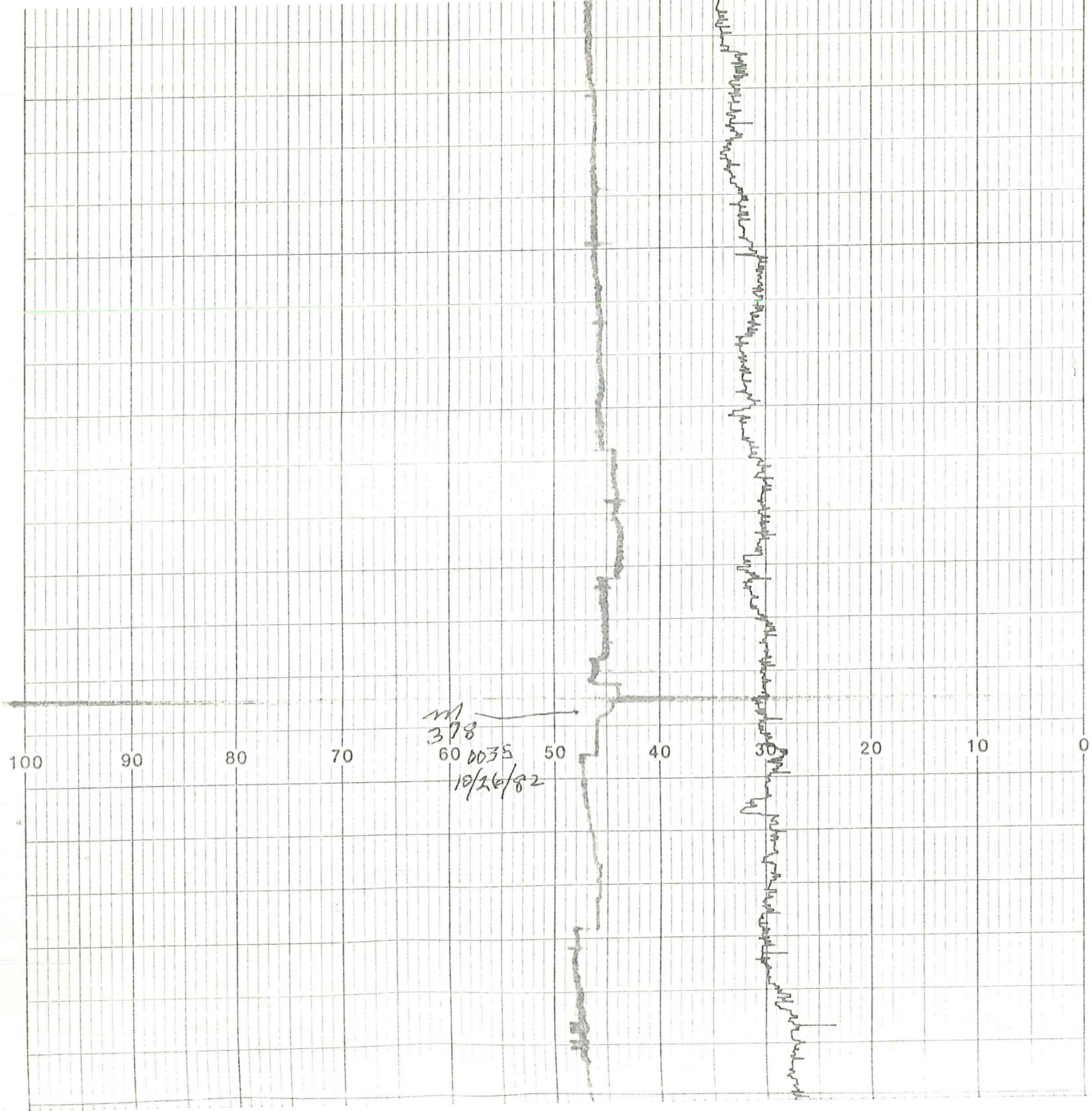


M 377

Standard Clock

47





378  
60 0035  
10/26/82

48

100 90 80 70 60 50 40 30 20 10 0

m-379

49

M380  
8:35  
12-26-82

Flowchange

50

100 90 80 70 60 50 40 30 20 10 0

M-385

12.35



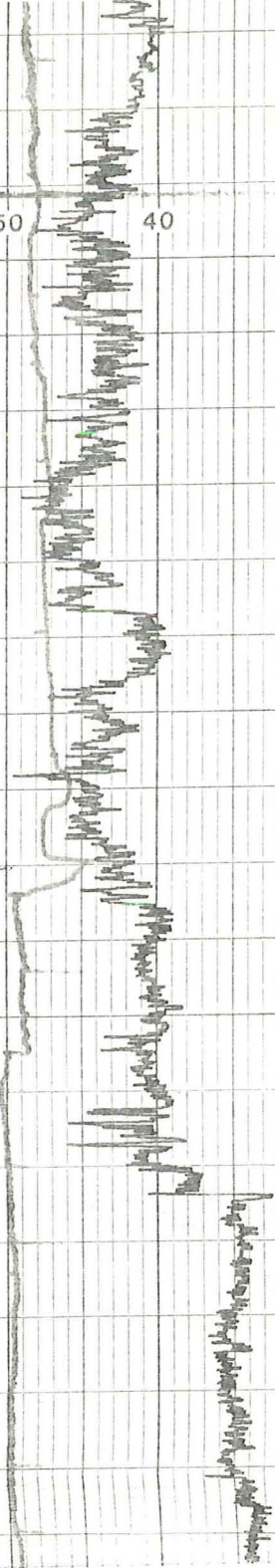
51

100 90 80 70 60 ~~50~~ 50 40 30 20 10 0

m382  
