



SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well New Elk 36-05
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09236 00

2345' FNL & 822' FWL

SEC 36 TWP 33S RGE 68W

Permanent Datum Ground Level Elevation 8199'
Log Measured From Ground Level
Drilling Measured From Ground Level

Other Services
dill
Elevation
K.B. -----
D.F. -----
G.L. 8199'

Date 2-15-08

Run Number One

Depth Driller 2415'

Depth Logger 2410'

Bottom Logged Interval 2387'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 465'

Casing Logger 450'

Bit Size 7 7/8"

Type Fluid in Hole Water

Density / Viscosity ///

pH / Fluid Loss ///

Source of Sample ///

Rm @ Meas. Temp ///

Rmf @ Meas. Temp ///

Rmc @ Meas. Temp ///

Source of Rmf / Rmc ///

Rm @ BHT ///

Time Circulation Stopped 2:30 A.M.

Time Logger on Bottom 7:45 A.M.

Maximum Recorded Temperature 108 DEGF

Equipment Number T0701

Location Trinidad

Recorded By C. Sistreros

Witnessed By Mr. Don Johnson

>>> Fold Here >>>

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 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 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.

Comments

Compensated Density Neutron Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5.5" Casing.
Well Directions:
Second Bosque entrance, across tracks, stay left at Y,
to Cuerele Canyon, thru green gate, take first right,
location is the Seventh drive thru location.



SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

Main Pass

Database File: xtone3605.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Fri Feb 15 09:37:32 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

