



FLORIDA

GEOPHYSICAL LOGGING, INC.

HIGH RESOLUTION
TEMPERATURE
SURVEY

FILE NO. UC08-254545

COMPANY CHARLOTTE COUNTY UTILITIES

WELL EAST PORT MRF I.M. #2

FIELD EAST PORT

COUNTY CHARLOTTE

STATE FLORIDA

LOCATION

OTHER SERVICES:
RTS

LAT. 26 DEG. 58' 26" N
LONG. 82 DEG. 02' 17" W

SEC. 20 TWP 40S RGE 23E

ELEV.: K.B. _____
D.F. _____
G.L. _____

PERMANENT DATUM PAD LEVEL (P.L.) ELEV. _____
LOG MEASURED FROM P.L. _____ FT. ABOVE PERMANENT DATUM
DRILLING MEASURED FROM P.L. _____

DATE 08-APRIL-1996

RUN NO. SIXTEEN

TYPE LOG HRT

DEPTH-DRILLER 3245'

DEPTH-LOGGER 3245'

LOGGED INTERVAL 3245' TO 20' TO

OPERATING RIG TIME 1 HOUR

TYPE FLUID IN HOLE WATER

SALINITY, PPM CL N/A

DENSITY-VISCOSITY N/A

LEVEL FULL

MAX. REC. TEMP, DEG F. 91 DEGF

EQUIPMENT-LOCATION 102 - MIAMI

RECORDED BY WILLIAMS/GRISSOM

WITNESSED BY GORDON KENNEDY

BOREHOLE RECORD

CASING RECORD

| RUN NO. | BIT | FROM | TO | SIZE | WGT. | FROM | TO |
|---------|---------|-------|---------|------|---------|-------|---------|
| NINE | 12 1/4" | 2803' | SURFACE | 38" | .5" MT. | 393' | SURFACE |
| | 8 7/8" | 2815' | 2803' | 30" | .5" MT. | 1638' | SURFACE |
| TEN | 12.25" | 2970 | CASING | 20" | .5" MT. | 2965' | SURFACE |
| 16 | 18 1/2" | 3245 | CASING | | | | |

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 INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFULL 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 ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