multielement  
10/26/82  
16:35

changed flow

52

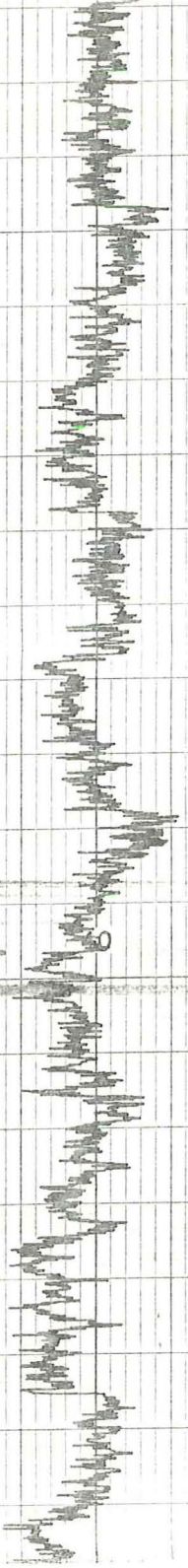


771383  
26'35

53

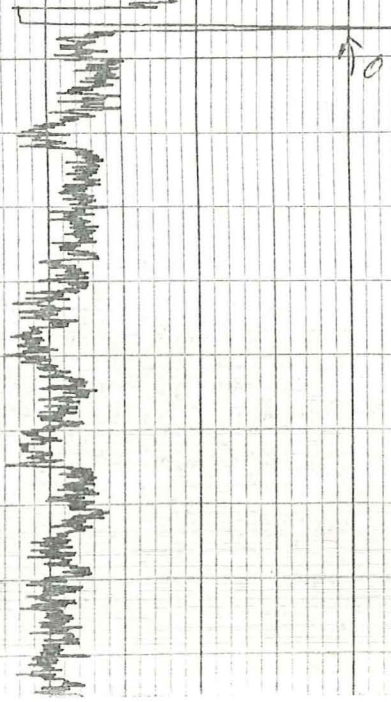
100 90 80 70 60 50 40 30 20 10 0

77-384  
multiplement  
00:35  
10/27/82



54

100 90 80 70 60 50 40 30 20 10 0

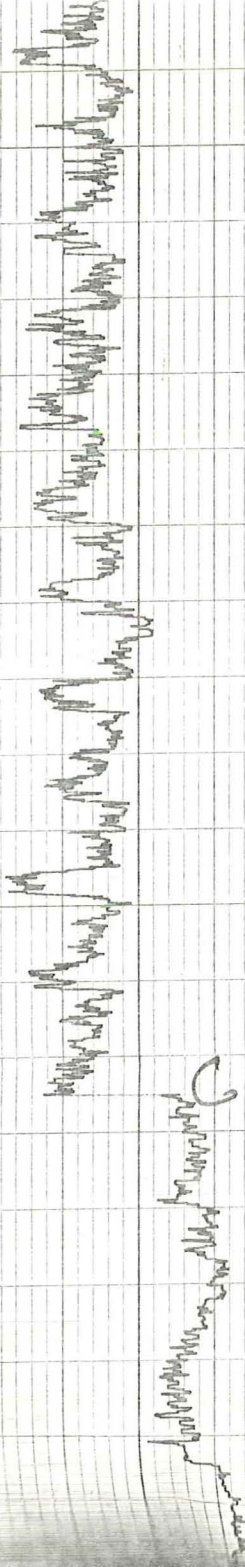


↑ 0435 Samples

52



M-386  
