

State Well Report
Part 1 - Driller's Log

Mississippi Department of Environmental Quality
Office of Land and Water Resources
P.O. Box 10631
Jackson, MS 39289-0631
(601)961-5210
(601)354-6938 (fax)

County: Rankin
Permit #: GW-16942
Driller: Griner Drilling
Date drilling completed: 12-13-2012

For Office Use Only:

Aquifer: _____
Well #: L-89
L. S. Elevation: _____
E-log #: _____

State Law requires that this report be prepared by the license holder responsible for the work and filed with the Department at the above address within 30 days of completion of drilling of the well or borehole.

<p align="center">Information on Well Owner <i>(Landowner if borehole is not for a water well)</i></p> <p>Owner Name: <u>City of Brandon</u> Mailing Address: <u>Po Box 1539</u> <u>Brandon MS 39043</u> City State Zip Code Telephone No. <u>(601) 825-5021</u></p>	<p align="center">Well or Borehole Location</p> <p>W 89 59 58 029 N 32 15 15 612 84 Latitude: <u>32-15-30.2</u> Longitude: <u>89-59-33.9</u> Method of Lat/Long (circle one): Conventional Survey, USGS quad, Hand-held GPS, Survey-grade GPS <u>NW 1/4 SE 1/4 Sec 21 Twn 3N Rng 3E</u> Distance Direction Nearest Town <u>— Miles — of Brandon</u></p>
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Well / Borehole Data

Date drilling started: 12-12 Date drilling completed: 12-13 Hole depth: 1460 Hole diameter: 8 7/8"
Location of the source of any surface water used for drilling: Public Water Supply
Method of dosing and volume of Chlorine used in drilling and development: City Cl²
Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other: _____
Name of organization running log(s): Griner Drilling
Purpose of borehole (check one): Water Well Geotechnical/Geological Investigation _____ Ground Source Heat Pump _____
Seismic Survey _____ Other (describe) _____
If drilling is not related to water well construction, skip the remainder of this block

Purpose of Well (check one): Home _____ Industrial _____ Public Supply Irrigation _____ Fish Culture _____ Other: _____
If a flowing well, method of flow regulation: Valve _____ Other (describe) _____
Static Water Level: 373.03 feet above or below (circle one) land surface Date measured: 12-13
Method of Measurement (circle one) steel tape electric tape air line other: _____
Well depth: 1460 Well grouted to a depth of 1355 feet Type of grout (circle one) Neat Cement Bentonite Mix
Casing length: 1355 feet Casing diameter: 16 inches Type of casing: Black Steel
Screen length: 106 feet Screen diameter: 10 inches Type of screen: Stainless
Screen slot size: .20 inches Setting depth: From 1360 feet to 1460 feet
Type of completion (circle all applicable): Gravel packed Underreamed Telescoped Open hole Natural Development
Other (describe): _____
Top of lap pipe or reduction in casing: 1240 feet. *If telescoped or more than one screen, describe on next page*

Form: OLWR-SWR-1A

MSDH# 0610003-10

STATE WELL REPORT

Part 2

Pump Installer's Completion Report
 Mississippi Department of Environmental Quality
 Office of Land and Water Resources
 P.O. Box 10631
 Jackson, MS 39289-0631
 (601)961-5210
 (601)354-6938 (fax)

County: Rankin
 Permit #: GW-16942
 Driller: Griner Drilling
 Date completed: 12-13
Copy information from block on Part 1

For Office Use Only:

Aquifer: _____
 Well #: L-89
 Elevation: _____

This part of the report must be completed by a licensed water well contractor or a licensed pump installer. A copy of Part 1 of the report must be attached and both parts filed with the Department at the above address within 30 days of well completion.

Well Owner Information	Well Location
Owner Name: <u>City of Brandon</u>	Latitude: <u>N 89° 59' 58.624"</u> Longitude: <u>W 82° 15' 56.1284"</u>
Mailing Address: <u>PO Box 1539</u>	<u>32-15-36.2</u> <u>89-59-33.9</u>
<u>Brandon MS 39043</u>	Method of Lat/Long (check one): Conventional Survey _____
City State Zip Code	USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
Telephone No. <u>(601) 825-5021</u>	<u>NW 1/4 SE 1/4 Sec 21 T 5N R 3E</u>
	Distance _____ Direction _____ Nearest Town _____
	_____ Miles _____ of <u>Brandon</u>

Pump Type Circle one	Power Type Circle one
Air Lift Jet Submersible	Diesel Engine Gasoline Engine Natural Gas
Bucket Piston <u>Turbine</u>	<u>Electric Motor</u> Hand Tractor PTO
Centrifugal Rotary Flowing Well	Windmill Other (specify): _____
Other (specify): _____	Horse Power Rating of Motor: <u>250</u>
Date Pump Installed: <u>10-13</u>	Setting Depth: <u>540</u> feet
Rated Pump Capacity: <u>1056</u> Gallons Per Minute	Number of Stages: <u>10</u>