REMARKS

RADIOACTIVE TRACER/TEMPERATURE TOOL STRING CONFIGURATION

-- RADIOACTIVE TRACER/TEMPERATURE TOOL

-- UPPER GR -- 23.5 FT. FROM BOT

-- EJECTOR PORT -- 13.5 FT. FROM BOT

-- MIDDLE GR -- 11 FT. FROM BOT



Entered into
OCULUS
South District

-- TOTAL TOOL STRING LENGTH = 27.5 FT.--

-- CCL -- 9.5 FT. FROM BOT

-- LOWER GR -- 1 FT. FROM BOT

-- BOT -- TEMPERATURE MEASURE POINT

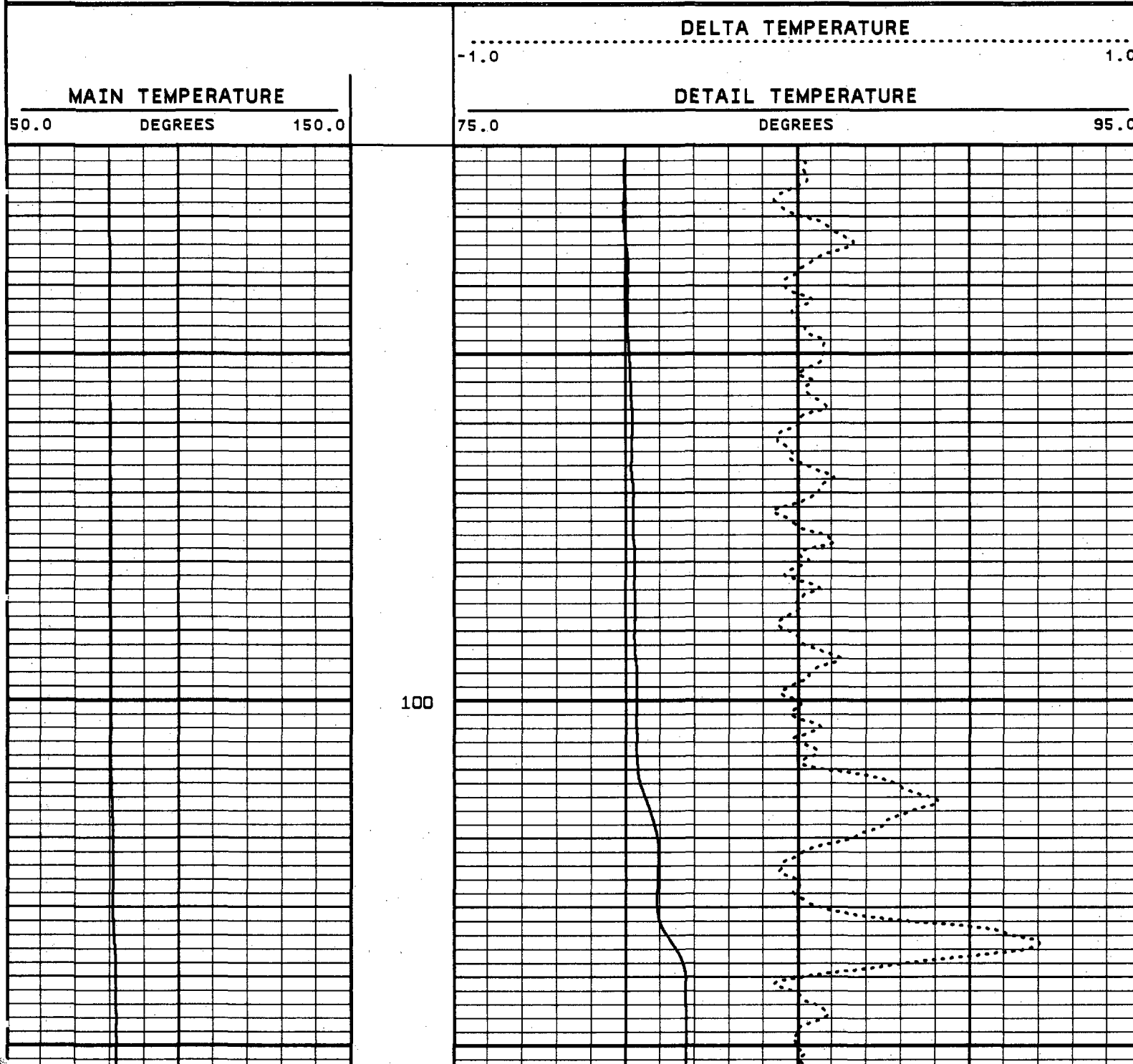
REMARKS

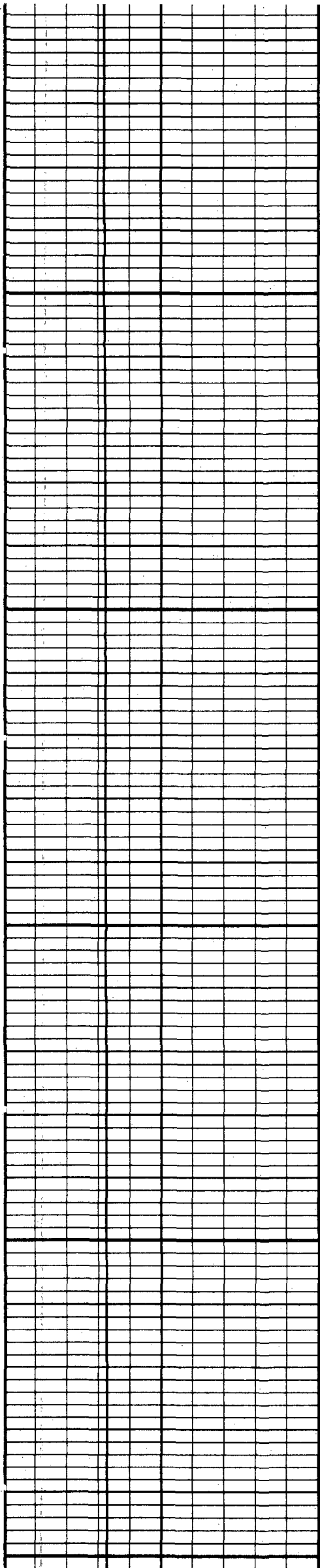
LOGGED GOING DOWN

VERSION: 2.26

EPIW216TEM

FINISH DEPTH: 1784.1 FEET DIRECTION: DOWN DATE: 