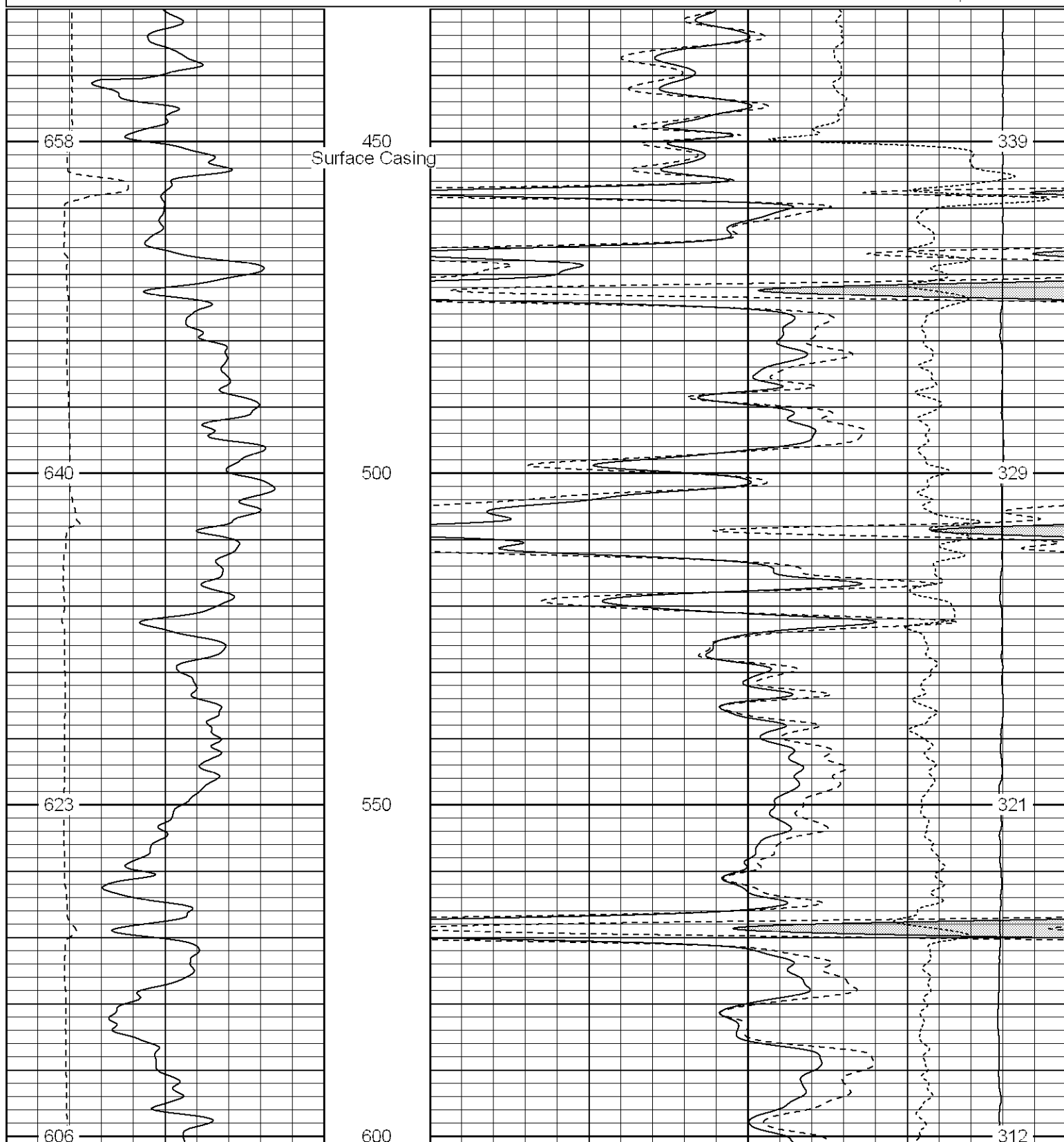
0	GR (GAPI)	200
6	DCAL (in)	16

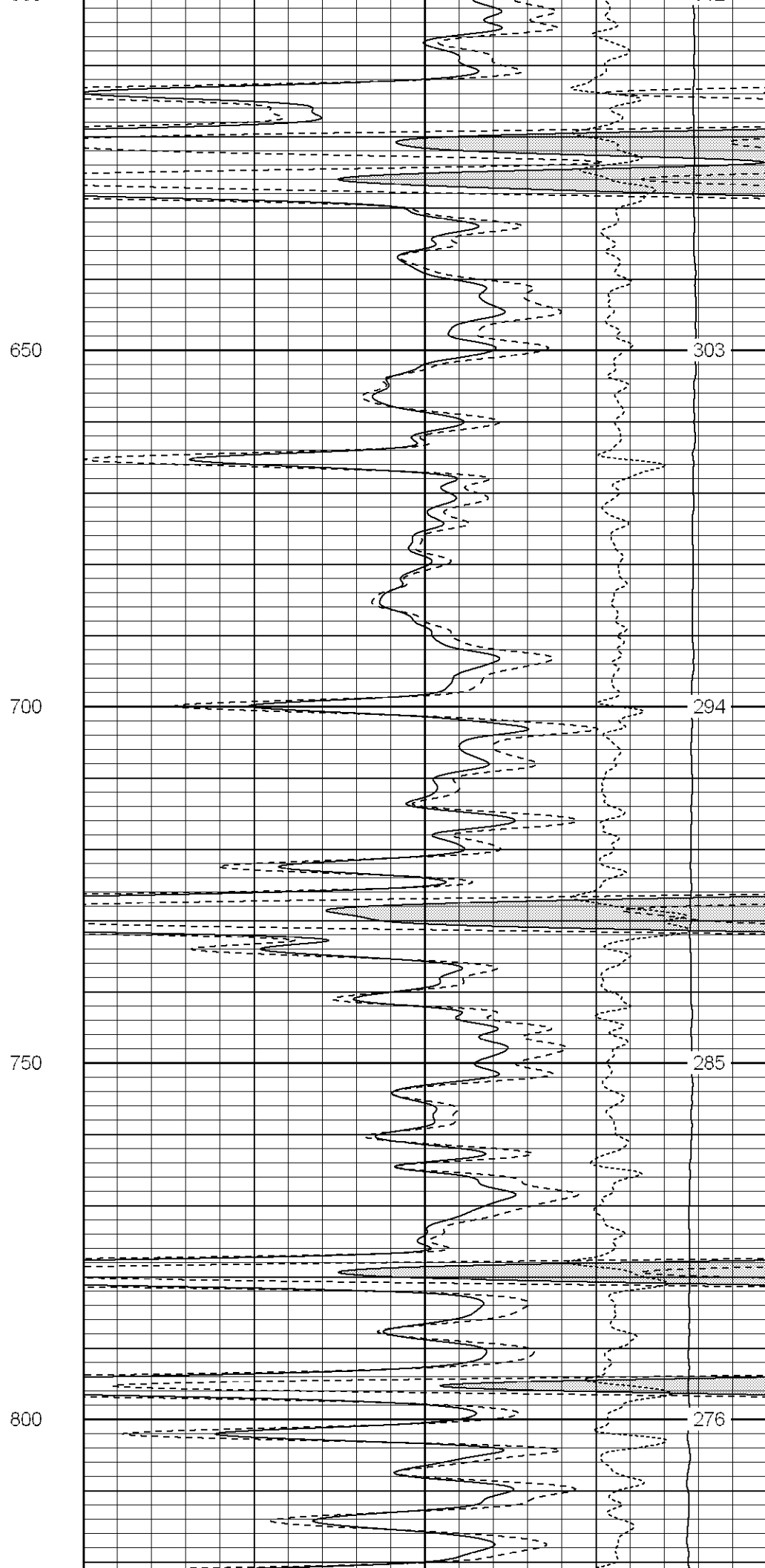
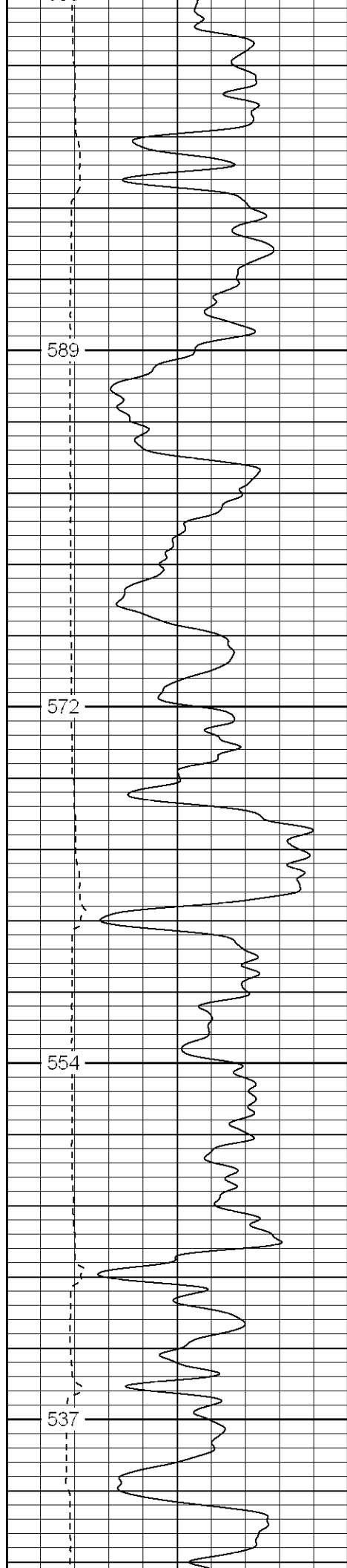
TBHV (ft3)		

