

COMPENSATED NEUTRON LOG

| | | | |
|---------------------------------------|---------------------------------|-------------------------------|--|
| FILING NO. 7553-173 | COMPANY <u>MAURICE L. BROWN</u> | | |
| B | WELL <u>YOST #1</u> | | |
| | FIELD <u>ALFRED NORTH</u> | | |
| | COUNTY <u>COMANCHE</u> | STATE <u>KANSAS</u> | |
| Location: <u>CORNER OF SW - SE</u> | | Other Services: <u>DIL</u> | |
| Sec. <u>26</u> | Twp. <u>30S</u> | Rge. <u>18W</u> | |

| | | |
|----------------------------------|--------------------------------|-------------------------|
| Permanent Datum: <u>GL</u> | Elev.: <u>2182</u> | Elev.: K.B. <u>2190</u> |
| Log Measured from <u>KB</u> | <u>8</u> Ft. Above Perm. Datum | D.F. <u>2187</u> |
| Drilling Measured From <u>KB</u> | | G.L. <u>2182</u> |

| | | |
|------------------------|---------------------------------|----------------|
| Date | <u>10-9-80</u> | FIELD PRINT |
| Run No. | <u>ONE</u> | |
| Depth-Driller | <u>5056</u> | |
| Depth-Logger | <u>5053'</u> | |
| Bottom logged interval | <u>5052'</u> | |
| Top logged interval | <u>2400</u> | |
| Type fluid in hole | <u>STARCH</u> | |
| Density | <u>19.7</u> <u>72</u> | |
| pH | <u>7</u> <u>13.2</u> | |
| Max rec. temp., deg F. | <u>121</u> °F | |
| Source of Samples | <u>FLOW LINE</u> | |
| Rm @ Meas. Temp. | <u>.2</u> @ <u>80</u> °F | |
| Rmf @ Meas. Temp. | <u>-.12</u> @ <u>74</u> °F | |
| Rmc @ Meas. Temp. | <u>-.29</u> @ <u>74</u> °F | |
| Source Rmf | <u>M</u> | |
| Source Rmc | <u>M</u> | |
| Time | <u>1200</u> | |
| End Circulation | <u>1656</u> | |
| Logger on Bottom | | |
| Recorded By | <u>NATARAJAN</u> | |
| Witnessed By | <u>MR. PALMER / MR. ROADERS</u> | |

| Bore-Hole Record | | | | | Casing Record | | | |
|------------------|-------|--------|------|------|---------------|------|------|------|
| Run No. | Level | Bit | From | To | Size | Wgt. | From | To |
| ONE | FULL | 12 1/4 | KB | 568 | 8 5/8 | - | KB | 568' |
| | | 7 3/8 | 568 | 5856 | | | | |

FOLD HERE

EQUIPMENT DATA

| Run No. | Logging Unit | Location | Gamma Ray | | Compensated Density | | Compensated Neutron | | | |
|---------|--------------|----------|-----------|------------|---------------------|------------|---------------------|------------|-------|------|
| | | | Tool No. | Source No. | Tool No. | Source No. | Tool No. | Source No. | | |
| ONE | 7553 | LIBERAL | 4232 | 2295 | CSU169 | CE137 | 200 | 9146 | 71-2A | AMBE |

CALIBRATION DATA

| Run No. | Gamma Ray | | Magnesium | | Aluminum | | Test Block | | Caliper | | Compensated Neutron | |
|---------|-----------|----------|-----------|-----|----------|-----|------------|----|---------|---------|---------------------|-----|
| | Bkg. cps | Std. cps | LS | SS | LS | SS | LS | SS | L. Ring | S. Ring | LS | SS |
| ONE | 35 | 145 | 1124 | 560 | 230 | 412 | - | - | 6002 | 3008 | - | 603 |

LOGGING DATA

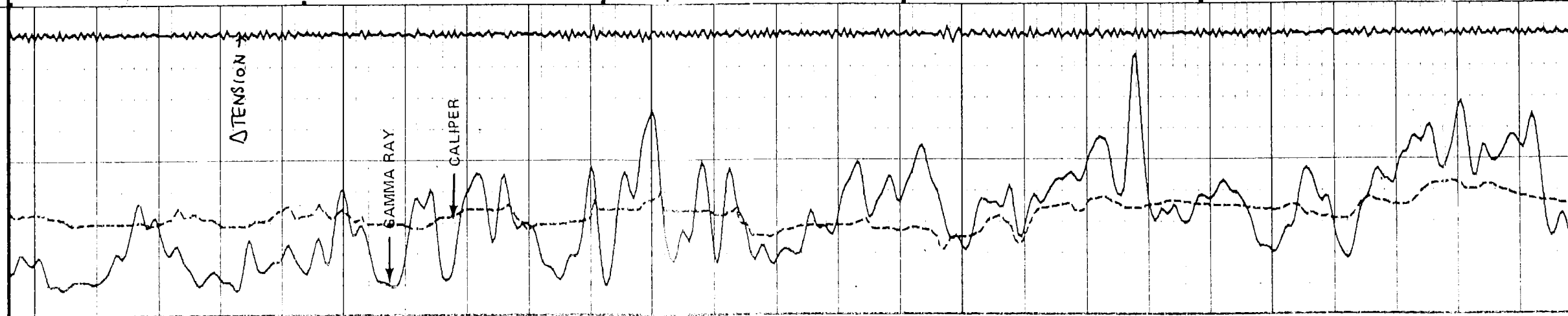
| Run No. | General | | Gamma Ray | | Compensated Density | | Compensated Neutron | | Temp. Grad. | Salinity PPM NaCl |
|---------|---------|-------|-----------|------------------|---------------------|---------------|---------------------|------------|-------------|-------------------|
| | From | To | TC | API PER LOG DIV. | Matrix Density | Fluid Density | TC | Const. "K" | | |
| ONE | 5053 | 2400' | AUTO | 15 | 2.71 | 1.0 | AUTO | 1.3 | 17100 | 47.85C |

REMARKS:

NOTICE: All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions set out in our current Price Schedule.

| | | | | | |
|----------|-------|--------|--------|---------|-------|
| 10-09-80 | 18:00 | 2395.5 | 101883 | 0099-39 | 0 |
| GR API | 150 | 300 | | | |
| Y - CAL | 16 | | | | |
| | | | | | 02400 |