Pump Test Data	Method of Measuring Water Level Circle one
Date Well Tested: <u>2-13</u>	Air Line <u>Electric Measuring Line</u> Steel Tape
Static Water Level (A): <u>373</u> Feet Below Land Surface	Other (specify): _____
Pumping Water Level (B): <u>450</u> Feet Below Land Surface	For flowing well, measured shut in head: _____ feet
Drawdown [(B) - (A)]: <u>77</u> Feet Below Land Surface	Well yielded <u>1056</u> GPM with a drawdown of
Test Pumping Rate: <u>1056</u> Gallons Per Minute	<u>77</u> feet after <u>8</u> hours of pumping
Duration of Pump Test (minimum 4 hours): <u>8</u> hours	

I HEREBY CERTIFY that the above statements are true to the best of my knowledge.

Bryan Herndon 0-700
 Print Name of Pump Installer and License No. (if applicable)


 Signature of Pump Installer

Gw-16942 Rankin County L-89

December 12, 2012

**Driller's Log
City of Brandon
#2012RM1000**

<u>DEPTH</u>	<u>DESCRIPTION</u>
0-32	fill dirt/white clay/green clay
32-61	green/white clay/green clay and shale
61-91	clay/shale/sand
91-121	sand/clay/shale rock
121-157	clay w/lignite streak
157-187	sand/clay/w/lignite streak/sand
187-218	clay
218-244	mostly clay/sandy breaks
244-275	mostly clay/shale streaks
275-306	mostly clay/sandy breaks
306-338	mostly clay/sandy breaks/shale streaks
338-369	mostly clay/shale/clay
369-401	clay w/shale
401-432	clay w/shale
432-464	clay w/shale
464-495	clay w/shale
495-526	clay w/shale
526-558	clay w/shale
558-589	clay w/shale
589-620	clay/shale/sand
620-652	clay/sand
652-683	clay/sand/shale
683-715	clay/shale/sand
715-747	clay/shale/sand
747-778	clay/shale/sand
778-809	clay/shale/sand
809-840	clay/shale/sand/lignite
840-870	clay/sand/shale
870-902	clay/shale
902-933	clay/shale
933-964	clay/shale
964-995	clay/shale
995-1027	clay/shale rock
995-1027	clay/shale rock/sand
1027-1058	clay/shale rock/sand
1058-1088	shale/sand/clay
1088-1120	sand/clay/shale
1120-1151	sand/clay/shale
1151-1183	sandy clay/shale
1183-1214	sandy clay/shale
1214-1246	sandy clay/shale
1246-1277	sandy clay/shale
1277-1309	sandy clay/shale
1309-1340	sandy clay/shale
1340-1372	sandy clay/shale
1372-1404	sand/shale
1404-1435	shale/sand/lignite
1435-1467	sand/shale/lignite
1467-1497	sand/shale/lignite/clay

Gw-16942 Rankin County L-89

December 12, 2012

**Driller's Log
City of Brandon
#2012RM1000**

1497-1528 mostly clay/sandy break
1529-1560 clay/shale break/sand
1560-1591 sand/clay/shale break
1591-1622 clay/sand/shale
1622-1564 clay/shale

GRINER DRILLING SERVICE

GRINER DRILLING SERVICE Inc.