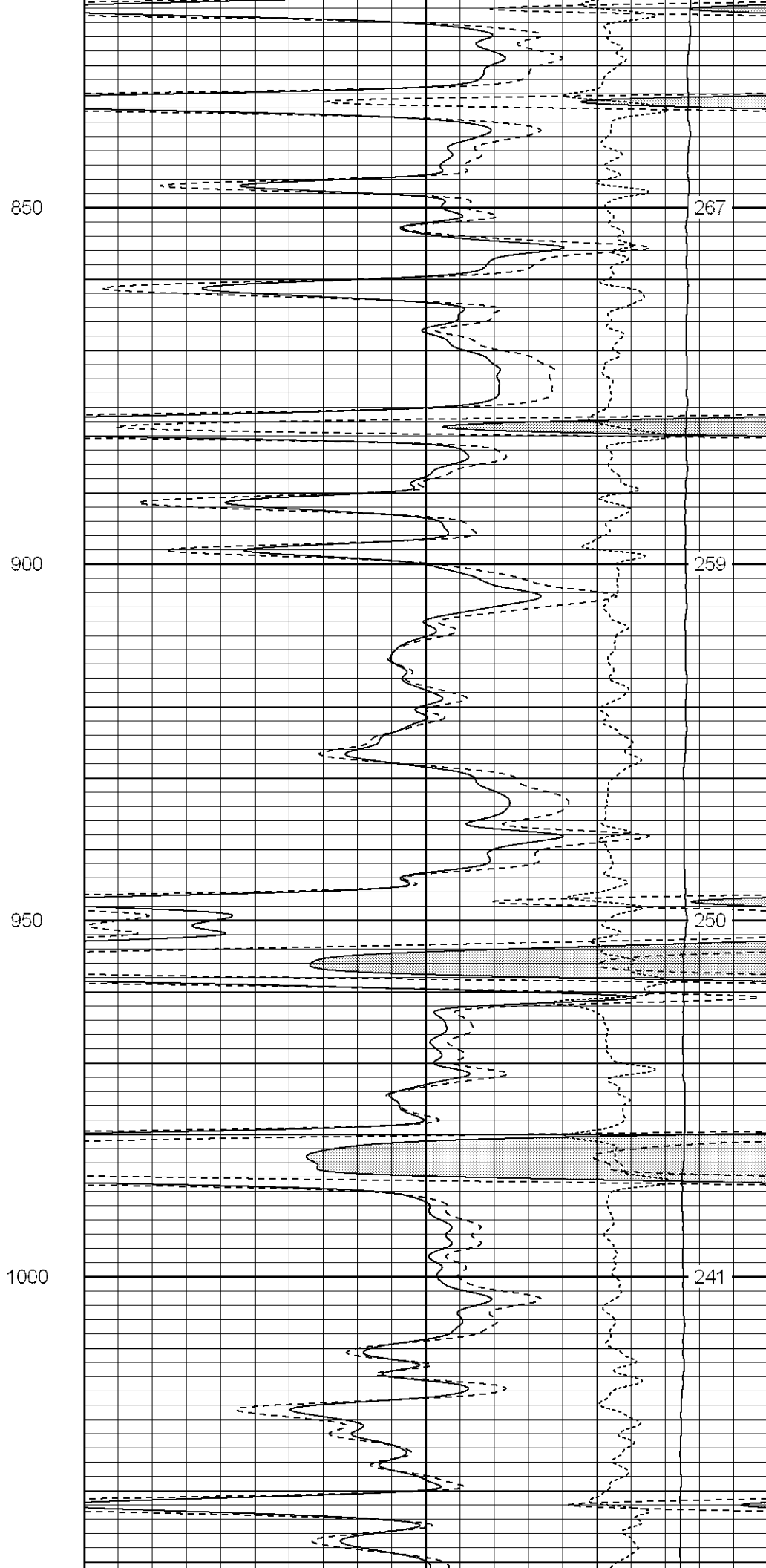
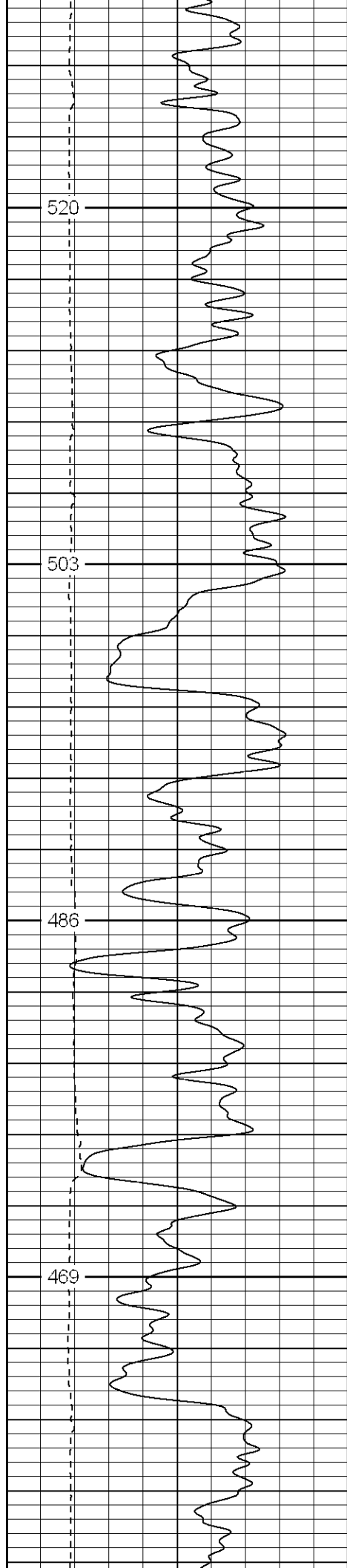
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10

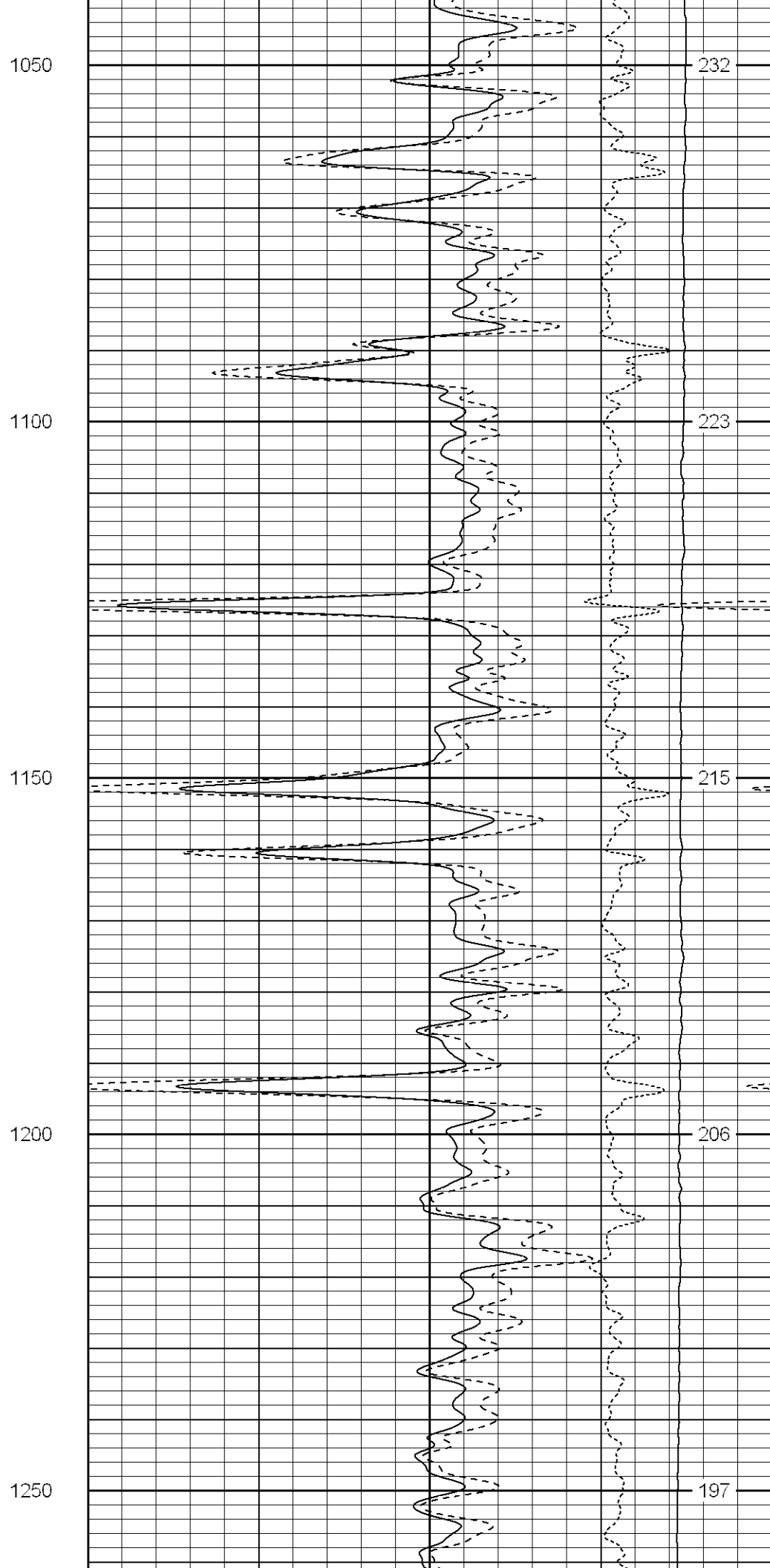
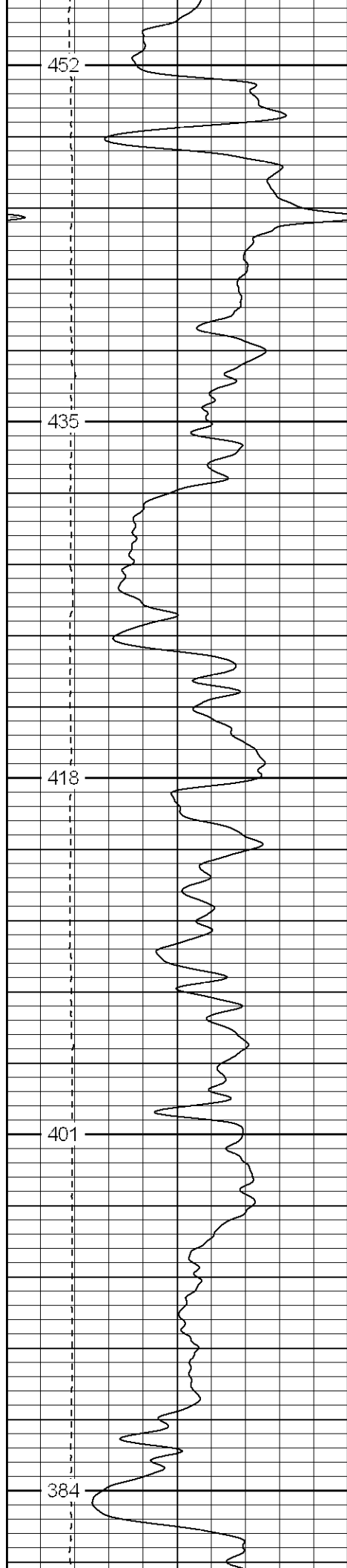
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