GR API 150
GR API 300
Y - CAL 16



02400

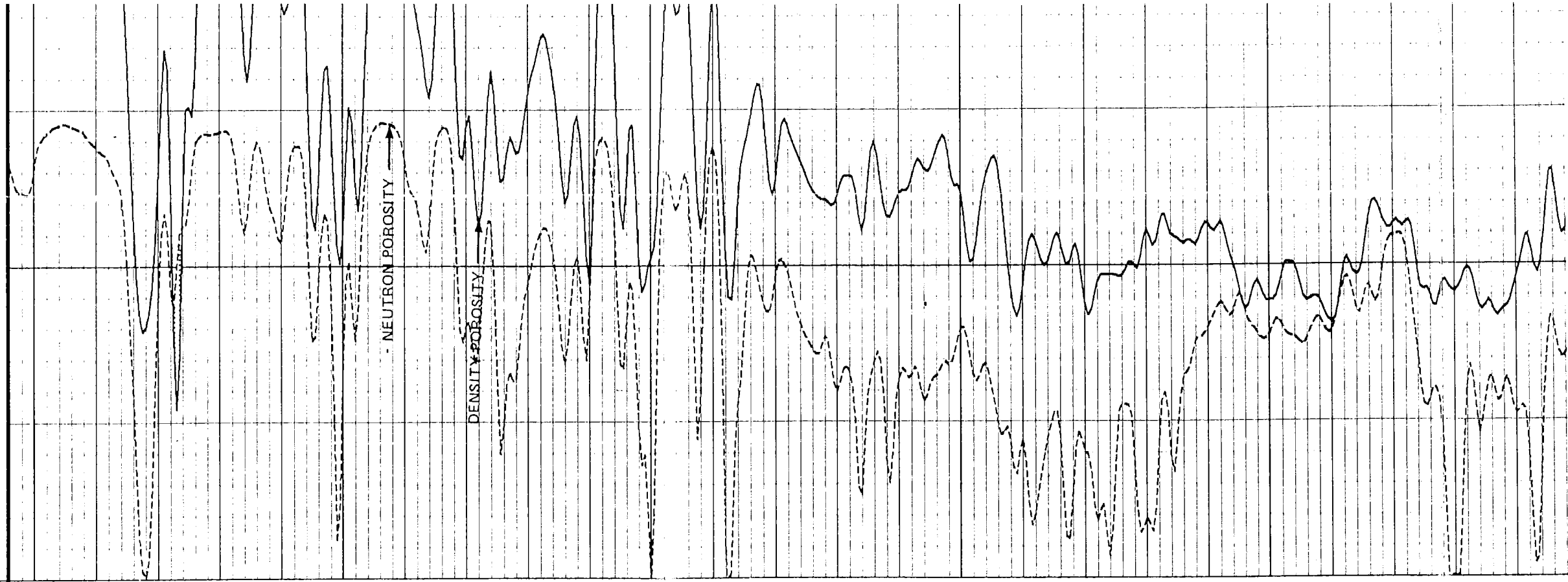
02500

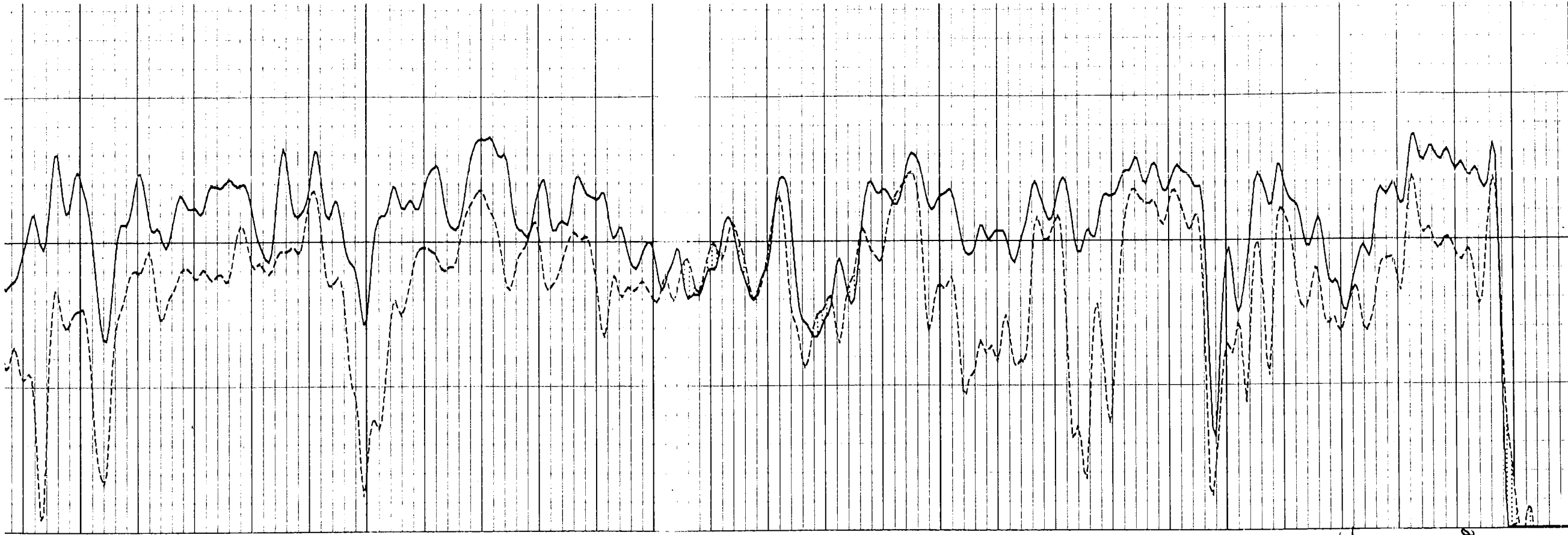
02600

02600

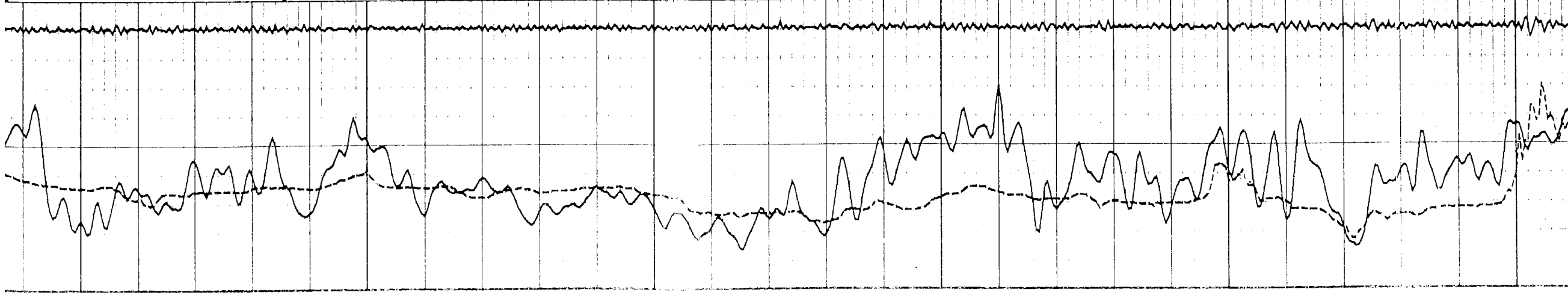
1000

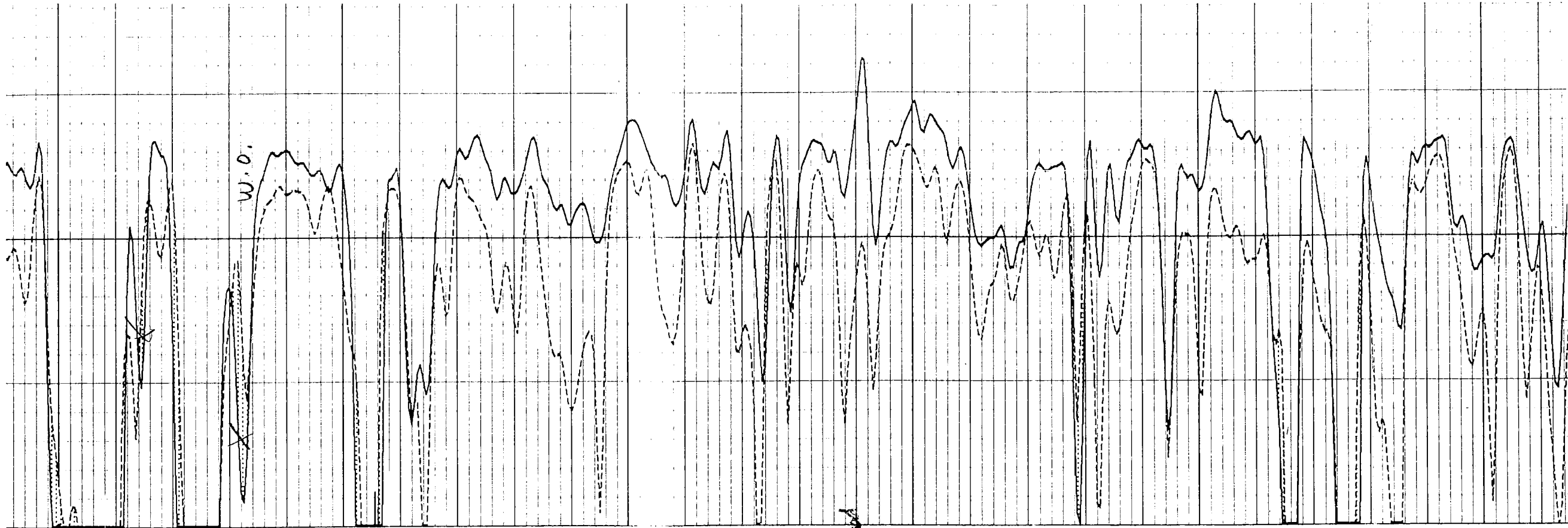
ϕ (CNS)
 ϕ (CDL)