04/08/96 TIME: 08:29:48 MODE: TRACE PLAYBACK

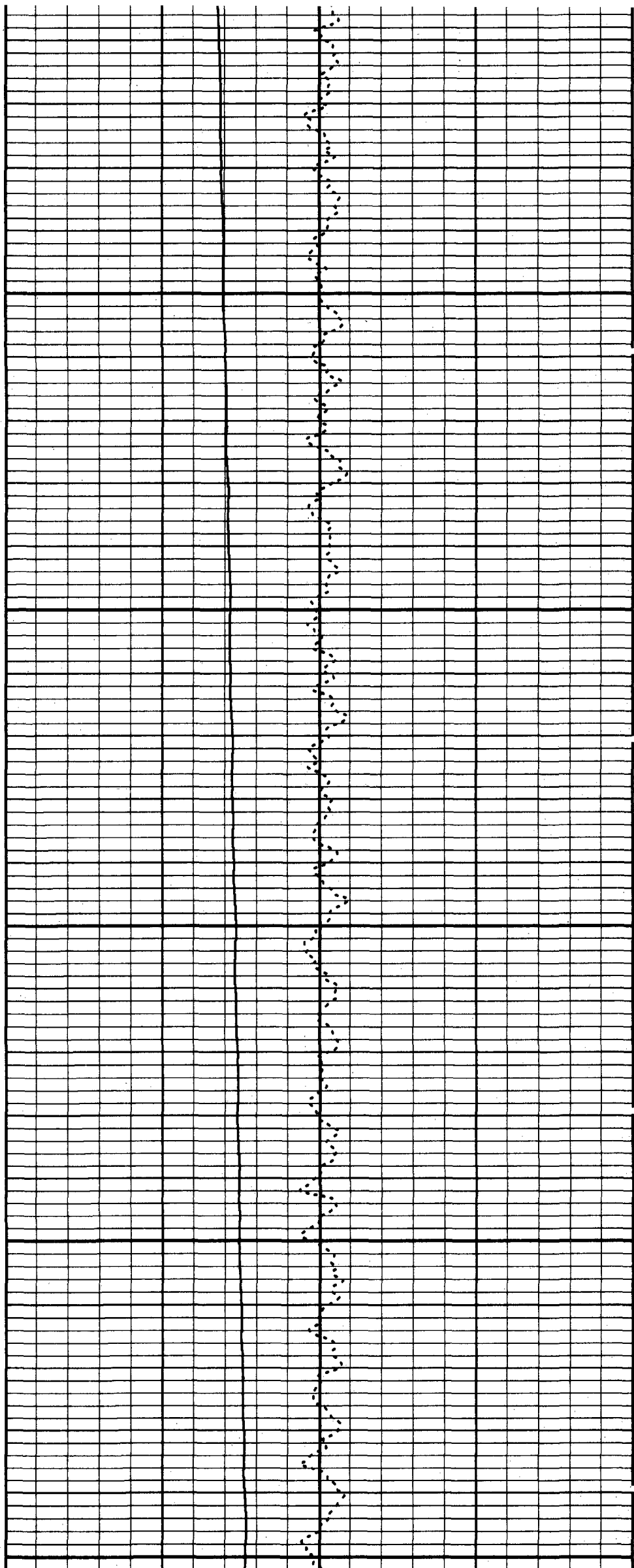


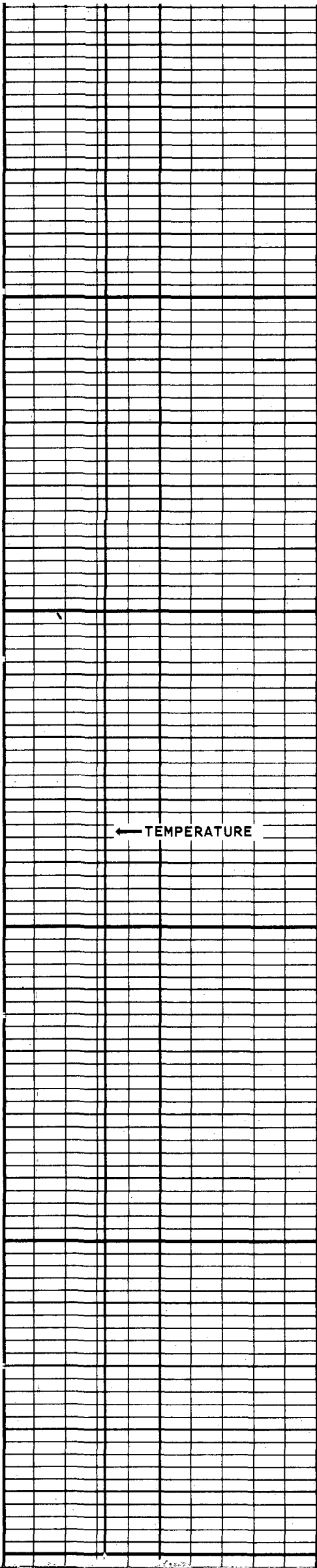


200

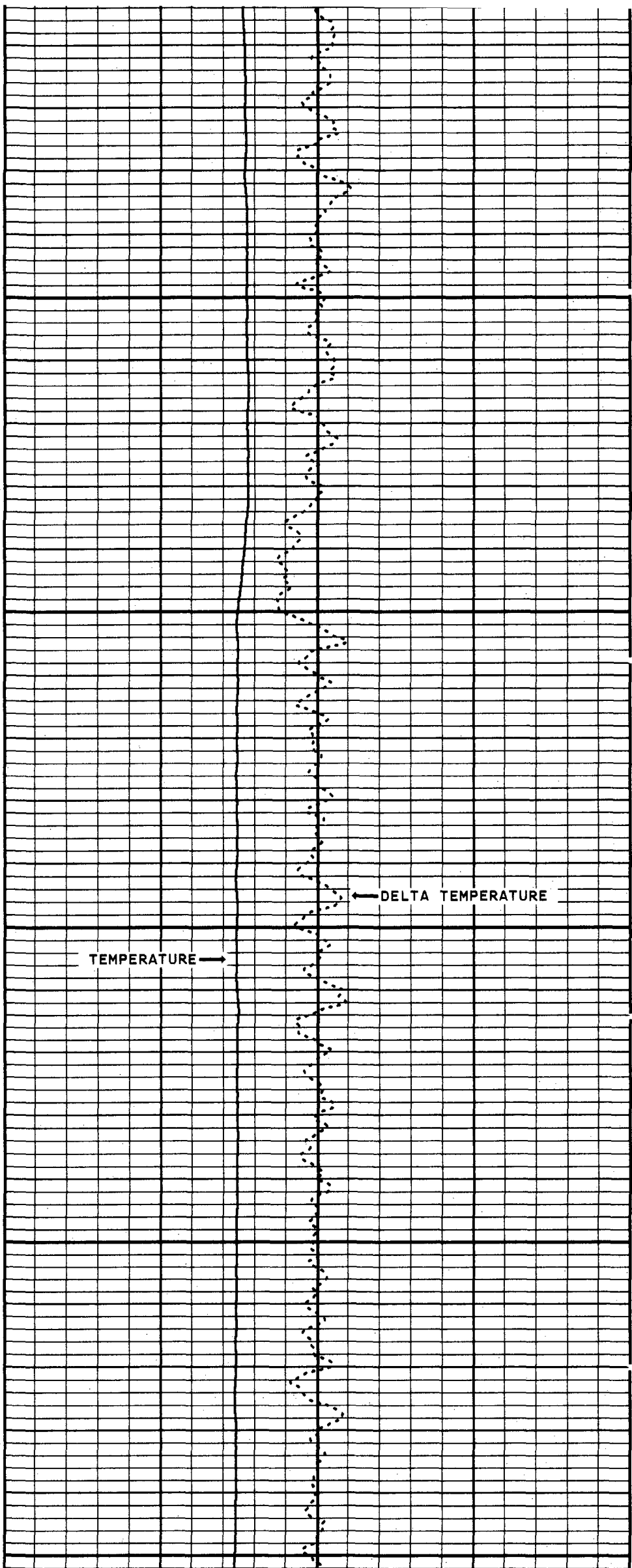
300

400

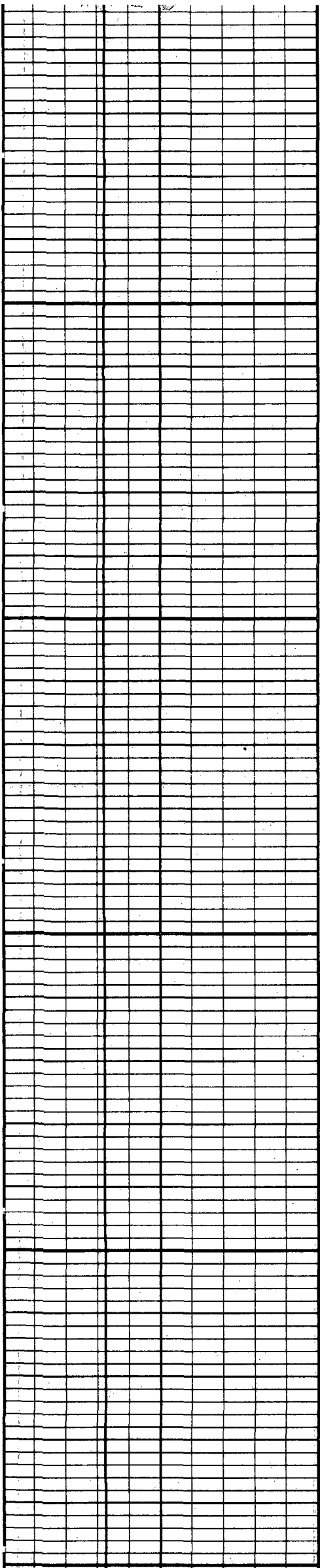




500



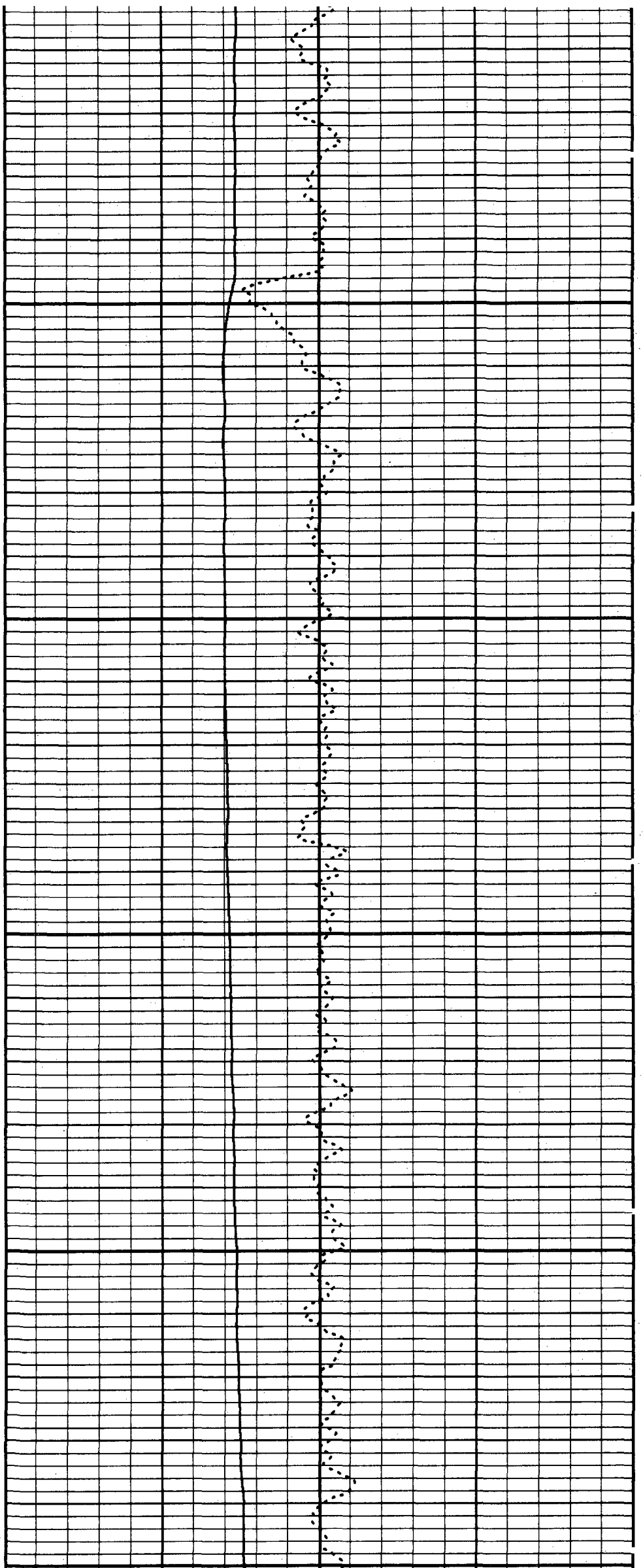
600