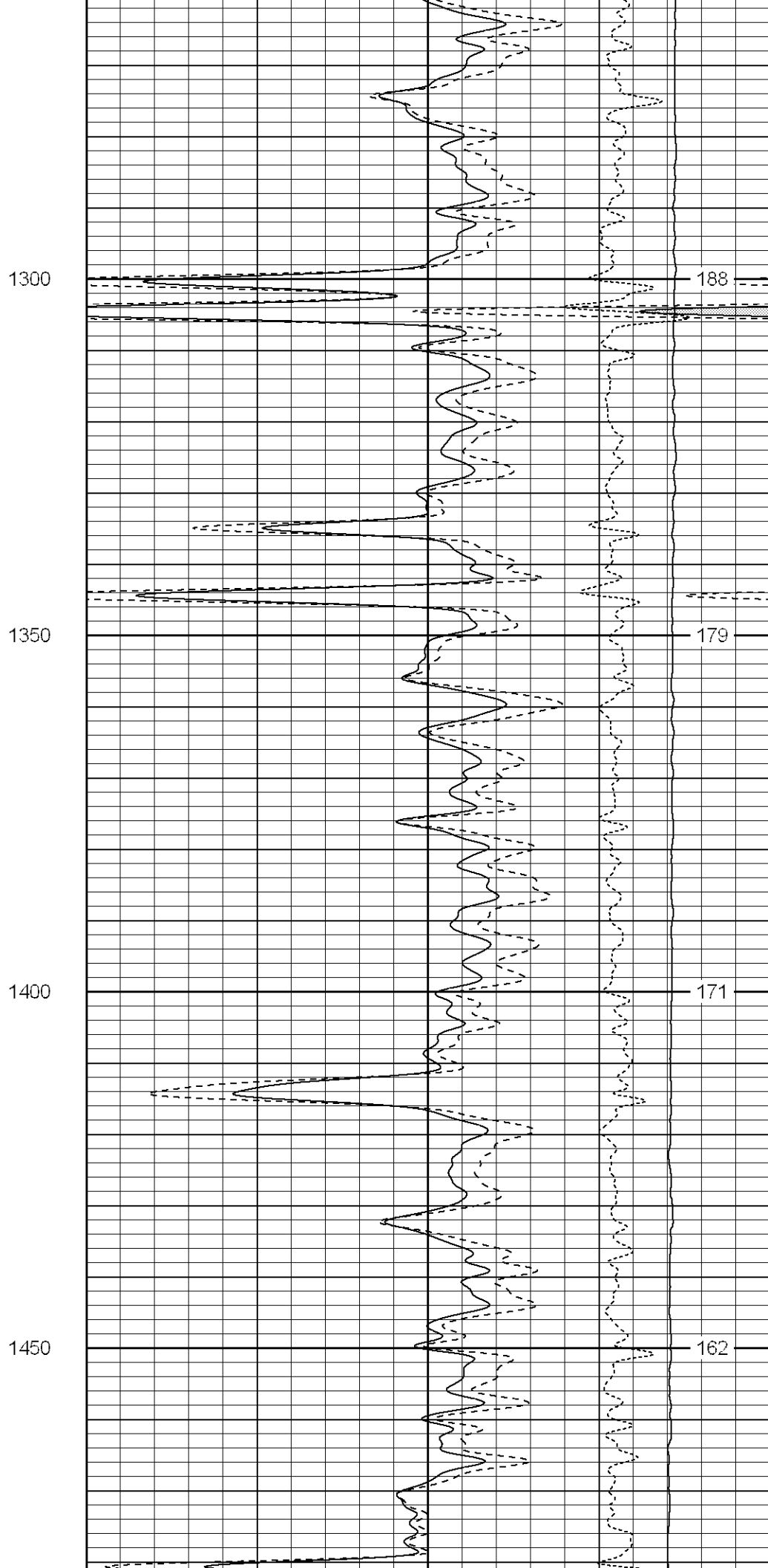
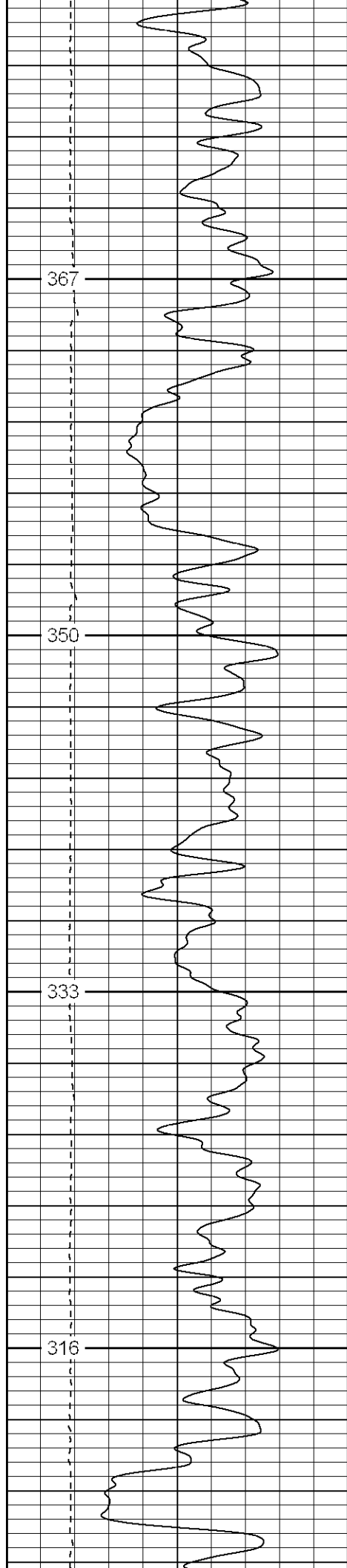
	ABHV (ft3)	