COLUMBIA, MISS. (800) 221-4098
 MOBILE, ALA. (800) 592-9355
 RAYNE, LA. (888) 840-6747

COMPANY CITY OF BRANDON
 WELL ID ~~TEST~~ WELL
 FIELD 152-192 WHITFIELD RD.
 COUNTRY STATE MS

*Gw-16942-
L-89*

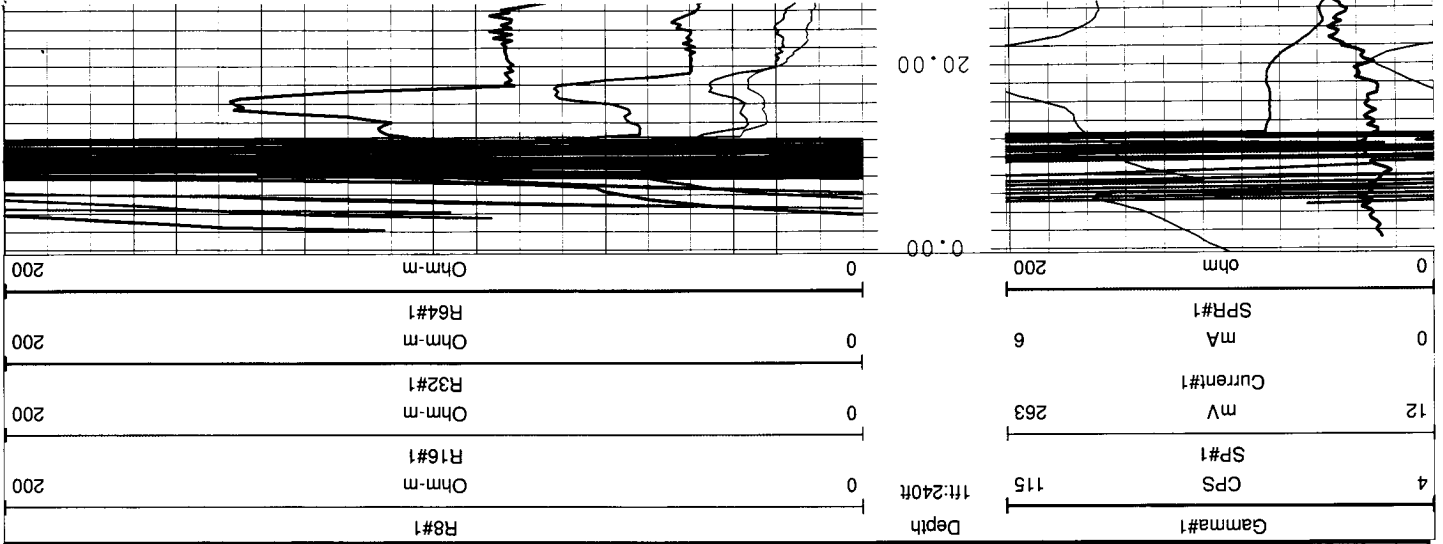
LOCATION OTHER SERVICES

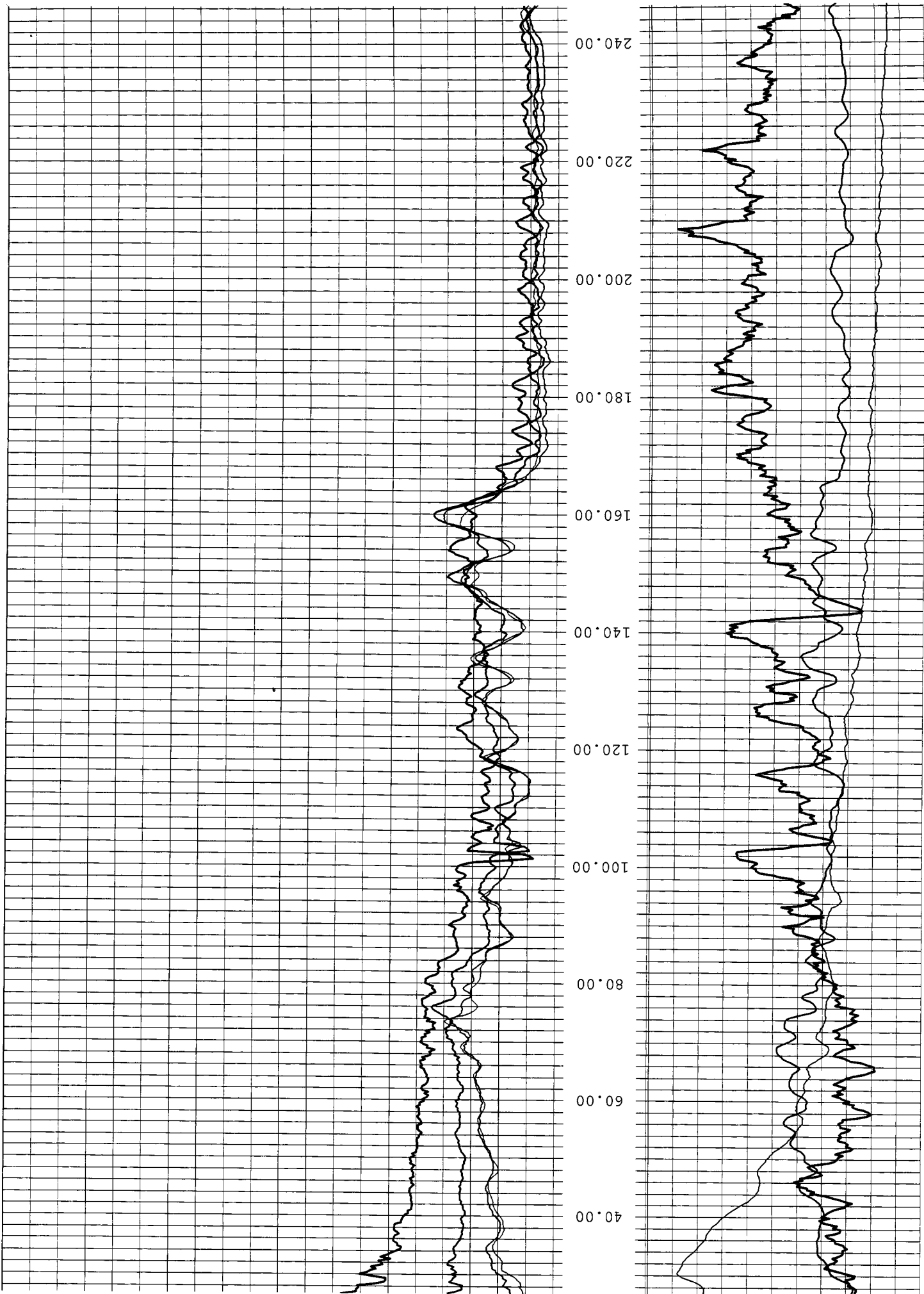
SEC 21 TWP 05N RGE 03E
 ELEVATION 409 FT.
 ABOVE PERM. DATUM