8185  
10:27



changed  
places

56

100 90 80 70 60 50 40 30 20 10 0

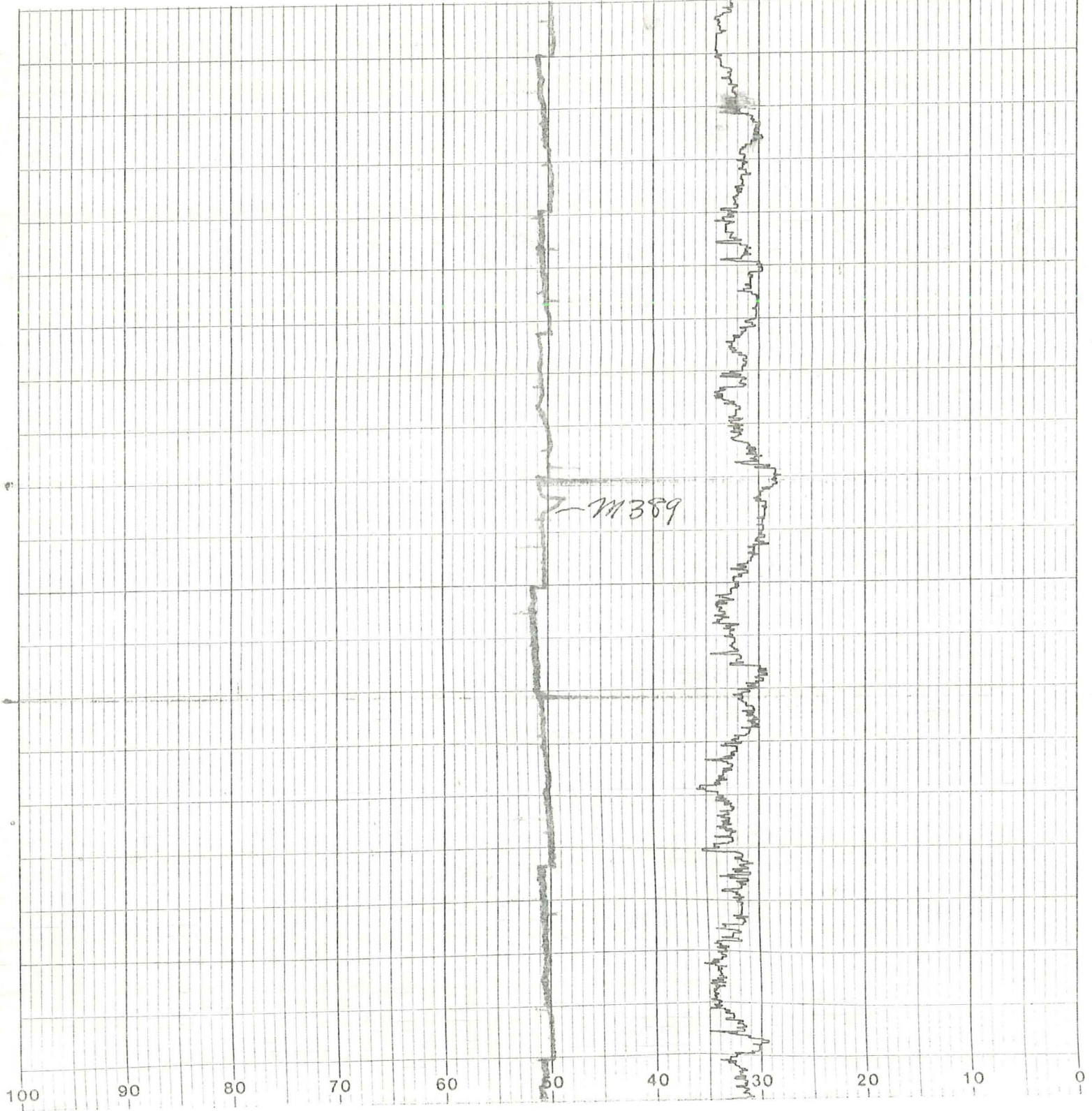
M367

57

100 90 80 70 60 50 40 30 20 10 0

M 388  
multi  
1035  
10/27/82

5B

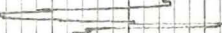


59

100 90 80 70 60 50 40 30 20 10 0

0035  
water sample

60



0435  
Samples

61