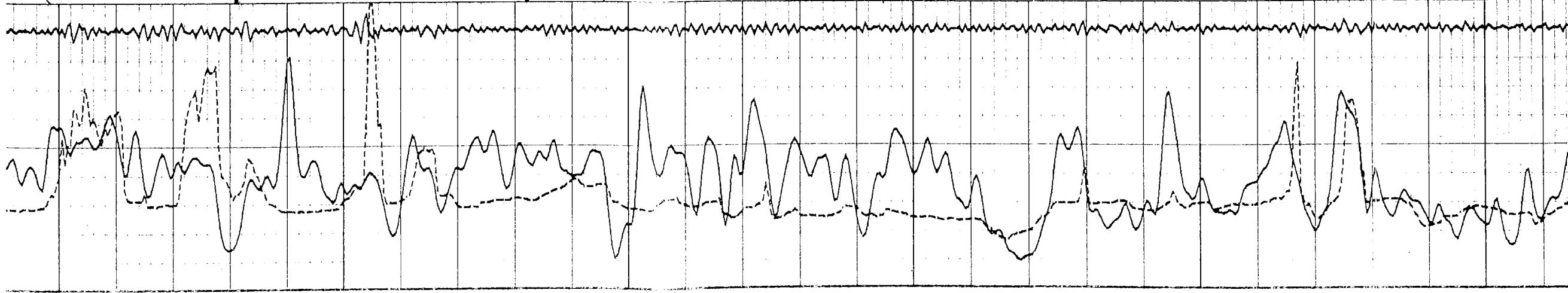


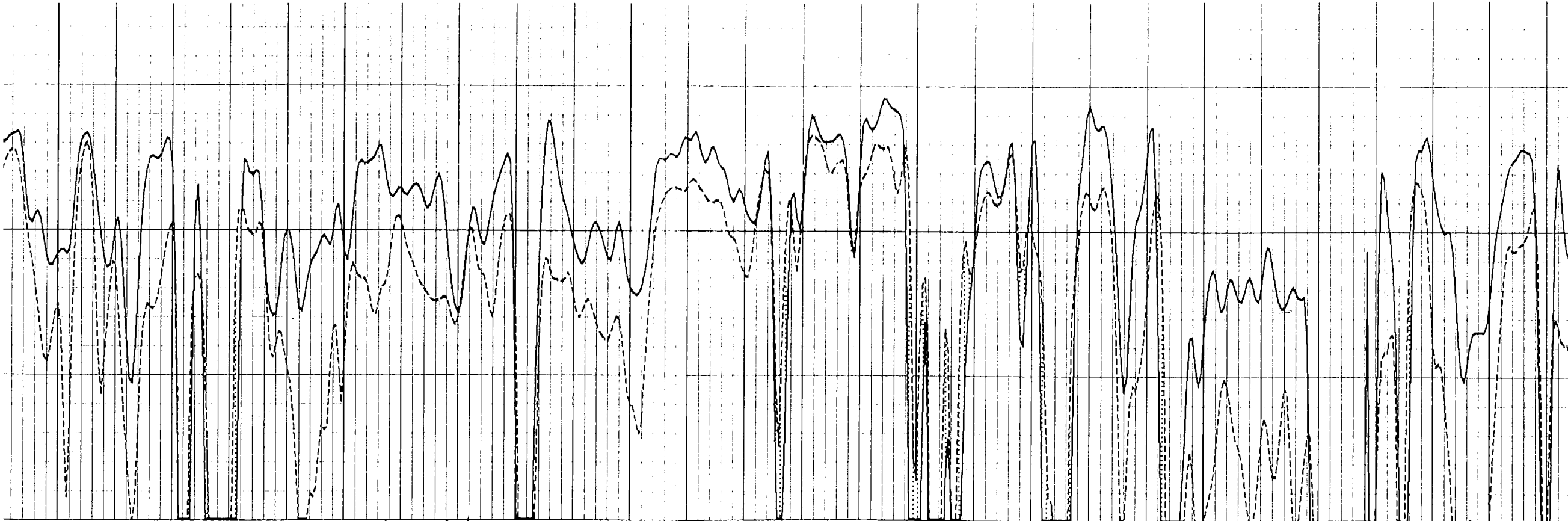
low
02700
Work
02800
Work
02900





C. Grand 02900
Nesja 03000
Co. Hornum
03100
Nesja





03200
15/2 68