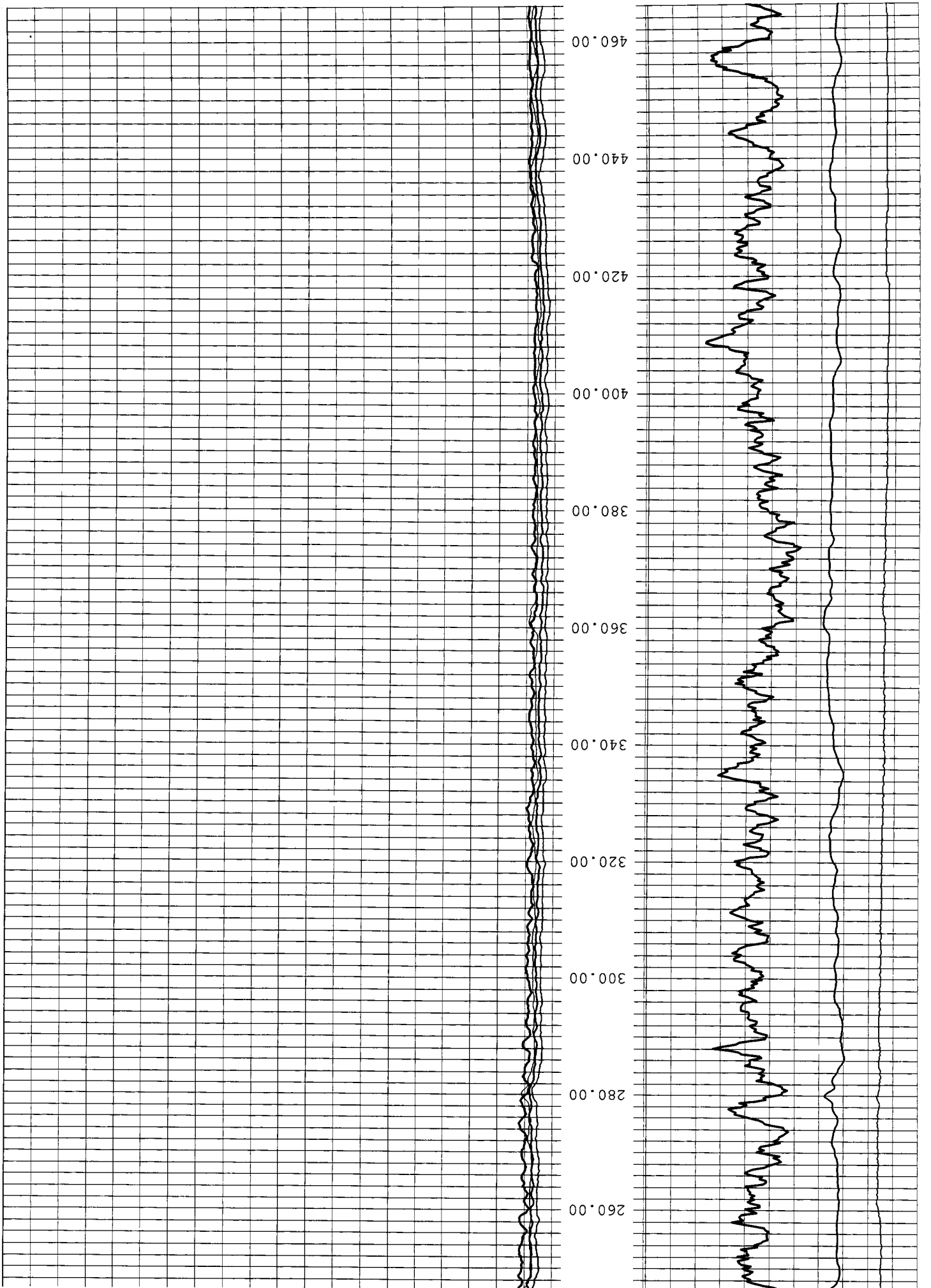
K.B.
 D.F.
 G.L.