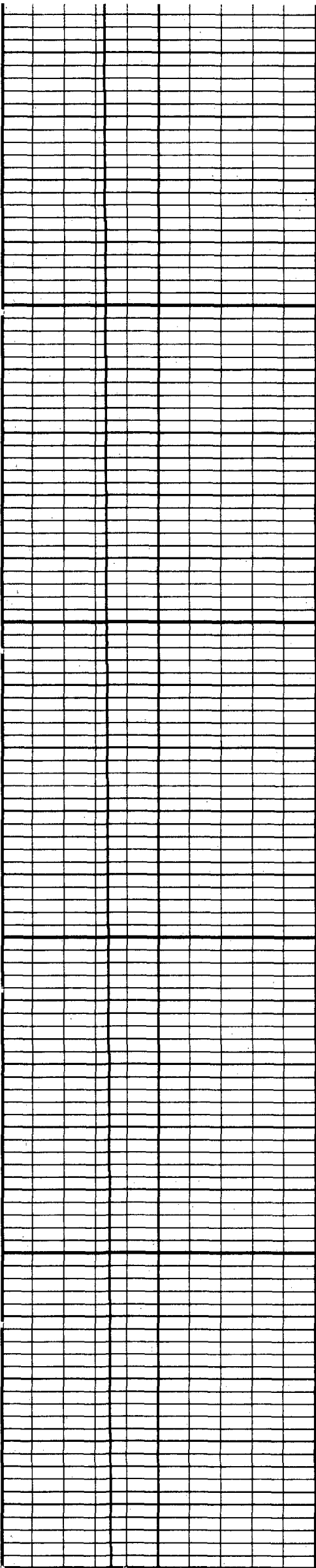


700

800

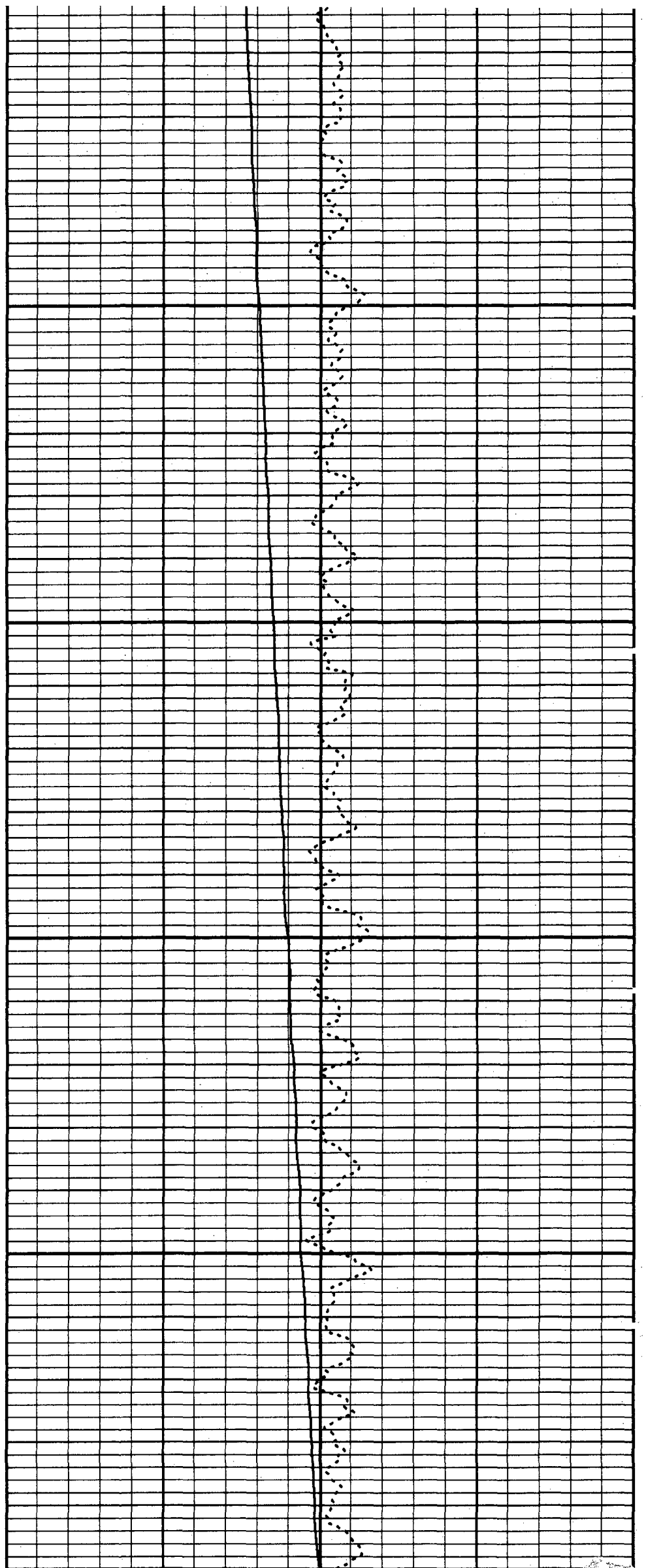
900

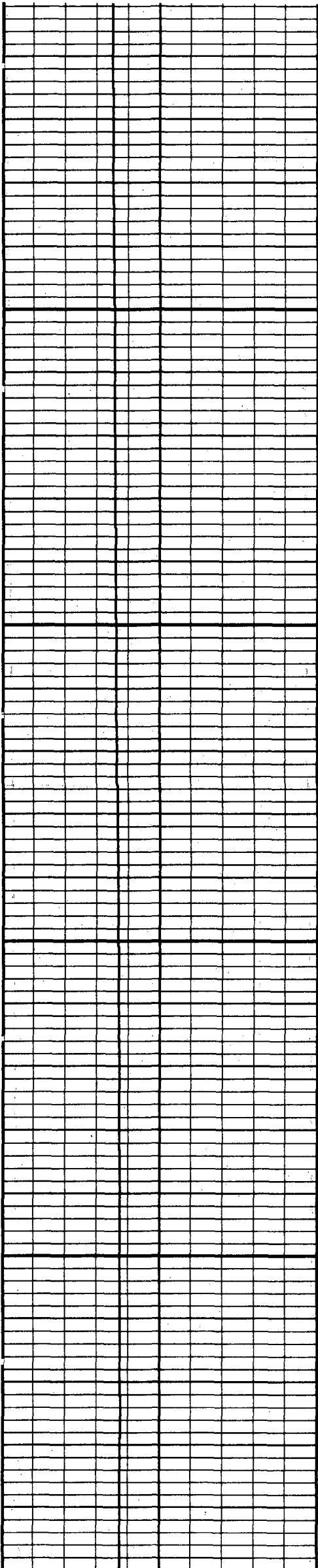




1000

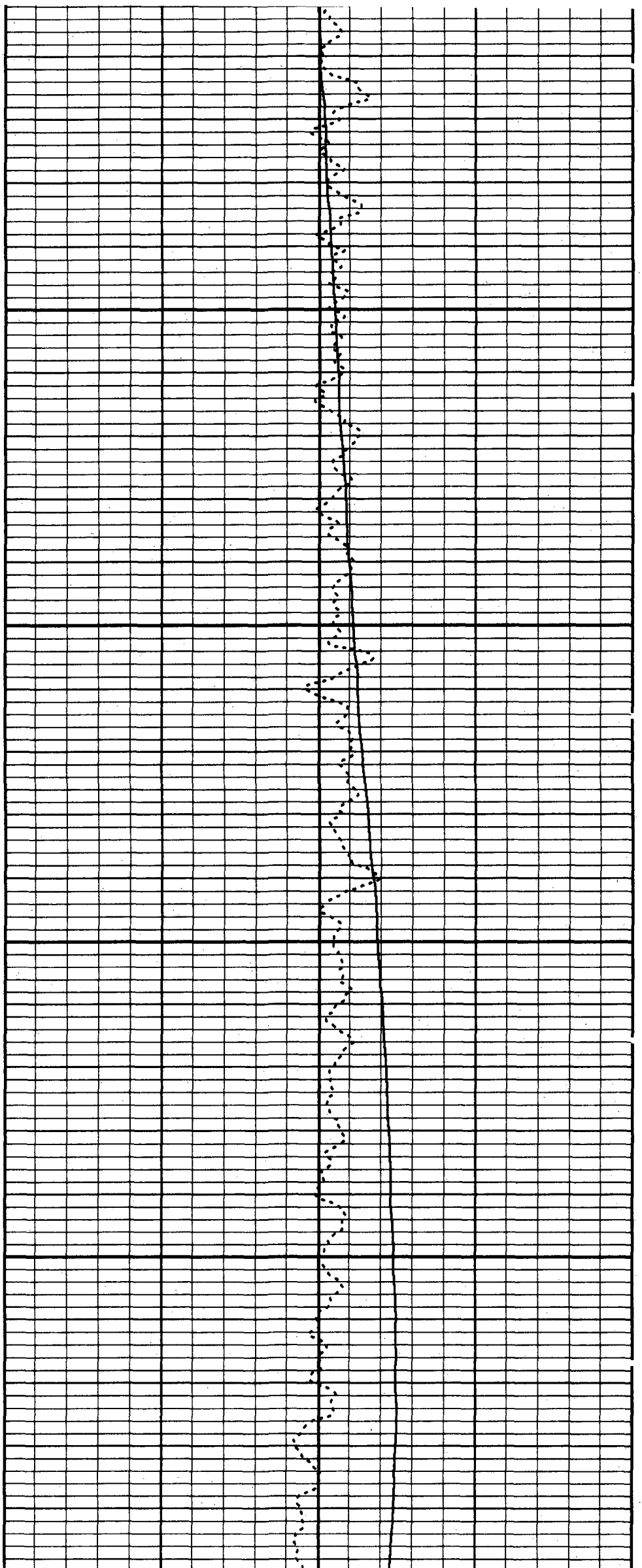
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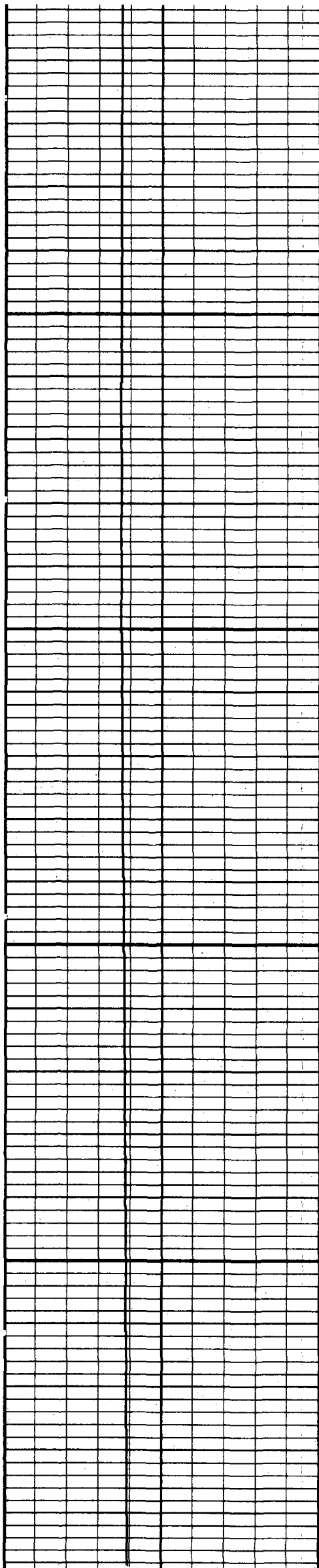