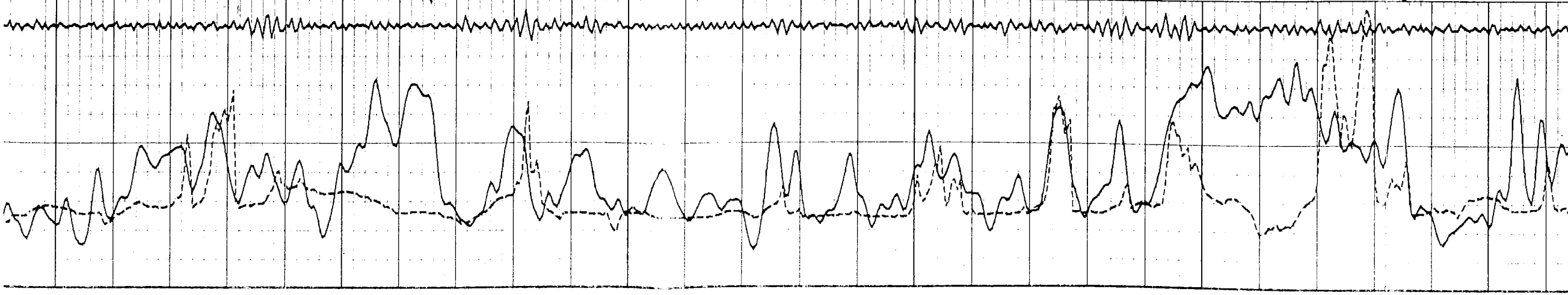
03300

15/2

15 80

WOOD
6/10/20

03400



03200
15/2 68

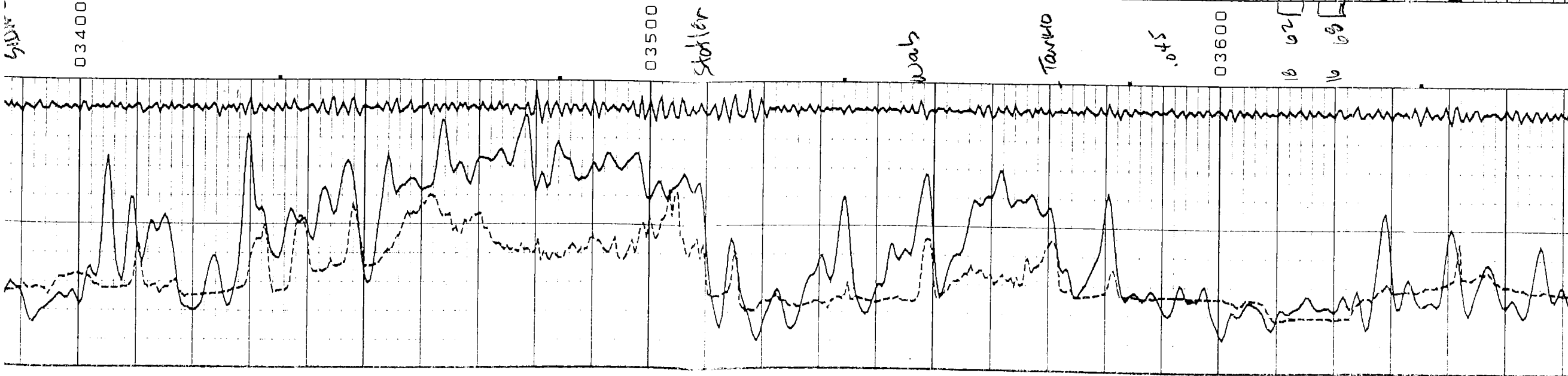
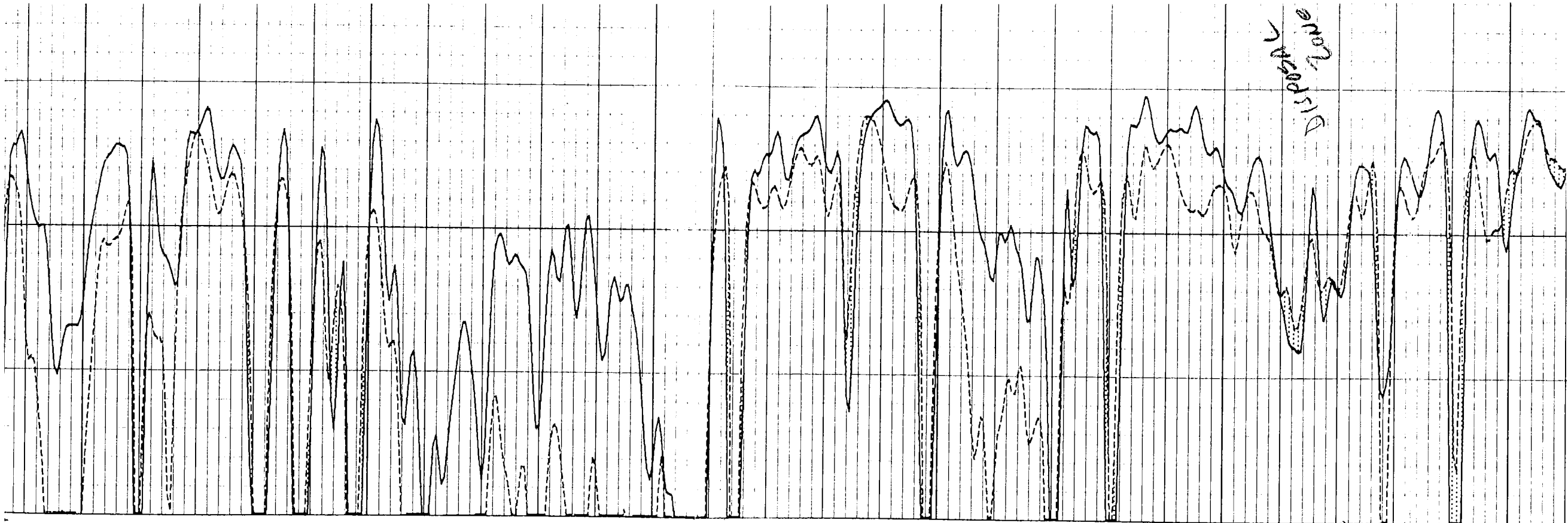
03300