PERMANENT DATUM	LOG MEAS. FROM	G/L
DRILLING MEAS. FROM/G/L		
DATE	DEC 12 2012	TYPE FLUID IN HOLE
RUN No	ONE	SALINITY
TYPE LOG	ELOG.GAMMA	DENSITY
DEPTH-DRILLER	1650 FT.	LEVEL
DEPTH-LOGGER		MAX. REC. TEMP.
BTM LOGGED INTERVAL		LONGITUDE
TOP LOGGED INTERVAL	7.50 FT.	LATITUDE
OPERATING RIG TIME		
RECORDED BY	MIKE GRINER	
WITNESSED BY		

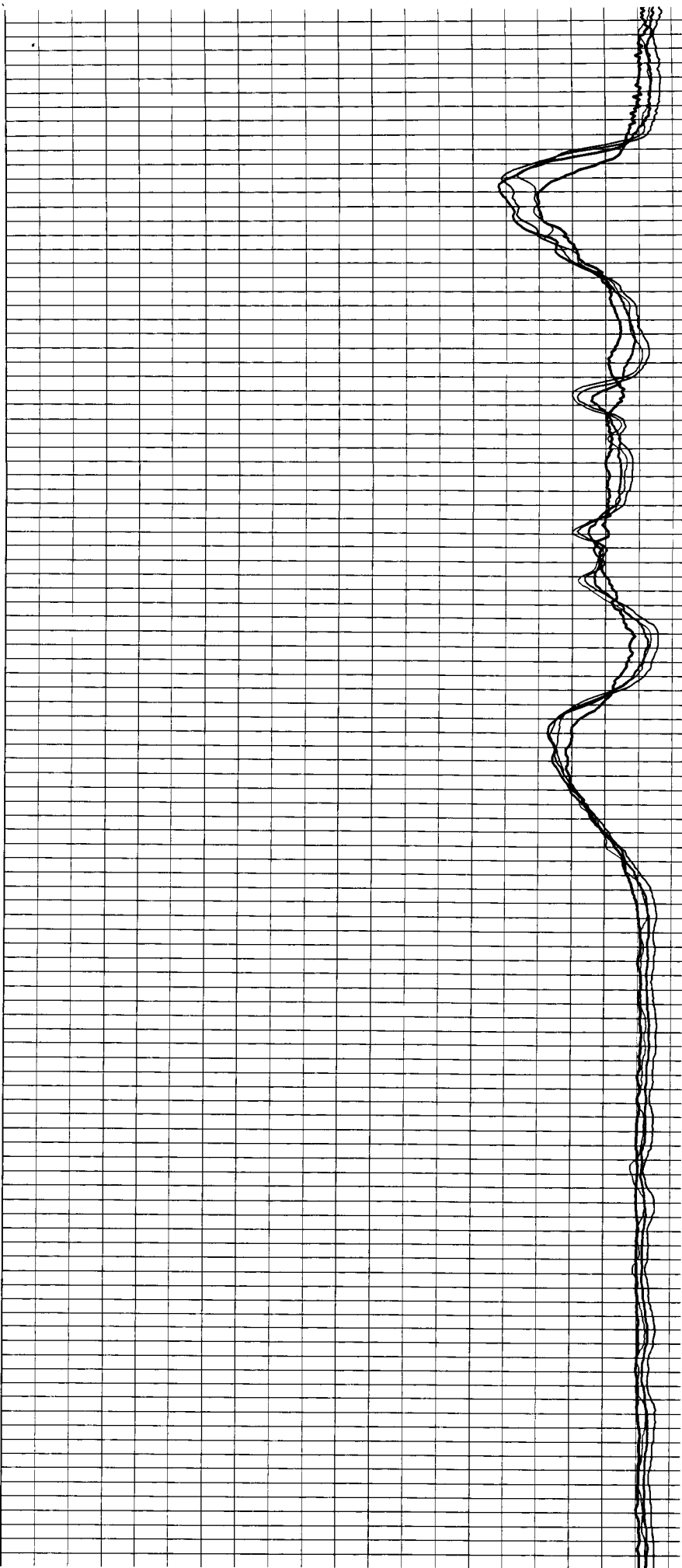
BOREHOLE RECORD		CASING RECORD	
NO.	BIT	FROM	TO
		SIZE	WGT.