1200

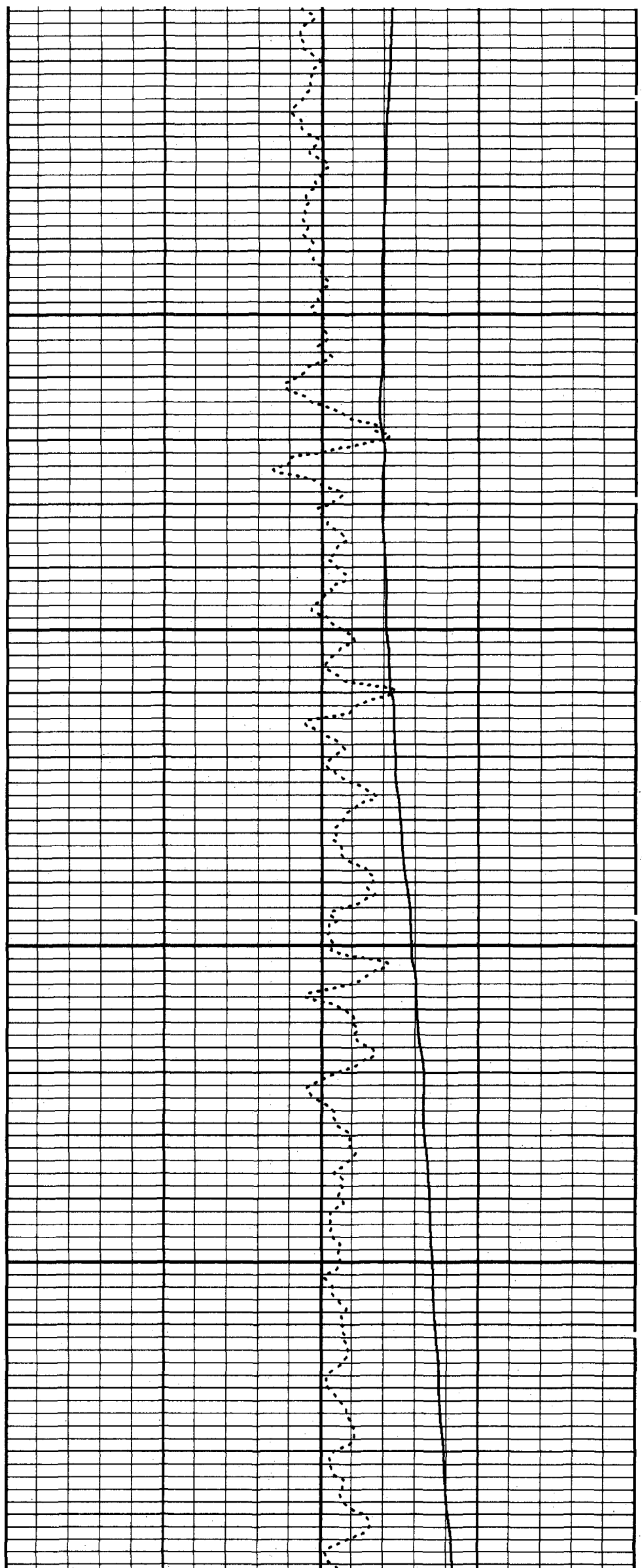
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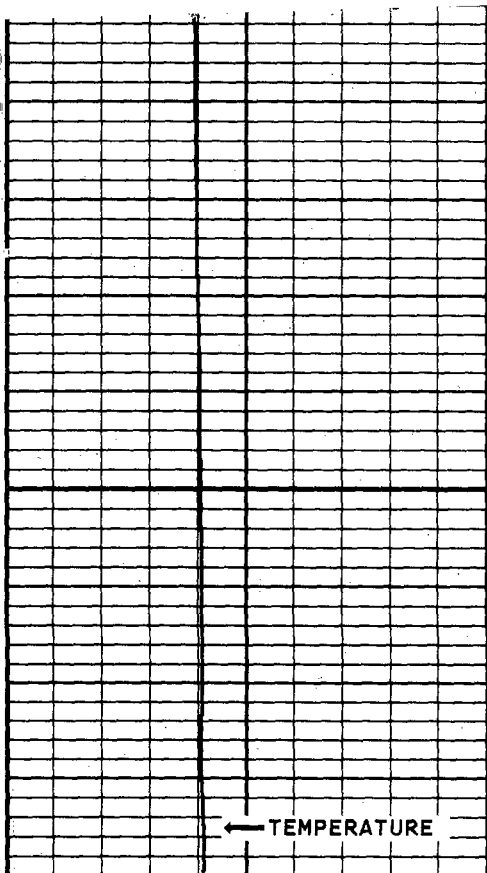