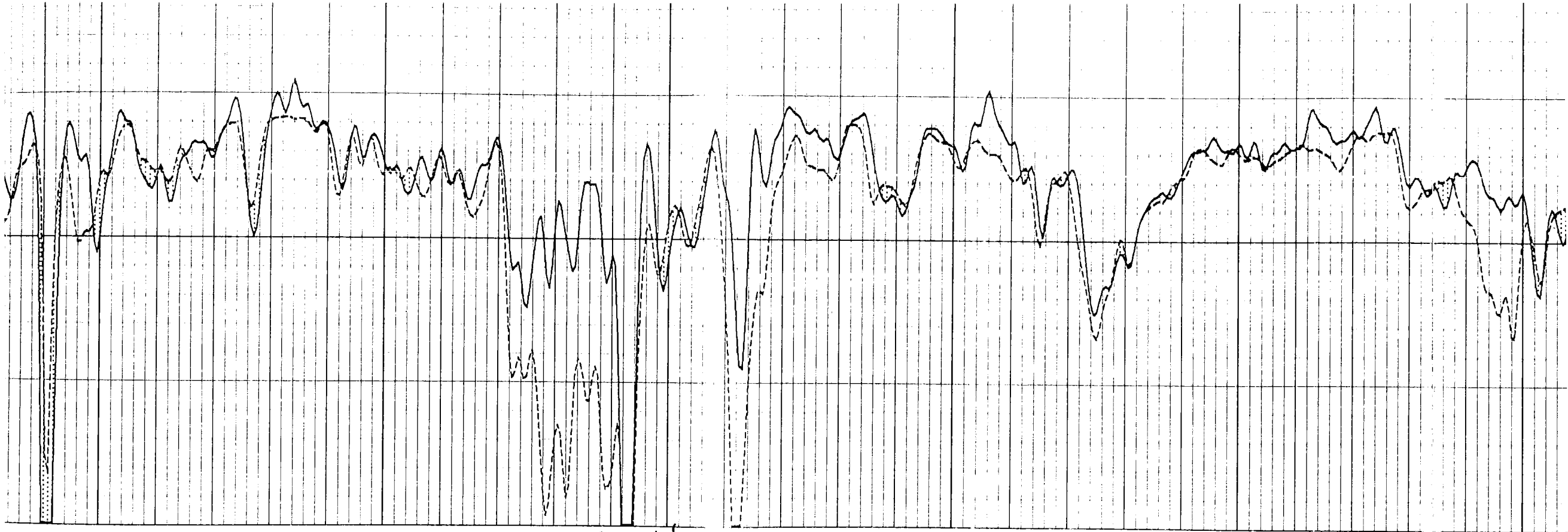
15/2

15 80

WOOD
6/10/20

03400



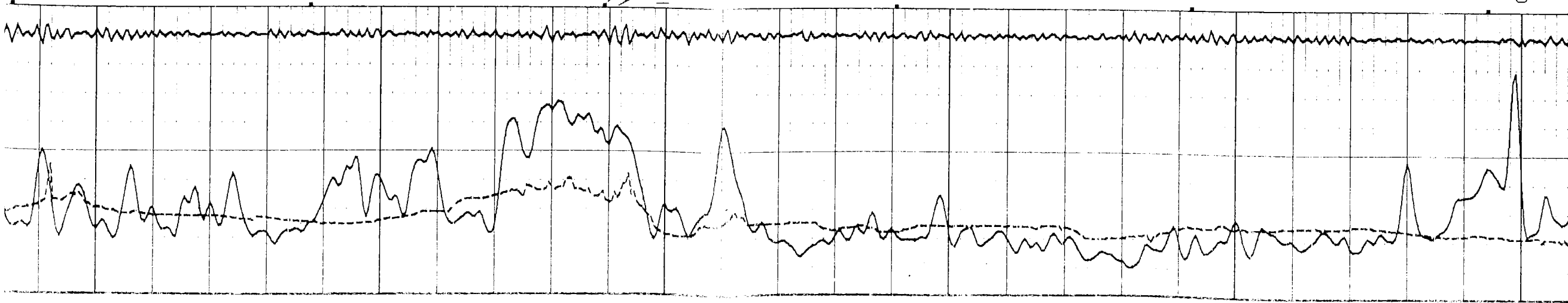


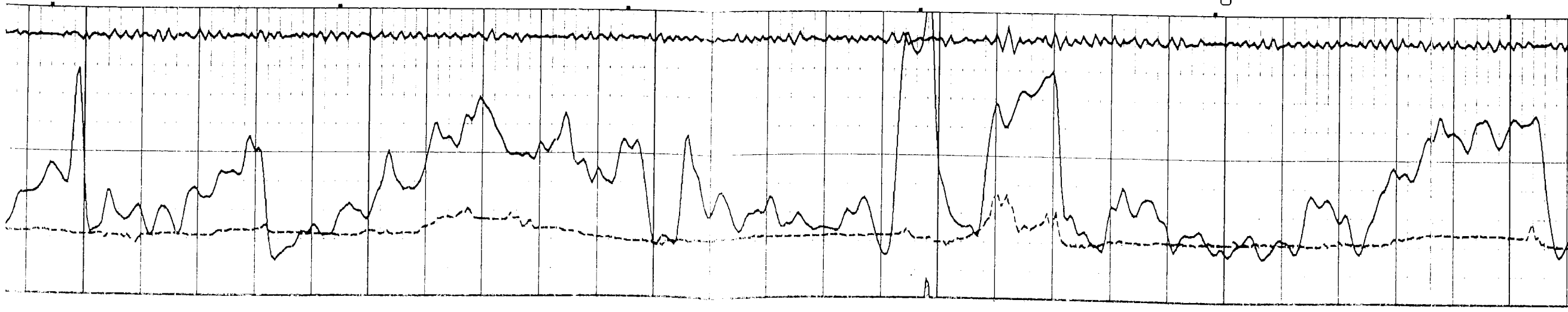
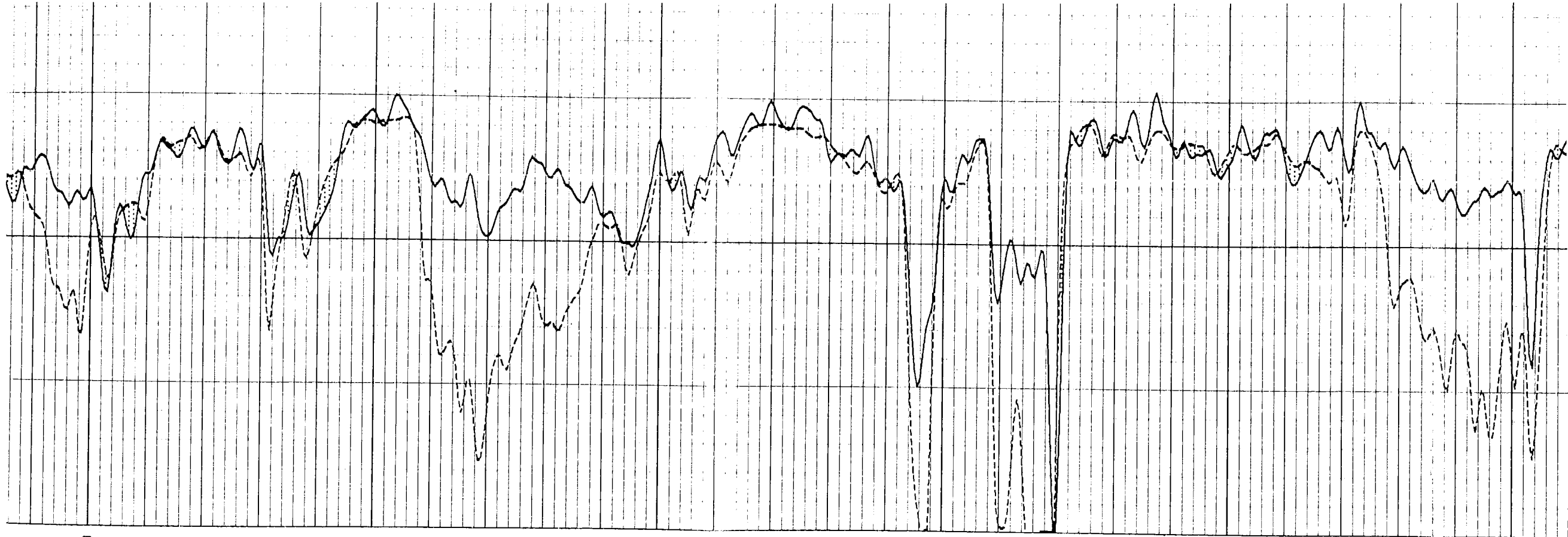
03700