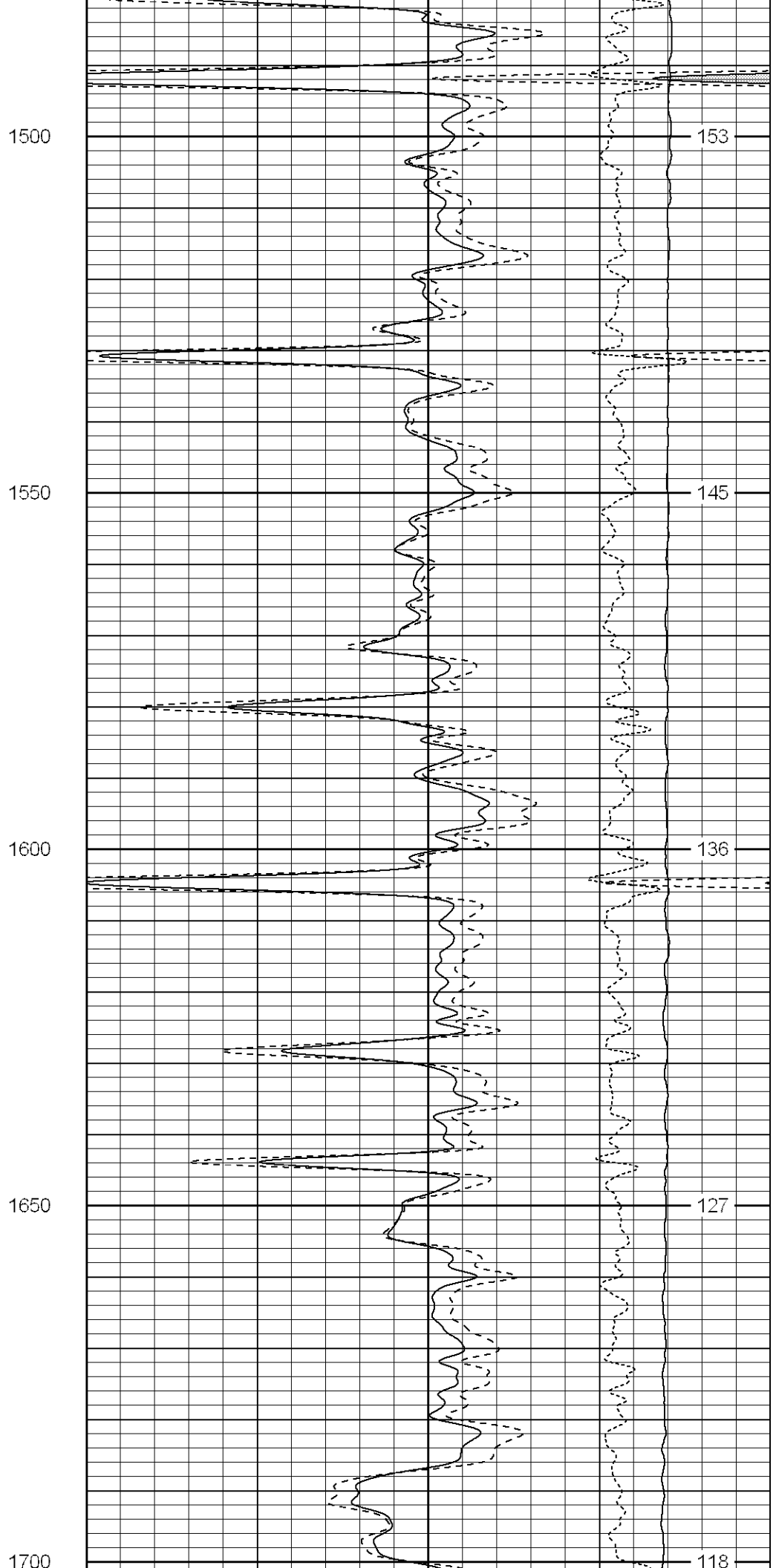
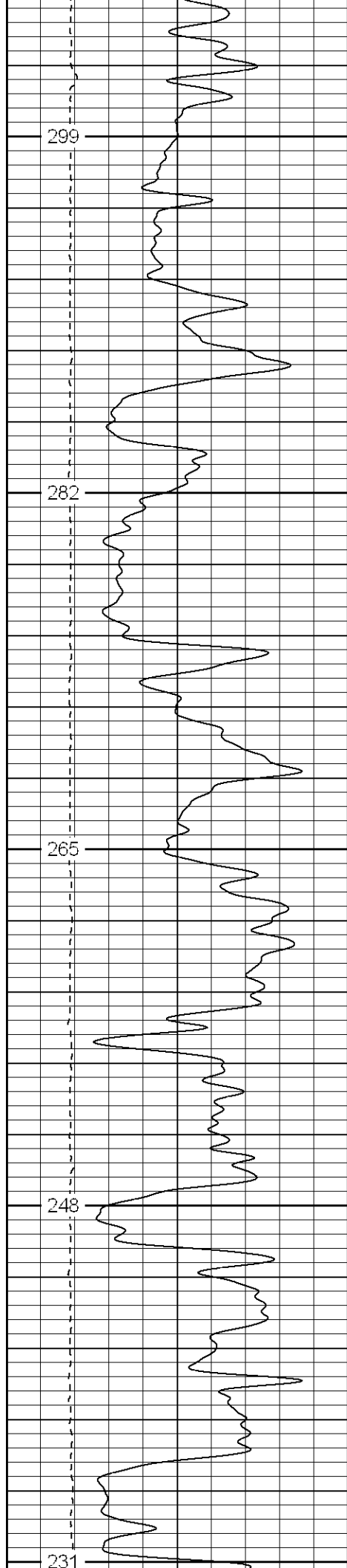