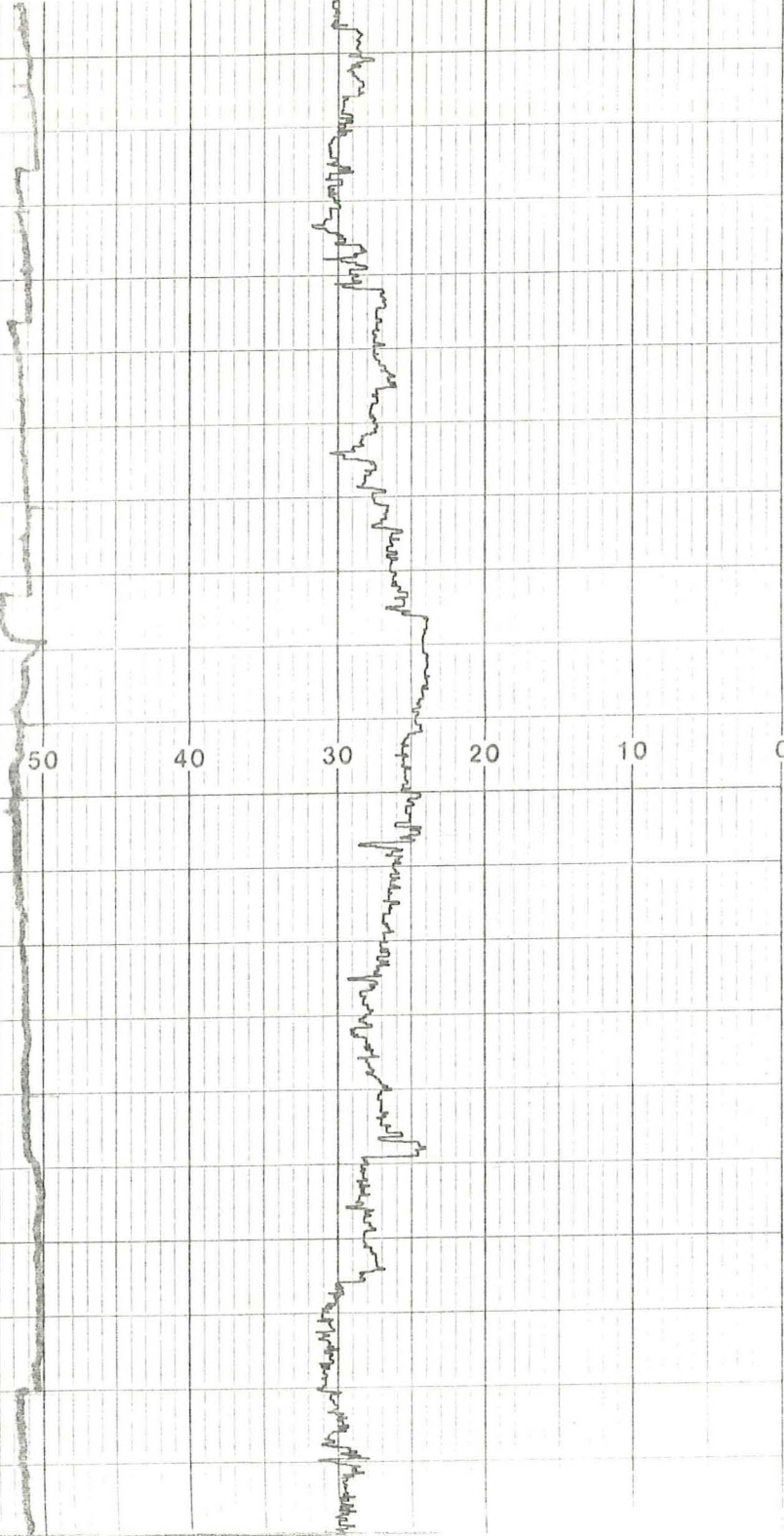
M 392  
N Multiement  
0835  
10/28/82

100 90 80 70 60 50 40 30 20 10 0

62

100 90 80 60 50 40 30 20 10 0

M393  
10/28/82



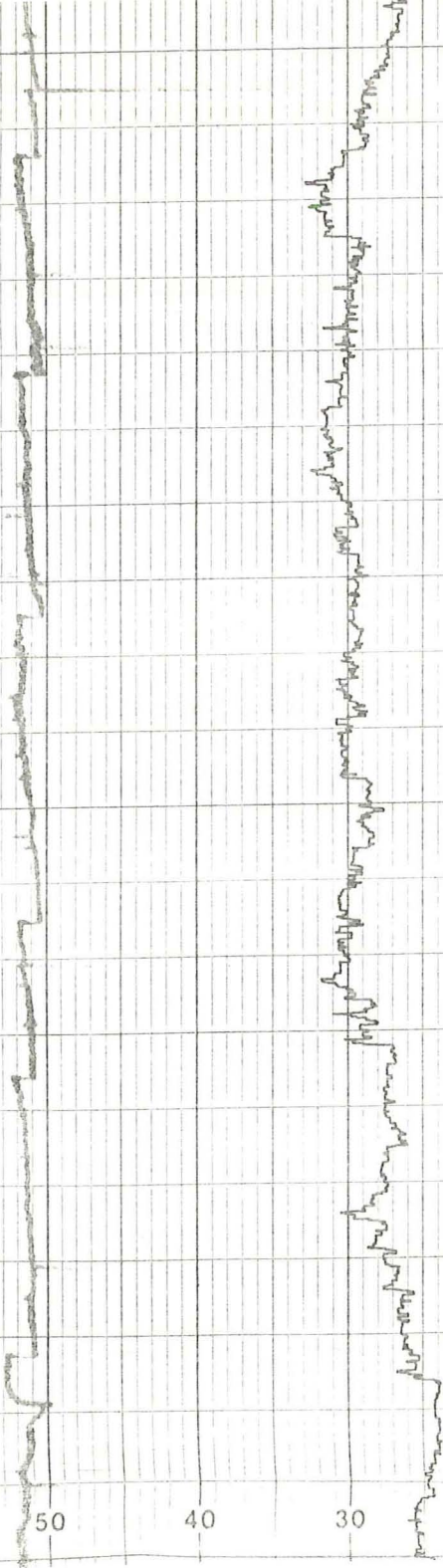
63



100 90 80 70 60 50 40 30 20 10 0

71393

10/28/82



64

20:35  
M 395

100 90 80 70 60 50 40 30 20 10 0

M-394

65

00:35  
M-396  
P.K.