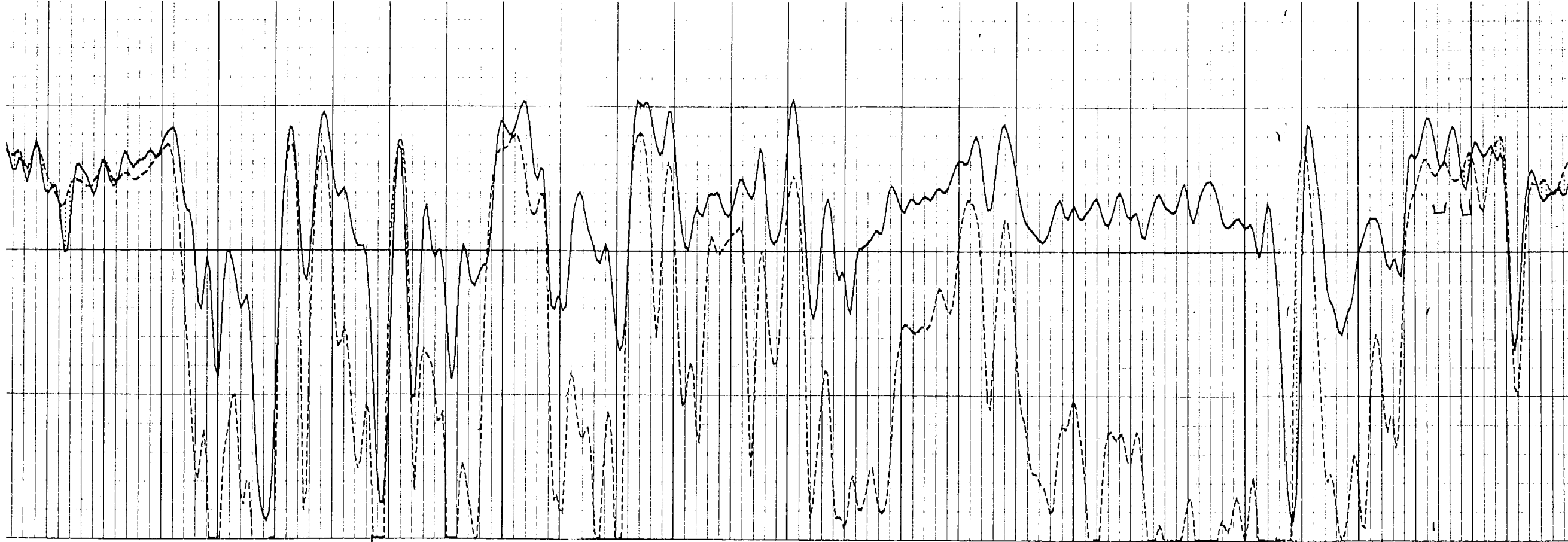
Hawkeye
12/1/68

03800

03900







04200

Hb
4227

-2037

04300

B.L.
4389

-2199

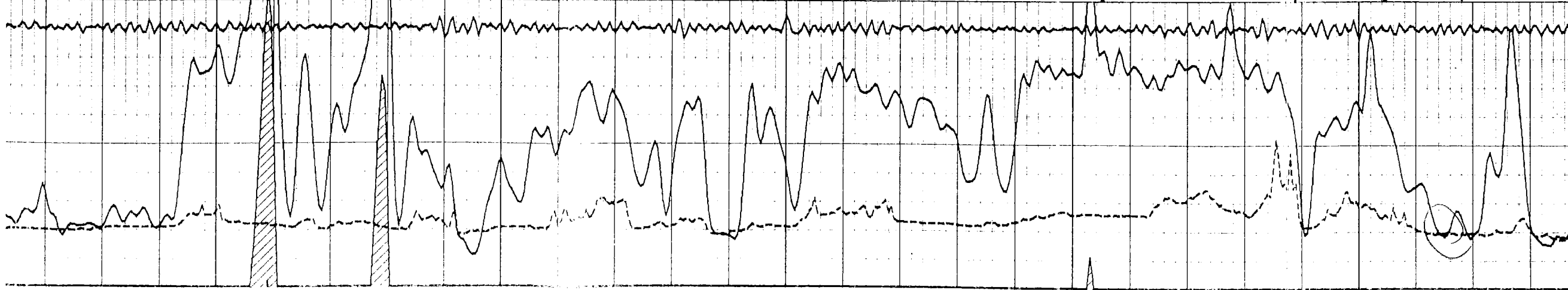
04400
LAMS

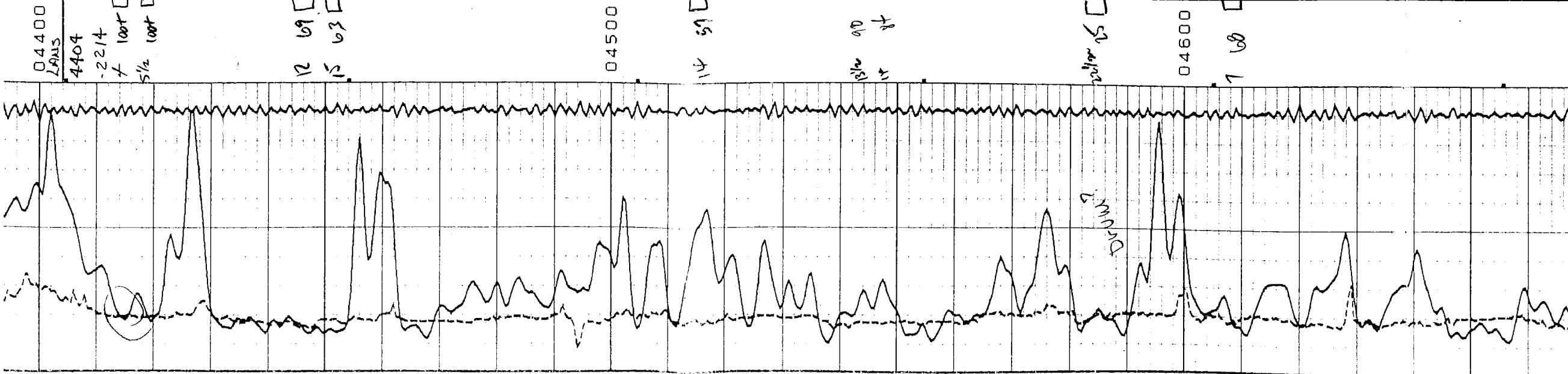
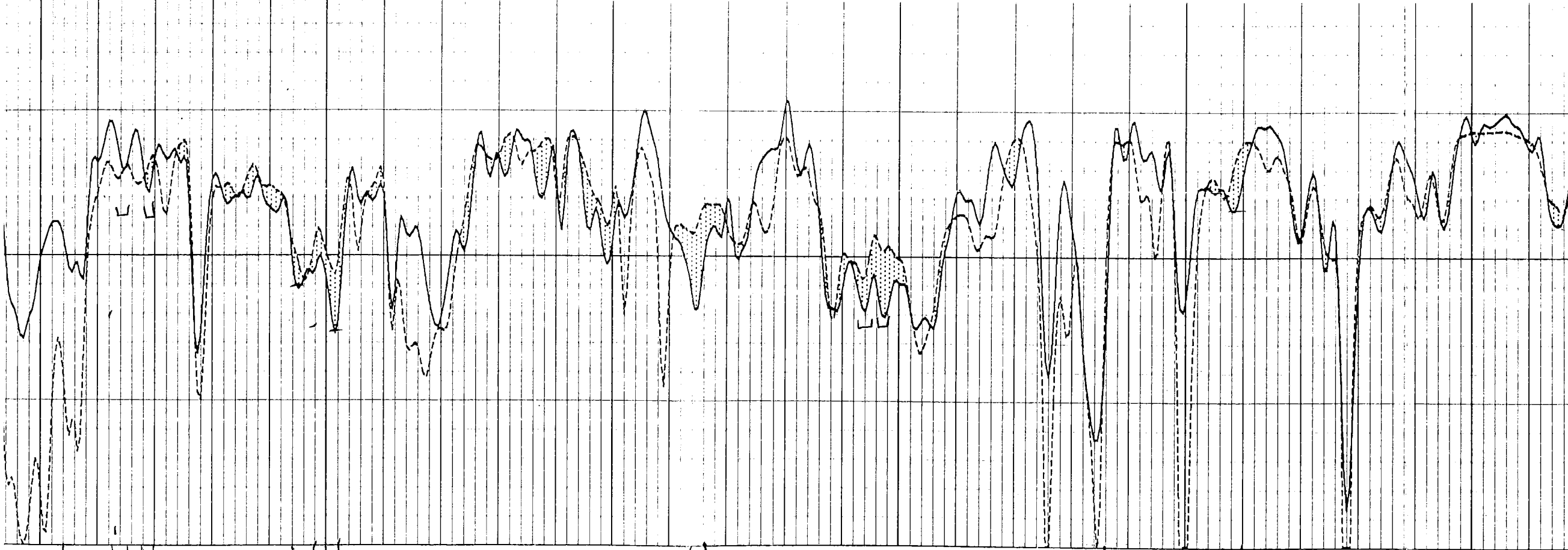
4404