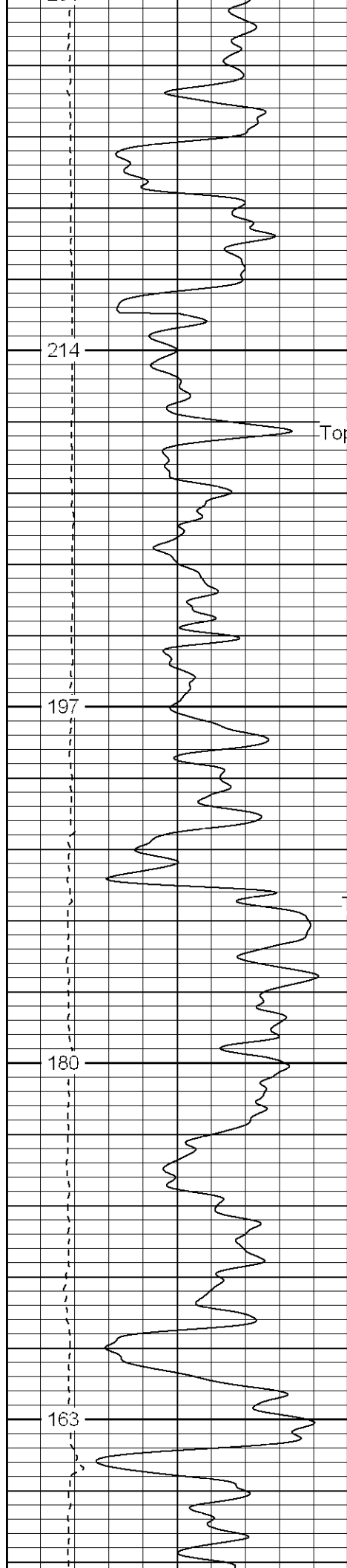












1750

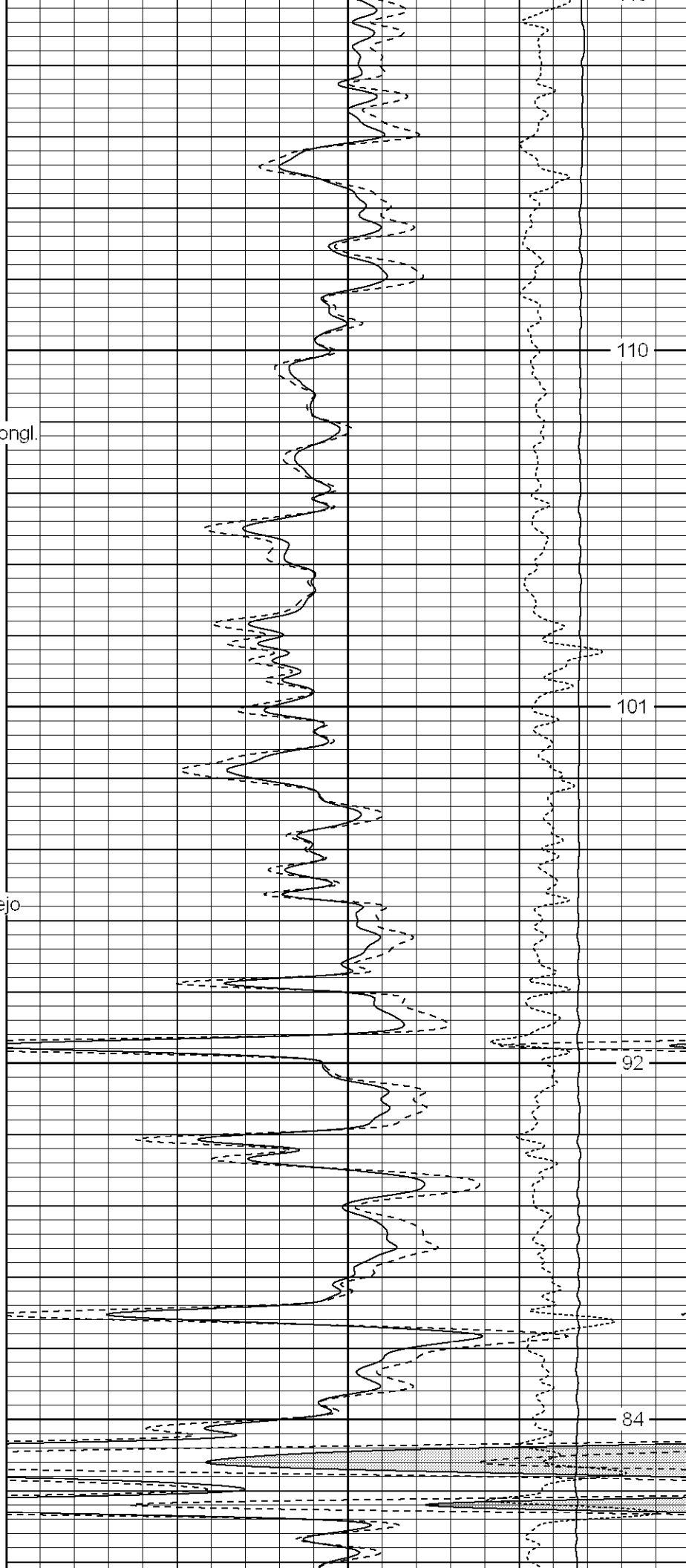
Top of Raton Congl.