66

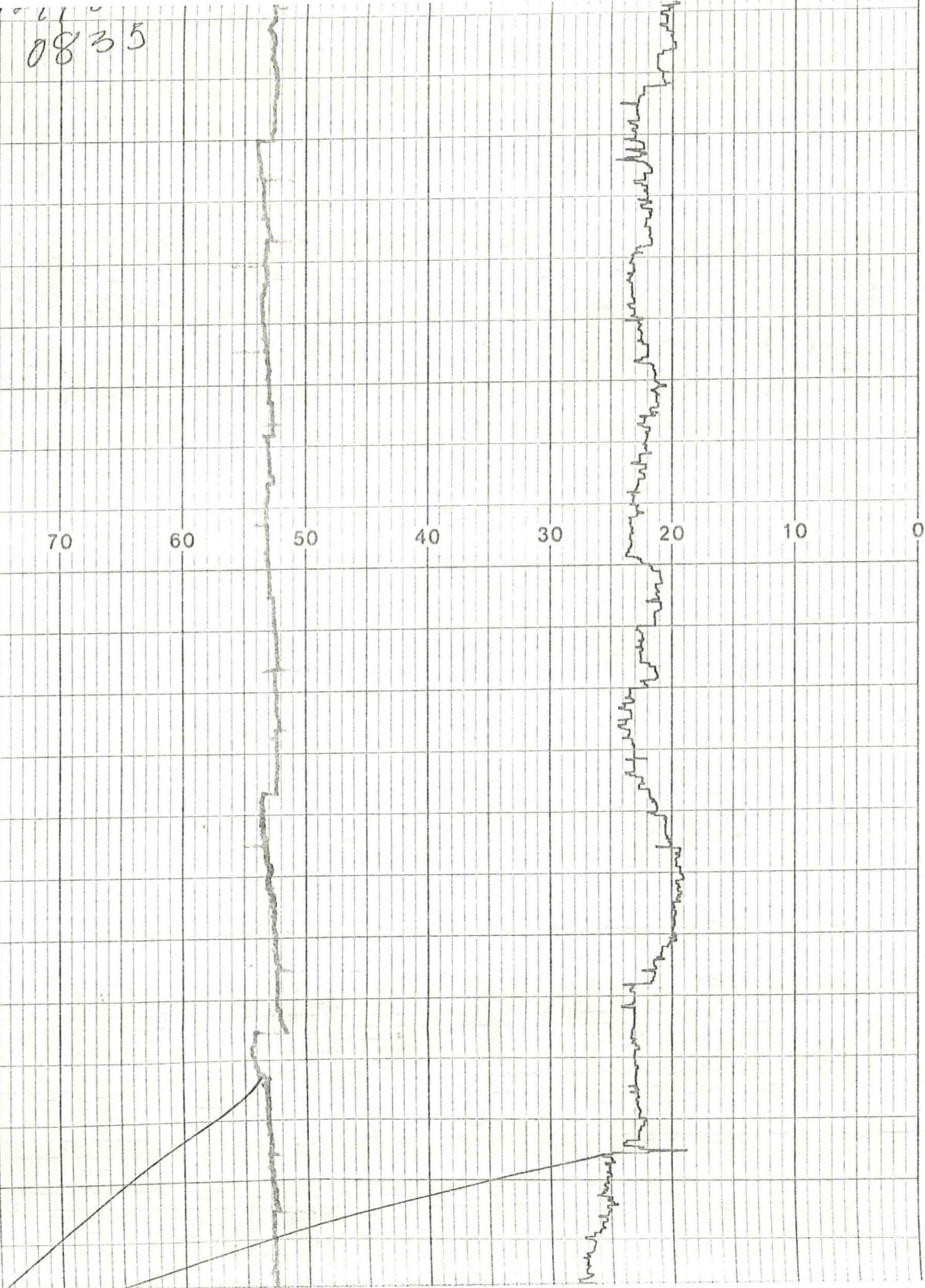
04.35  
11397

100 90 80 70 60 50 40 30 20 10 0

67

14° 21' 00"  
0835

100 90 80 70 60 50 40 30 20 10 0



68

M-398  
multielement  
10/29/82  
0835

69

100 90 80 70 60 50 40 30 20 10 0

m 399

Water Flow  
Change

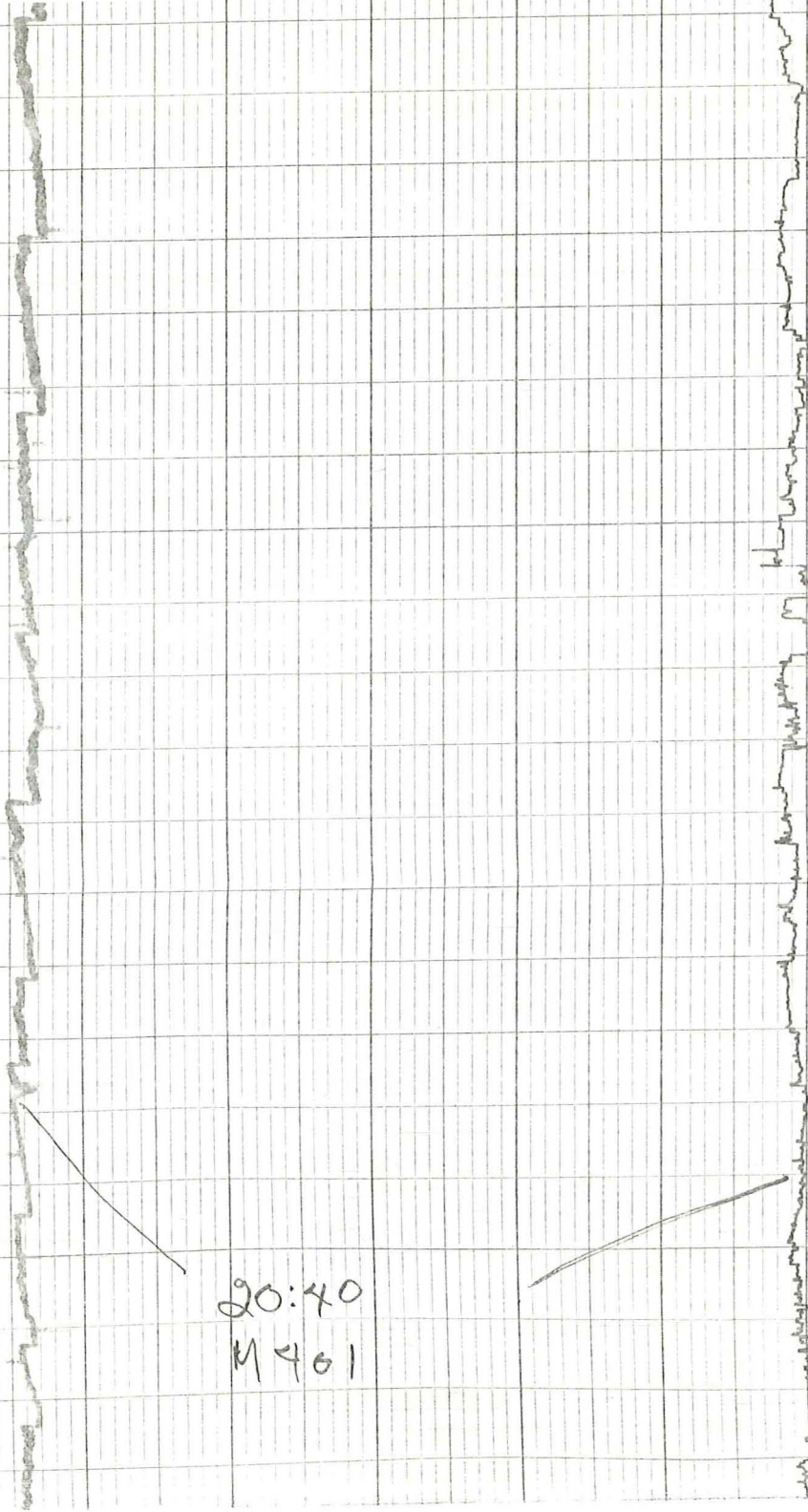
70

100 90 80 70 60 50 40 30 20 10 0

M-400  
multi

71





20:40  
M461

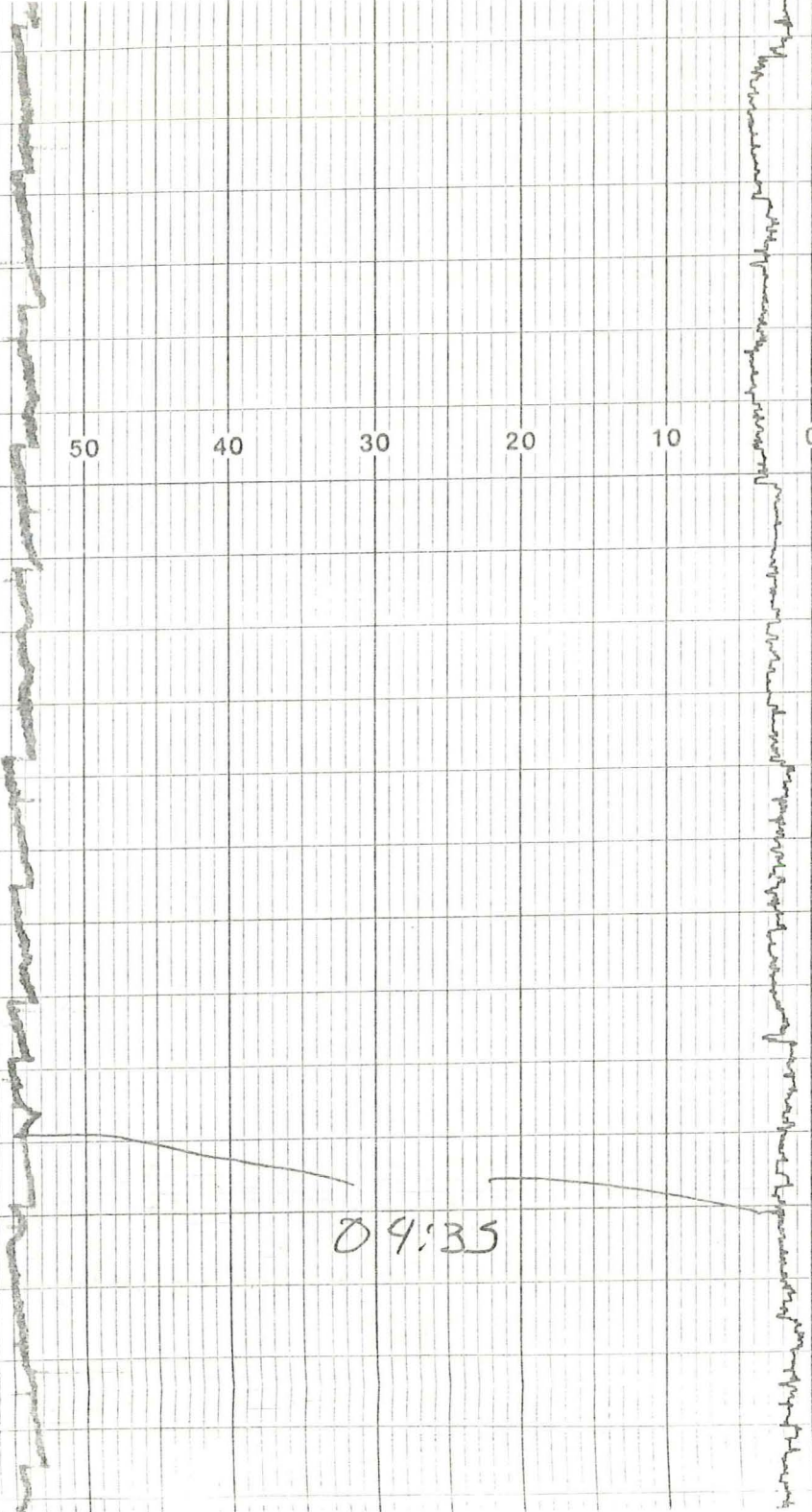