-2214

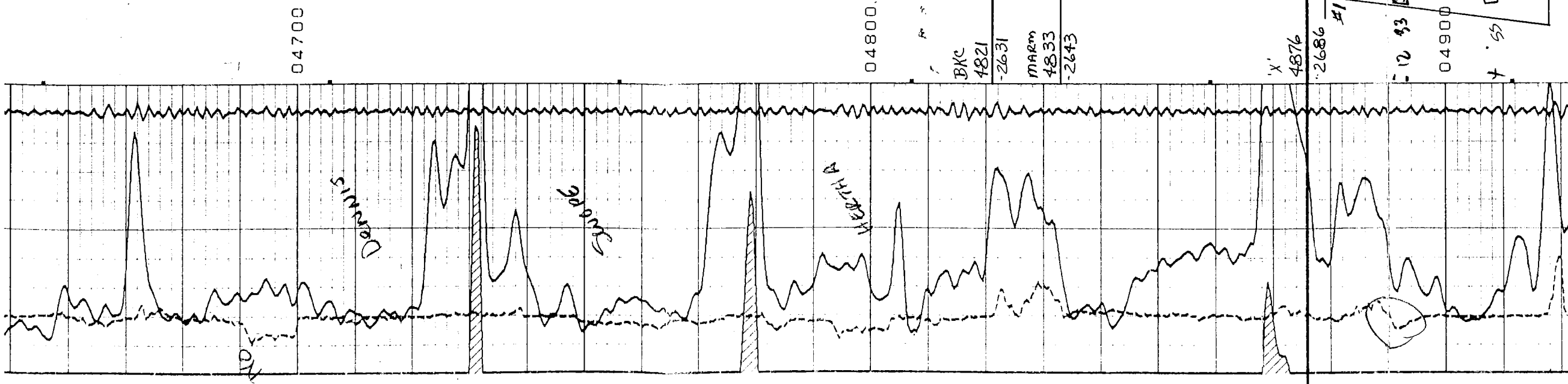
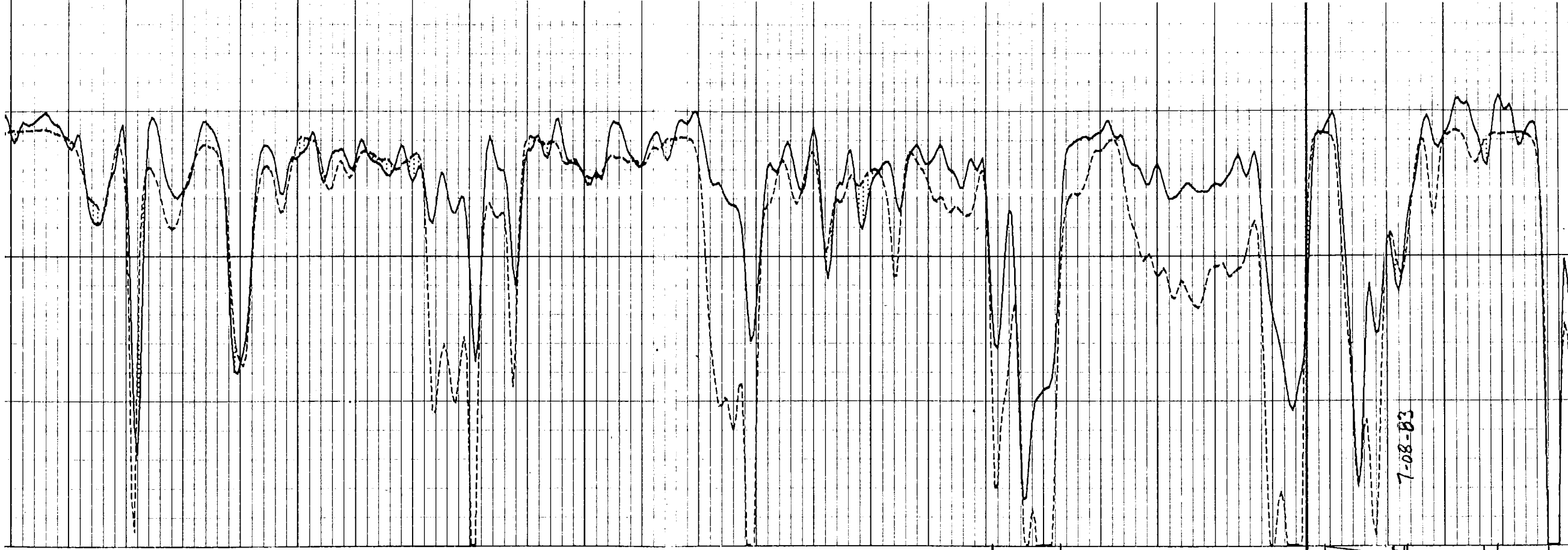
+ 100t