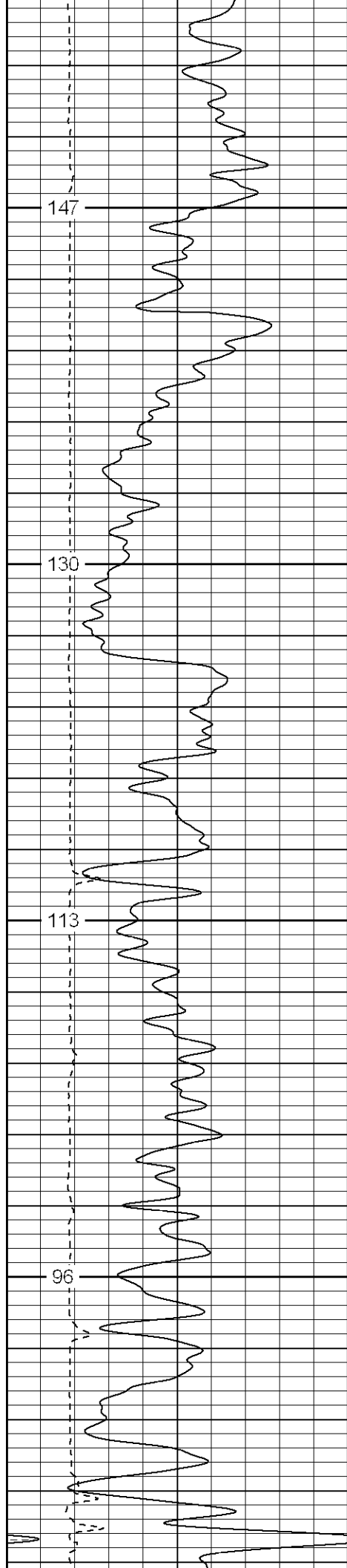
1800

Top of Vermejo

1850

1900



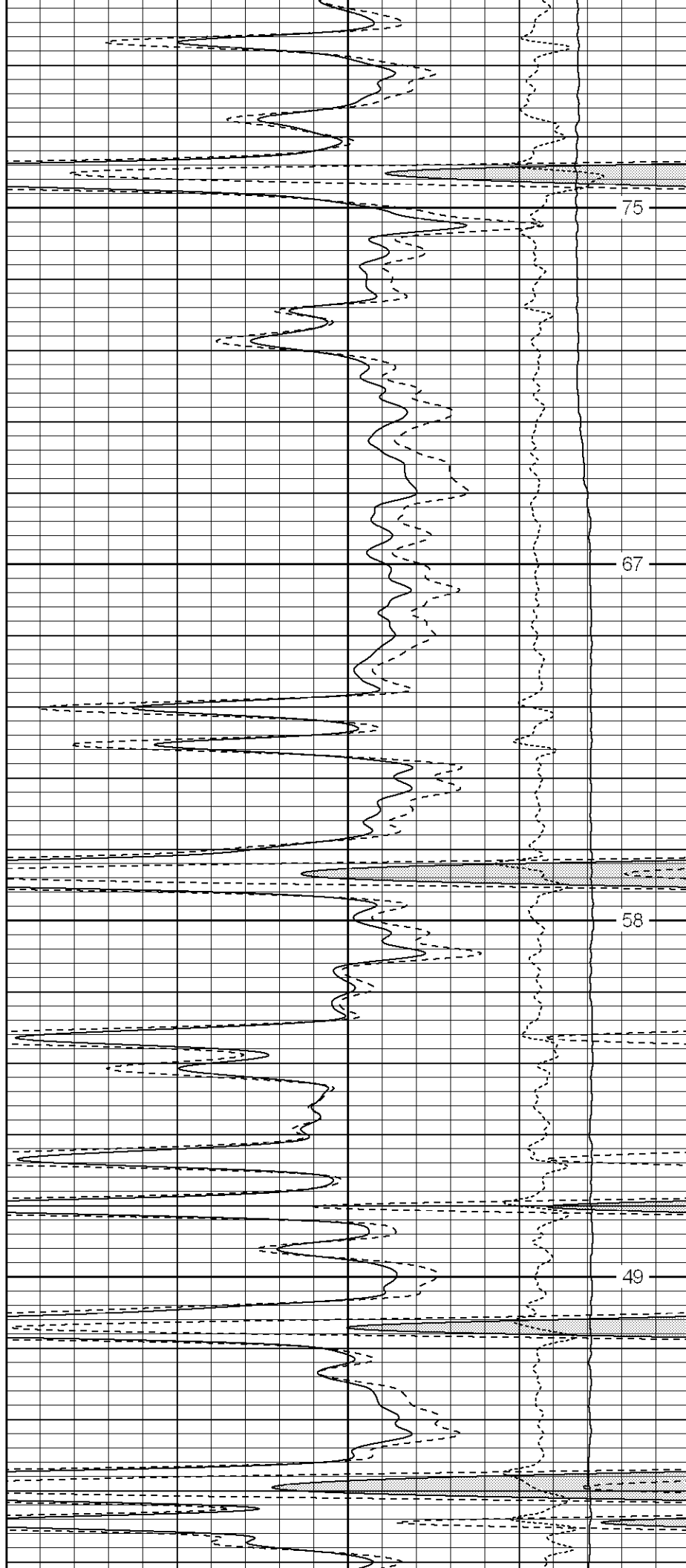


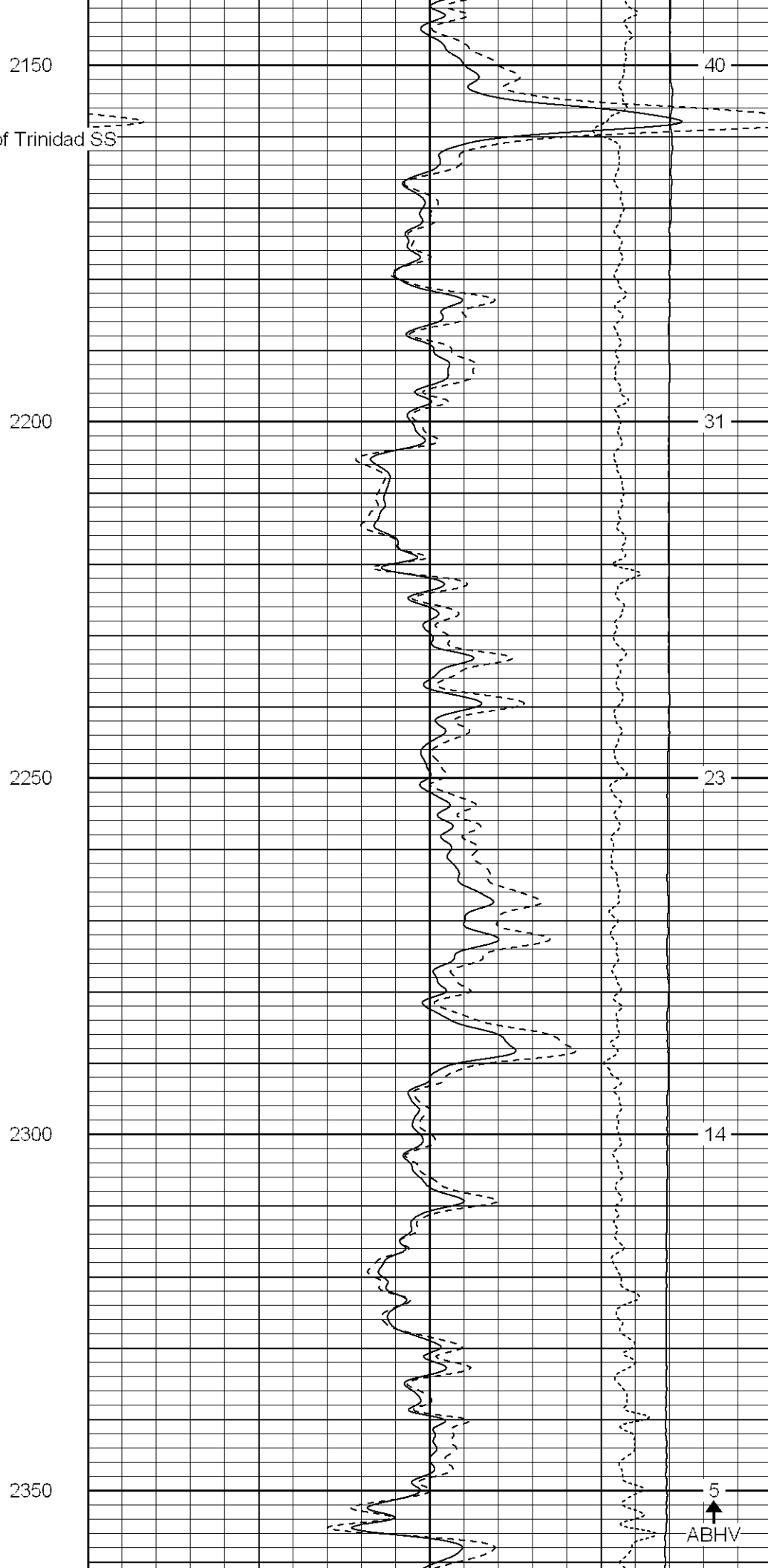
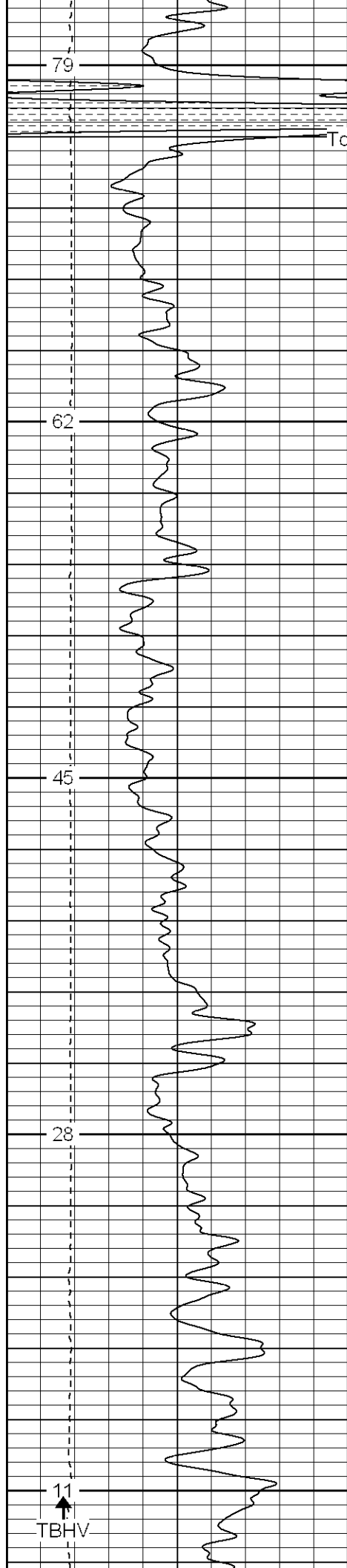
1950