		FROM	TO

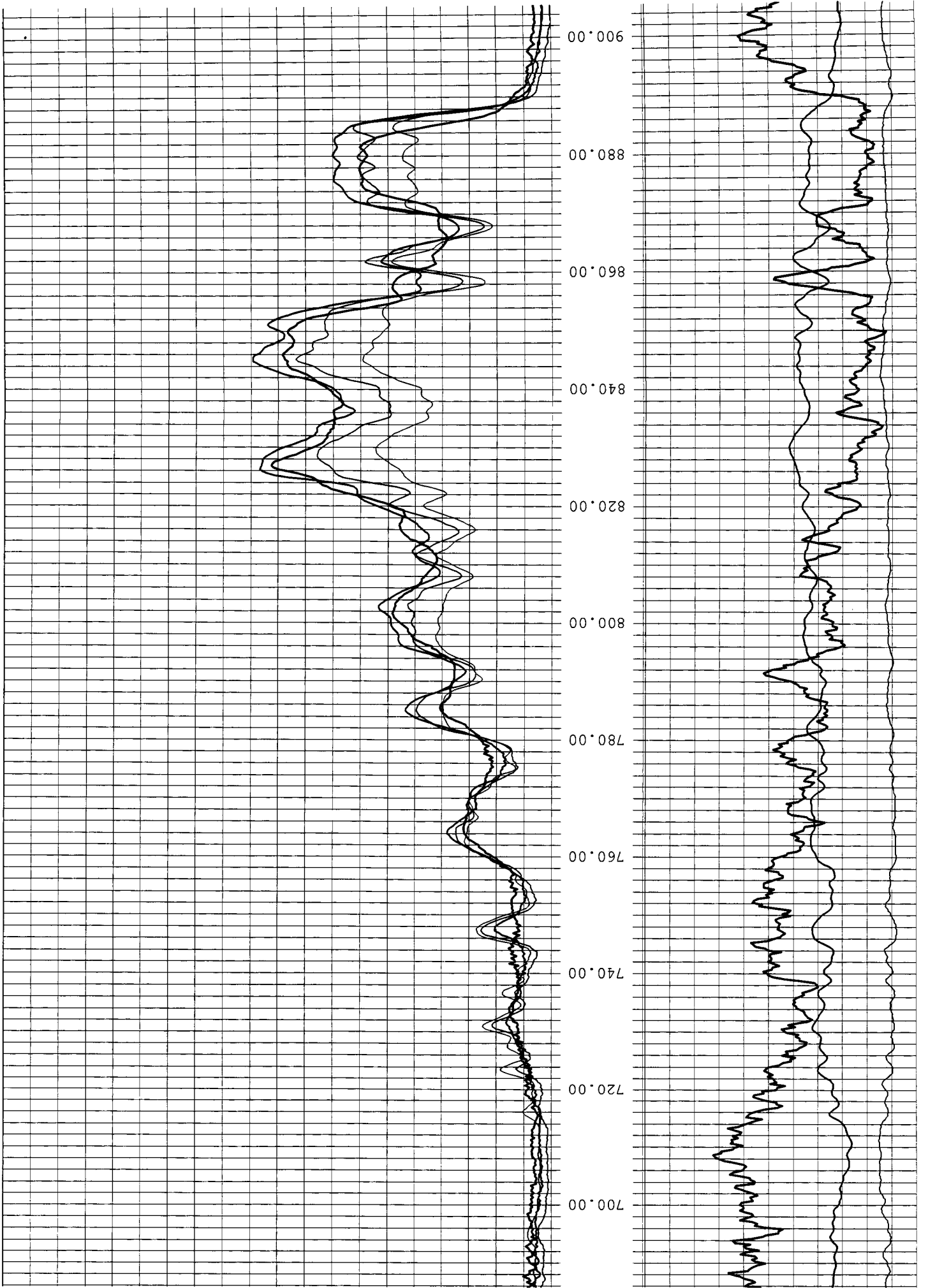


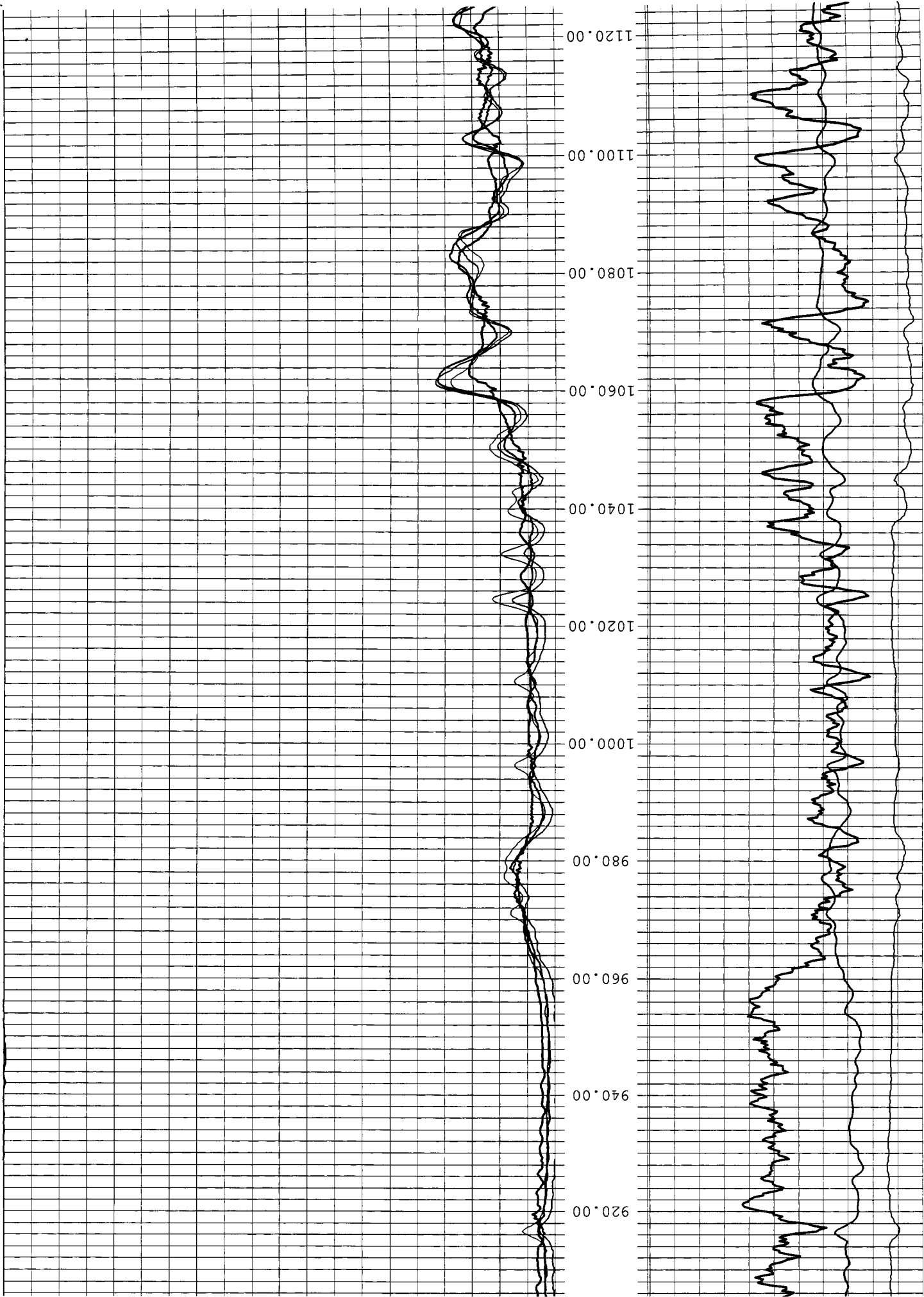


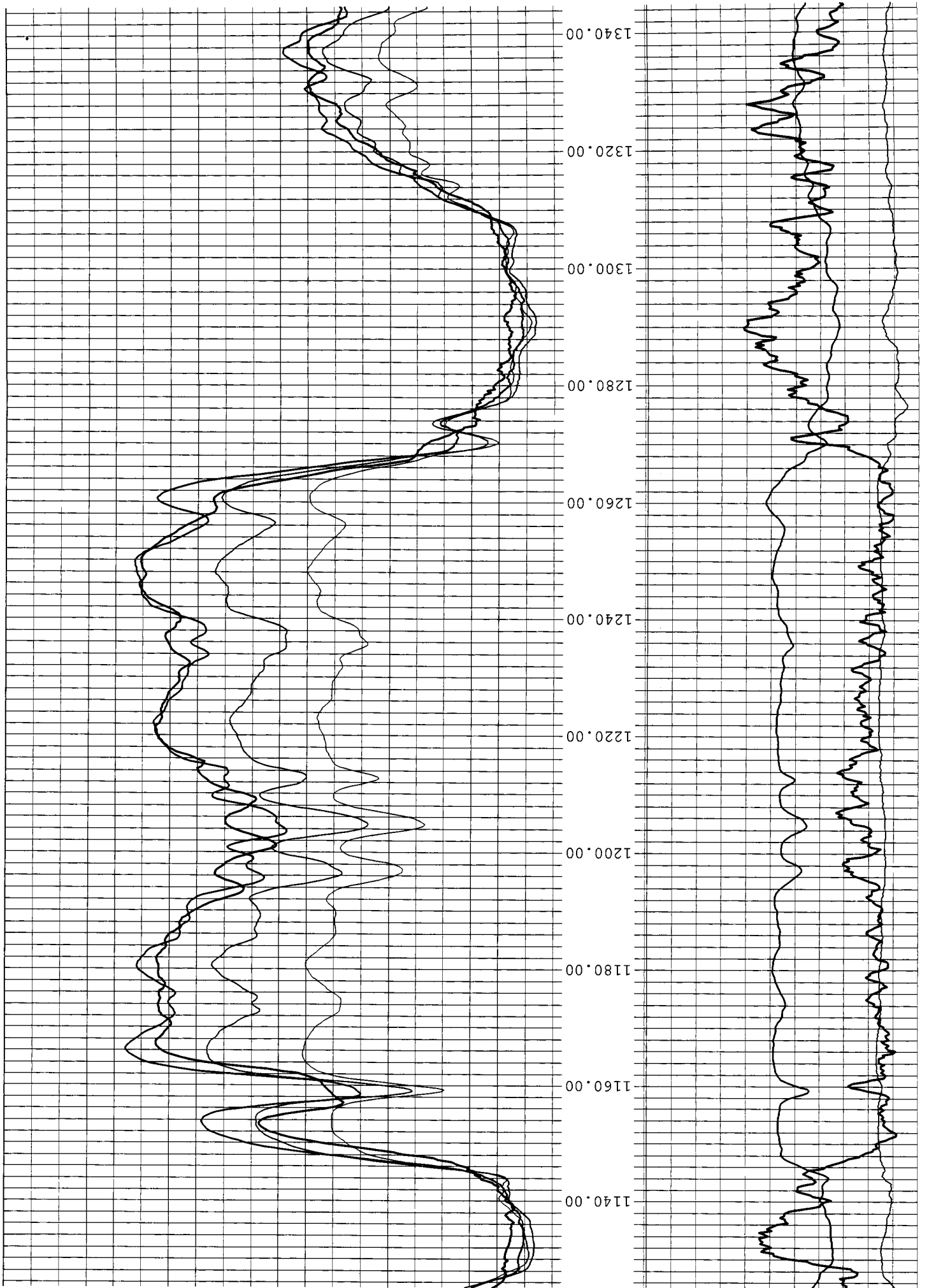


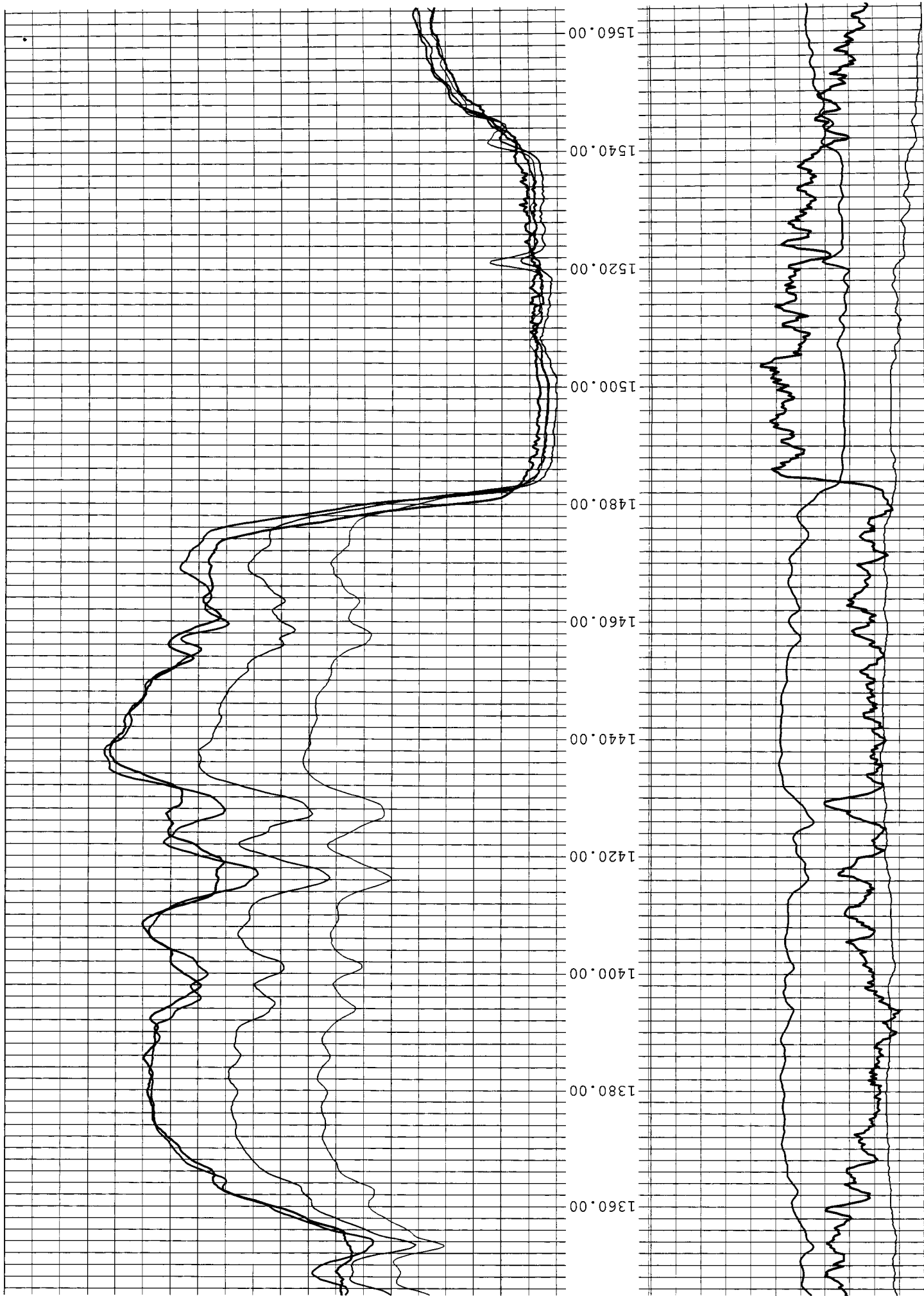
680.00
660.00
640.00
620.00
600.00
580.00
560.00
540.00
520.00
500.00
480.00











4	CPS	115	0	Ohm-m	200
12	Gamma#1	263	0	Ohm-m	200
0	mV	6	0	Ohm-m	200
0	SP#1	6	0	Ohm-m	200
0	mA	6	0	Ohm-m	200
0	Current#1	200	0	Ohm-m	200
0	ohm	200	0	Ohm-m	200
SPR#1		R64#1			