5/2 100t





DRUM



04700

04800

04876

2686 #1

04900

7-08-83

BKC
4821
-2631

MARM
4833
-2643

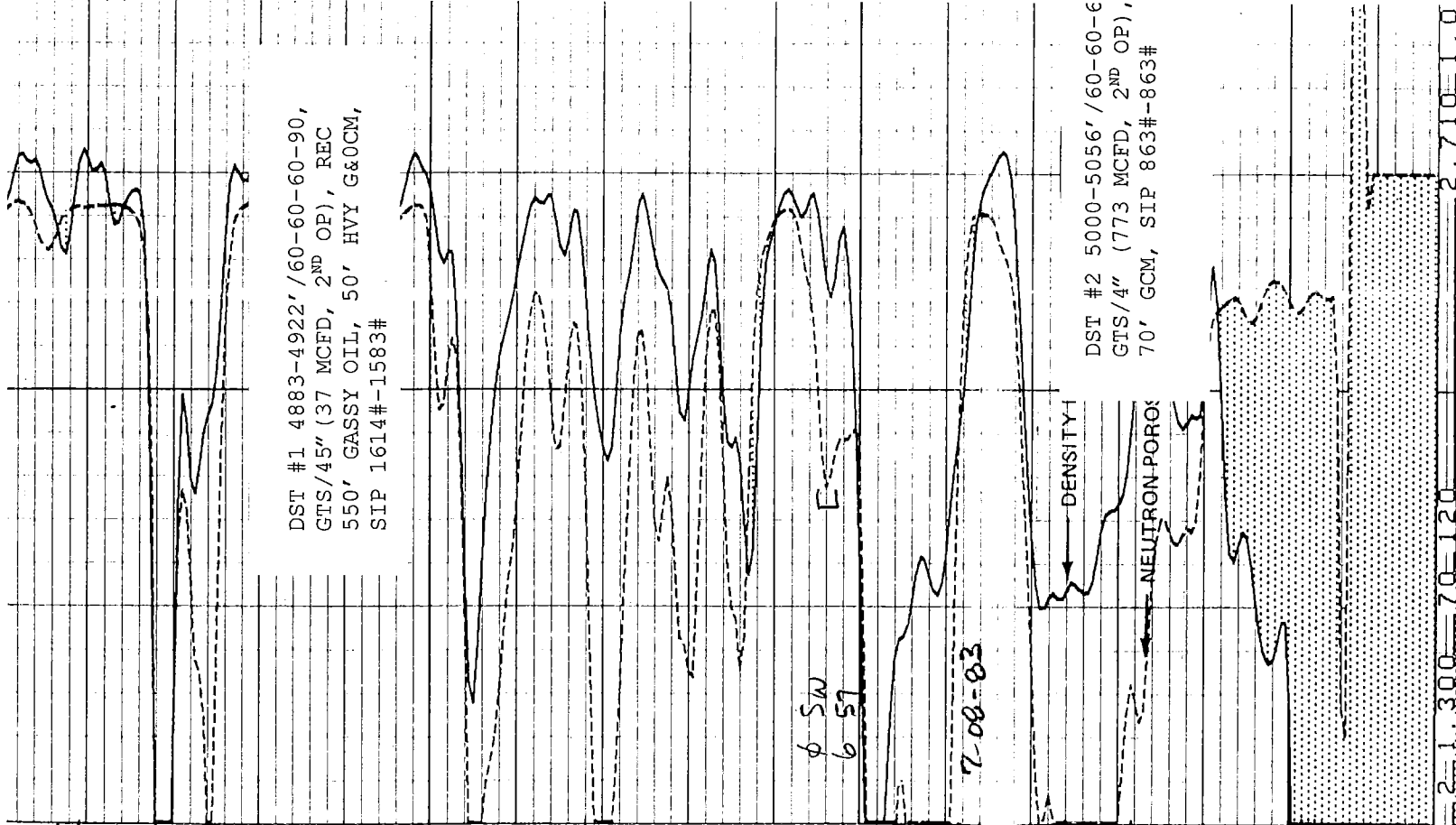
Down 1.5

STOP

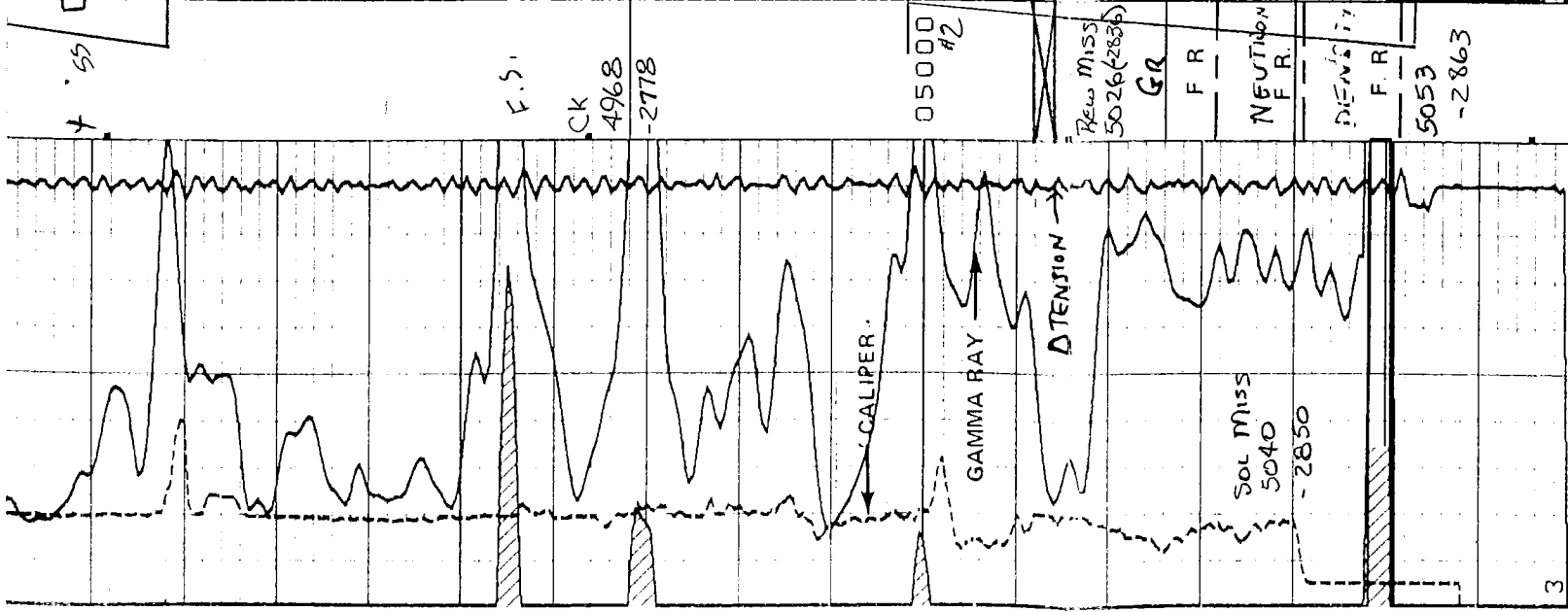
LIFT A

10

DST #1 4883-4922' / 60-60-60-90,
 GTS/45" (37 MCFD, 2ND OP), REC
 550' GASSY OIL, 50' HVY G&OCM,
 SIP 1614#-1583#



F.S.
 CK
 4968
 -2778



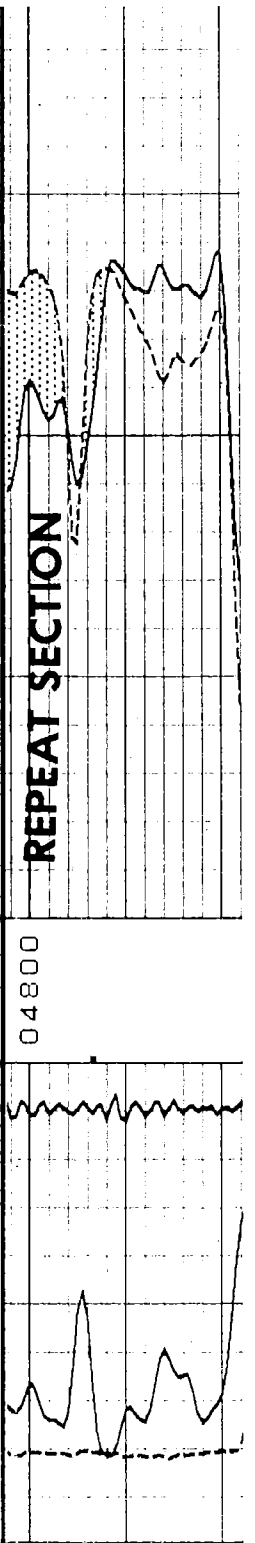
DST #2 5000-5056' / 60-60-6
 GTS/4" (773 MCFD, 2ND OP),
 70' GCM, SIP 863#-863#

| | | | | | | |
|----------|---------|-------|--------|--------|---------|-----|
| 3 | | | 2.1300 | 70.120 | 2.710 | 1.0 |
| 0 | GR API | 150 | | | | |
| 150 | GR API | 300 | | | | |
| 6 | Y - CAL | 16 | | | | |
| 10-09-80 | | 17:10 | 5069.5 | 101883 | 0099-99 | 0 |

30 ϕ (CNS)
 30 ϕ (CDL)

| | | | | | | |
|----------|---------|-------|--------|--------|---------|---|
| 10-09-80 | | 17:02 | 4797.0 | 101883 | 0099-99 | 0 |
| 0 | GR API | 150 | | | | |
| 150 | GR API | 300 | | | | |
| 6 | Y - CAL | 16 | | | | |

30 ϕ (CNS)
 30 ϕ (CDL)



04800