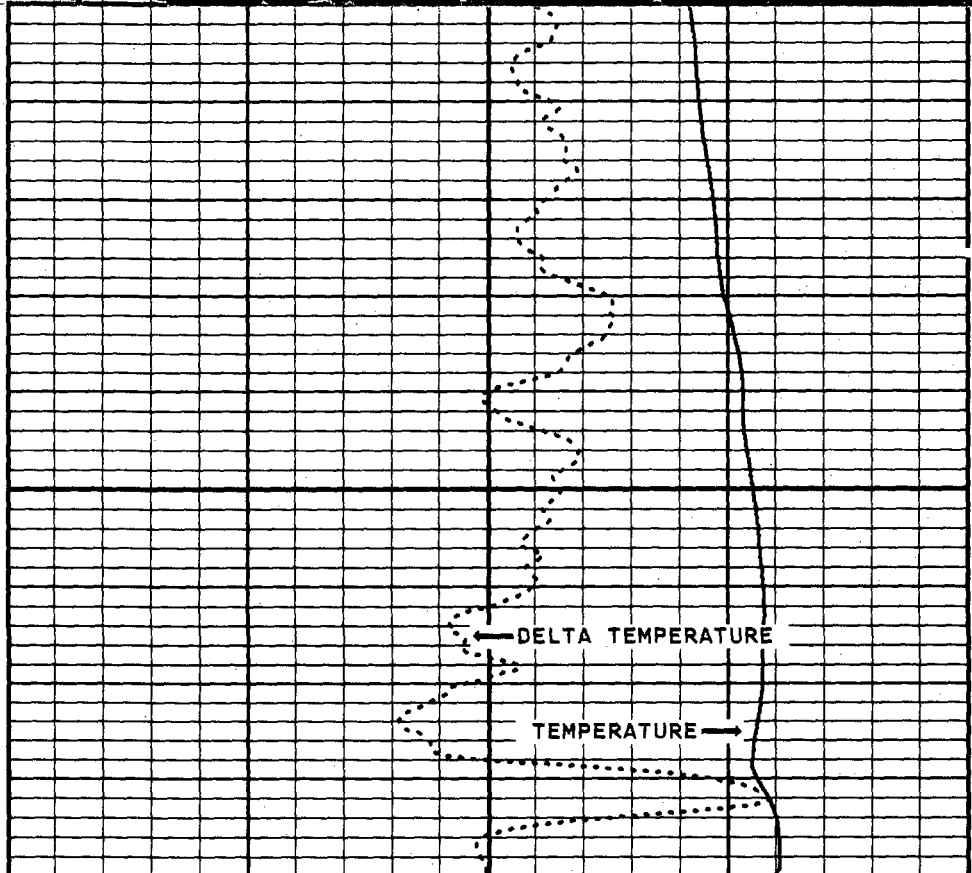
1500

1600





1700



MAIN TEMPERATURE
 50.0 DEGREES 150.0

DETAIL TEMPERATURE
 75.0 DEGREES 95.0
 DELTA TEMPERATURE
 -1.0 1.0

START DEPTH: 25.0 FEET DIRECTION: DOWN DATE: 04/08/96 TIME: 07:57:11 MODE: TRACE PLAYBACK

EPIW216TEM

VERSION: 2.26

REMARKS

LOGGED GOING DOWN
 TEMPERATURE DONE IN TWO PASSES DUE TO TEMPORARY TOOL PROBLEM

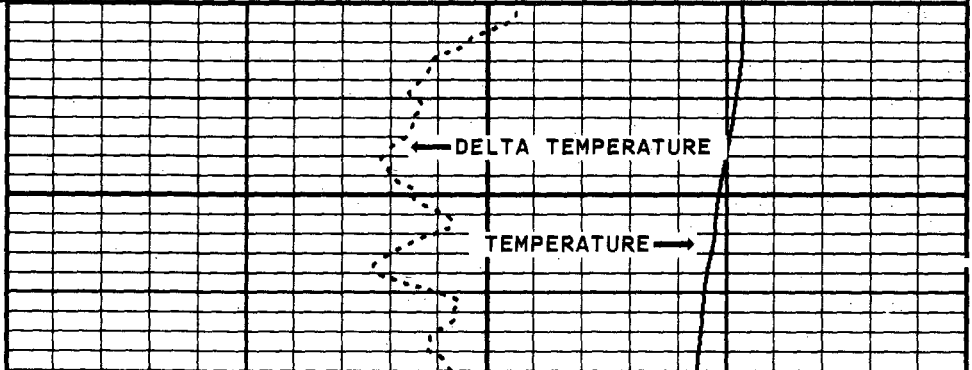
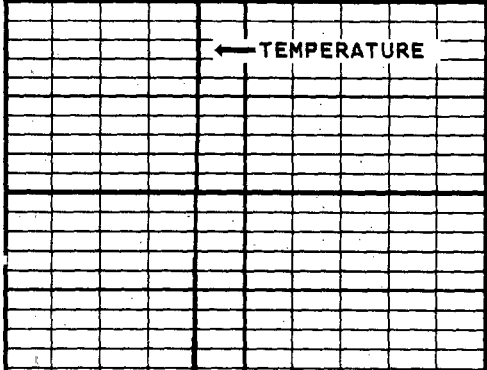
VERSION: 2.26

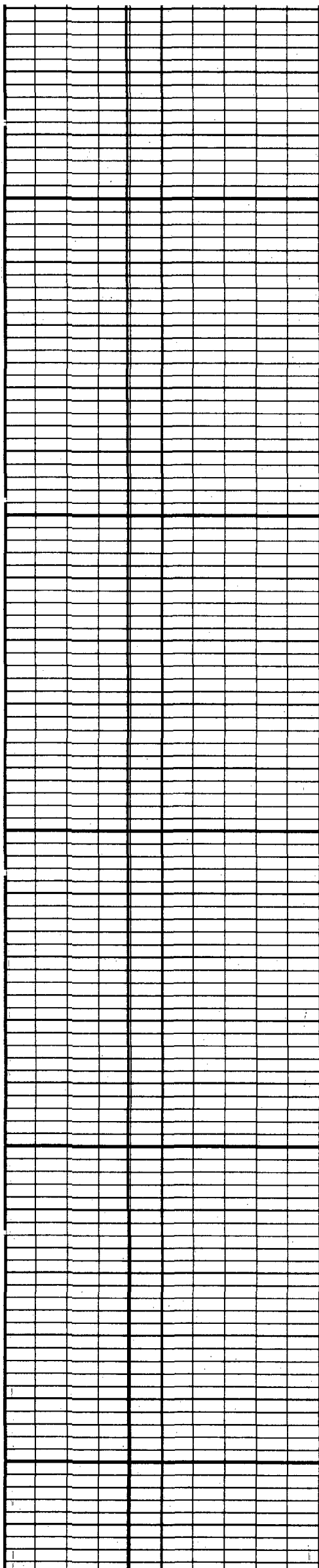
EPIW216TE2

FINISH DEPTH: 3244.2 FEET DIRECTION: DOWN DATE: 04/08/96 TIME: 09:03:26 MODE: TRACE PLAYBACK

MAIN TEMPERATURE
 50.0 DEGREES 150.0

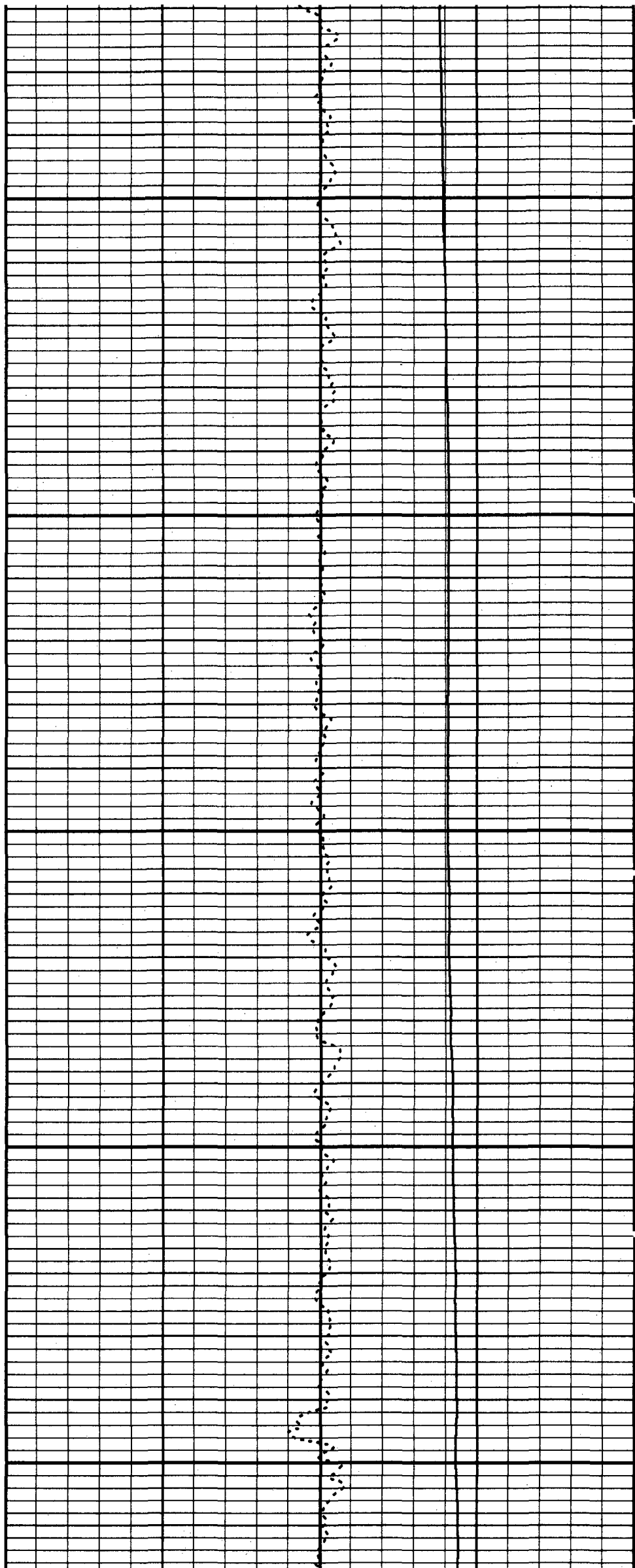
DETAIL TEMPERATURE
 75.0 DEGREES 95.0
 DELTA TEMPERATURE
 -1.0 1.0