72

100 90 80 70 60 50 40 30 20 10 0

00:33  
10/30/82  
Sample taken in 402

73

100 90 80 70 60 50 40 30 20 10 0



04:35

74

RM 404

08:35

10/30/82

15

100

90

*M-405*

60

50

40

30

20

10

0

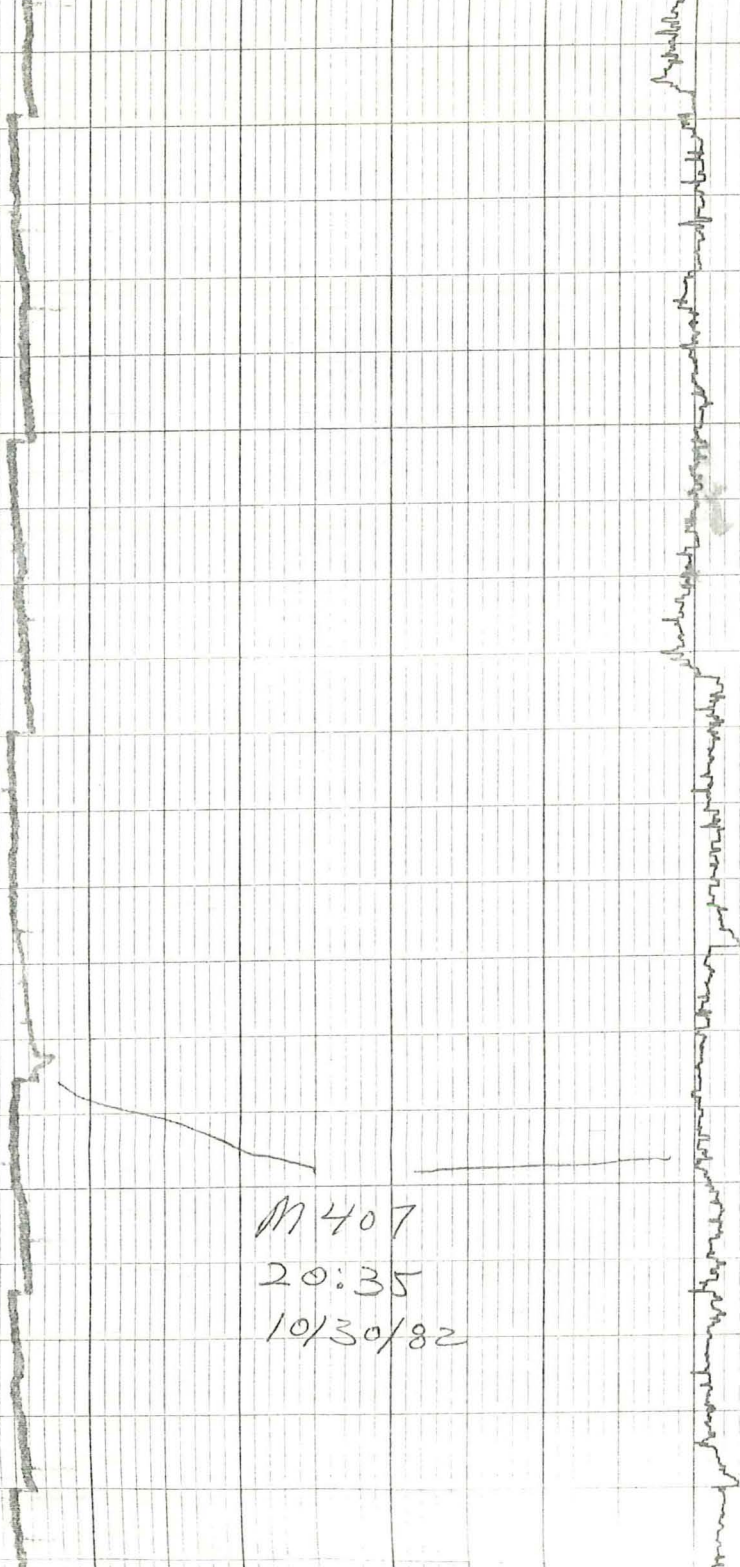
*28*

100 90 80 70 60 50 40 30 20 10 0

m 406  
multiement  
16:35  
10/30/82



77



M 407  
20:35  
10/30/82

18

DAY Lgt SAVE