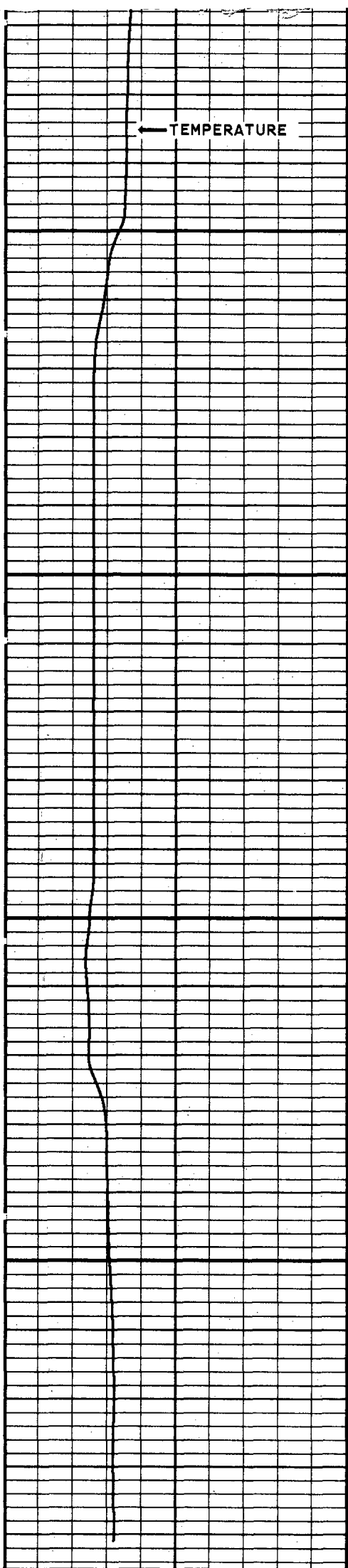




2100

2200

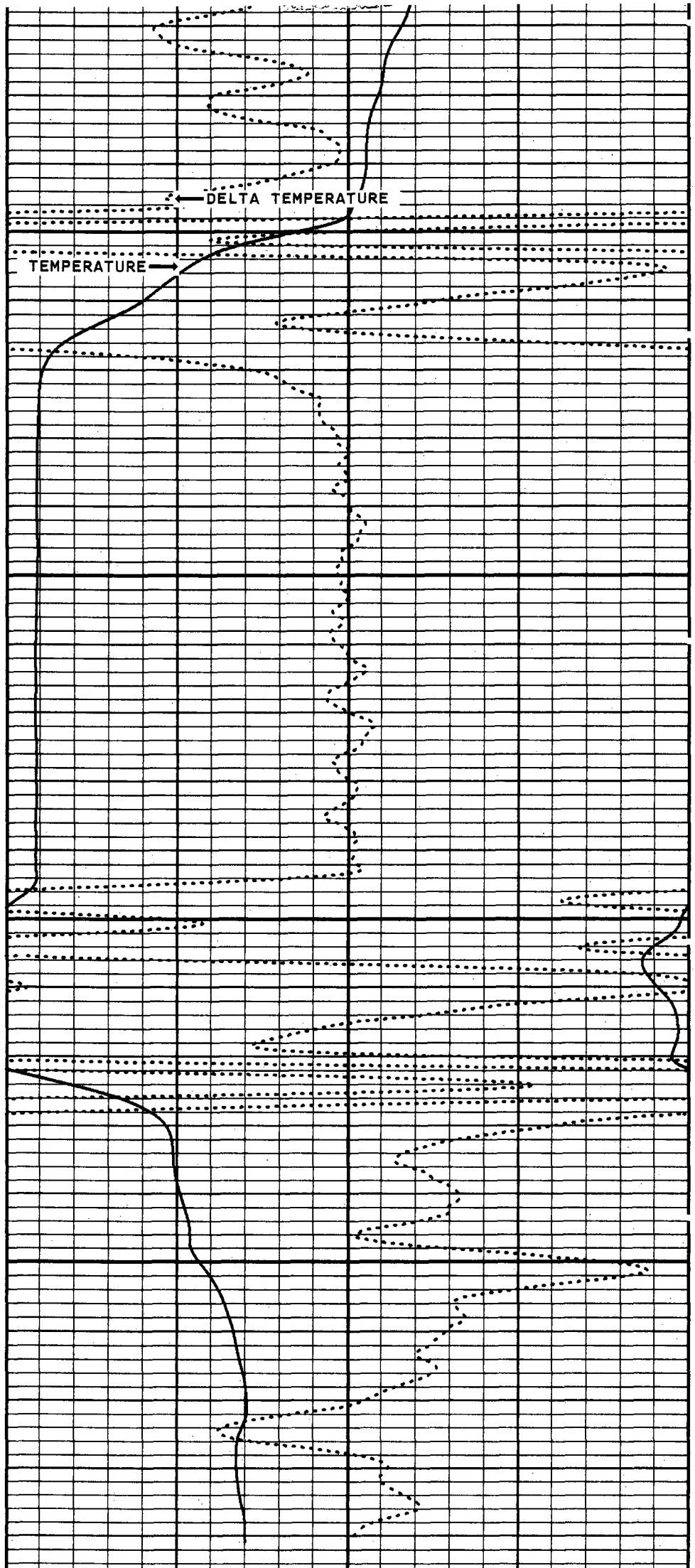




MAIN TEMPERATURE
 50.0 DEGREES 150.0

3100

3200



DETAIL TEMPERATURE
 75.0 DEGREES 95.0

DELTA TEMPERATURE
 -1.0 1.0

START DEPTH: 1730.2 FEET DIRECTION: DOWN DATE: 04/08/96 TIME: 08:32:46 MODE: TRACE PLAYBACK

EPIW216TE2

VERSION: 2.26

MASTER CALIBRATION SUMMARY

FILE: DATE: 04/08/96 TIME: 19:32 VERSION: 2.26

TEMPERATURE #T52

DATE: 04/08/96 TIME: 03:20

| | MEASURED | UNITS | STANDARD | MINIMUM | MAXIMUM | DEVIATION | UNITS |
|------|----------|-------|----------|---------|---------|-----------|-------|
| ZERO | 400.0 | CPS | 40.0 | 40.0 | 40.0 | 0.00 | DEGF |
| PLUS | 1400.0 | CPS | 140.0 | 140.0 | 140.0 | 0.00 | DEGF |

COMPANY CHARLOTTE COUNTY UTILITIES

RECEIVED

APR 23 1996

WELL EAST PORT WRF I.W. #2

D.E.P. South District

FIELD EAST PORT STATE FLORIDA