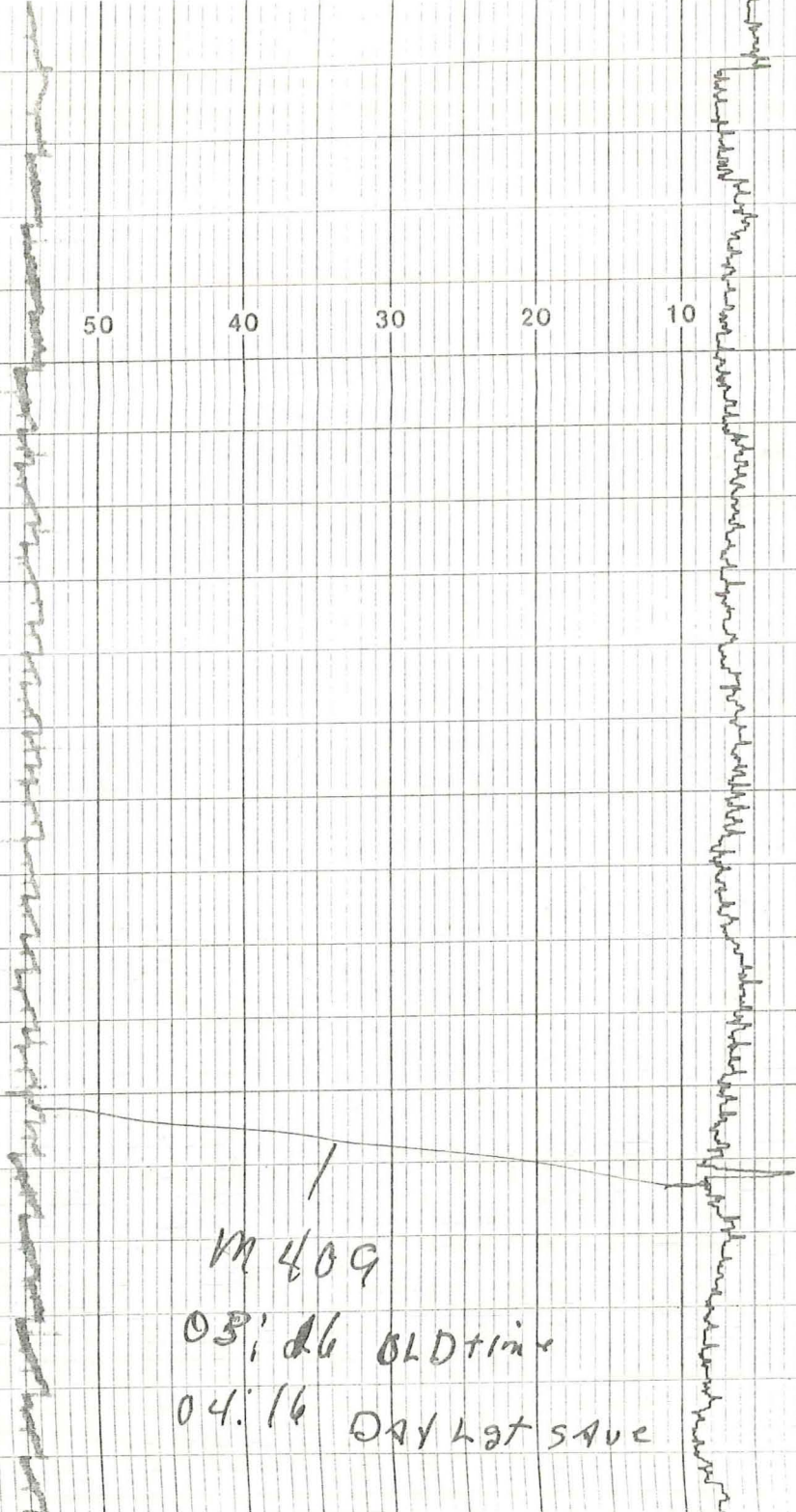
100 90 80 70 60 50 40 30 20 10 0

00:74  
10/31/82  
M 408

79



100 90 80 70 60 50 40 30 20 10 0



M 409  
03:26 OLD time  
04:16 DAY Lgt save

80

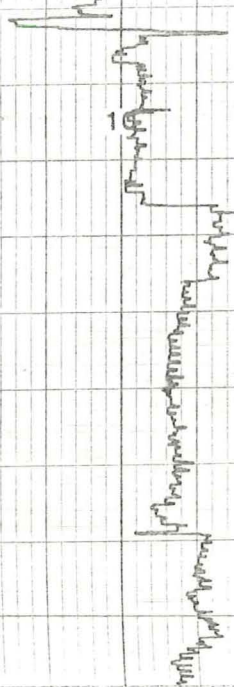
M 410  
08:35 Old Time  
07:35 New Time

Water Flow  
Adjustments

81

100 90 80 70 60 50 40 30 20 10 0

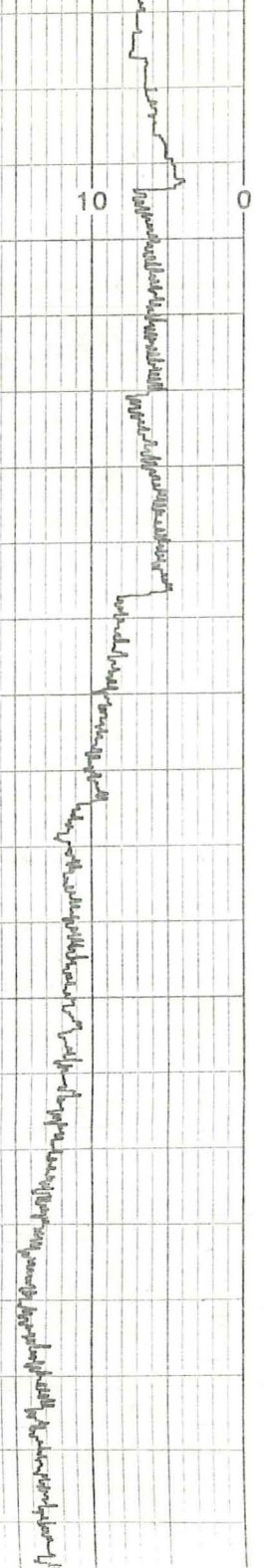
M. 411



82

100 90 80 70 60 50 40 30 20 10 0

M-412  
10/31/82  
1535  
Time  
change



83

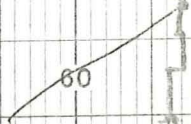
M413  
19:35



78

100 90 80 70 60 50 40 30 20 10 0

M419  
23:35



85

100 90 80 70 60 50 40 30 20 10 0



03:35

80

M-416  
07:35  
11/1/82

07:32

87



Recorder 058  
@ 13:30 hrs. 11/1/82

Well #1

Conductivity

Fluorometer

M 417  
12:00  
11/1/82  
End Test 20

100 90 80 70 60 50 40 30 20 10 0

88