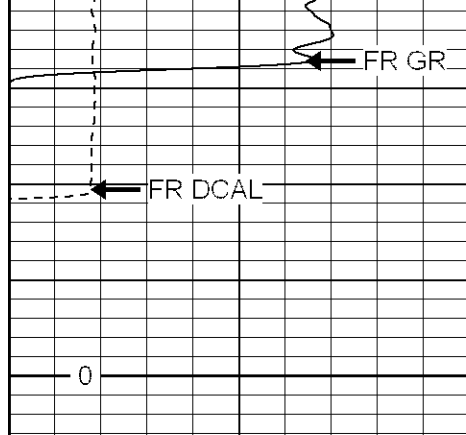
2000

2050

2100

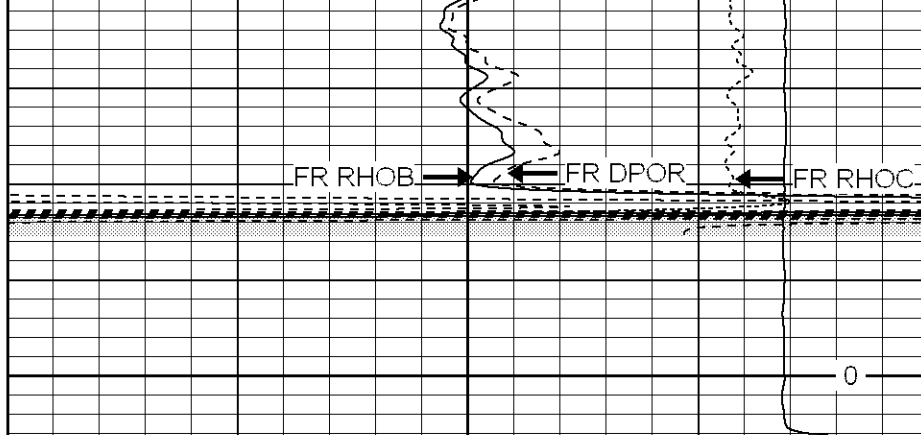






0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

2400



2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		



SUPERIOR

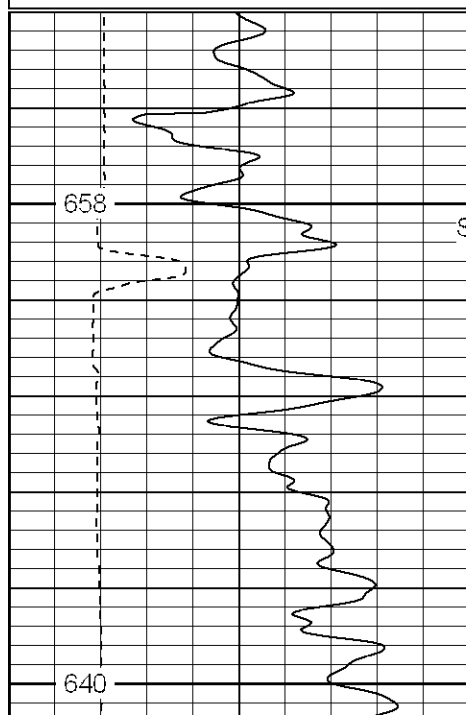
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

Main Pass

Database File: xtone3605.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Fri Feb 15 09:37:32 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

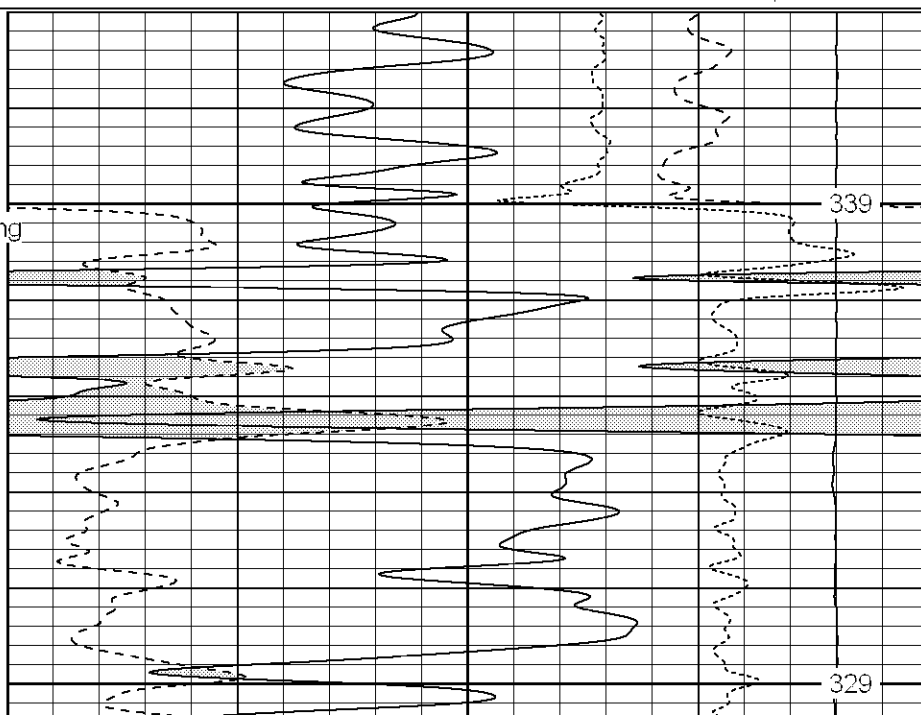
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

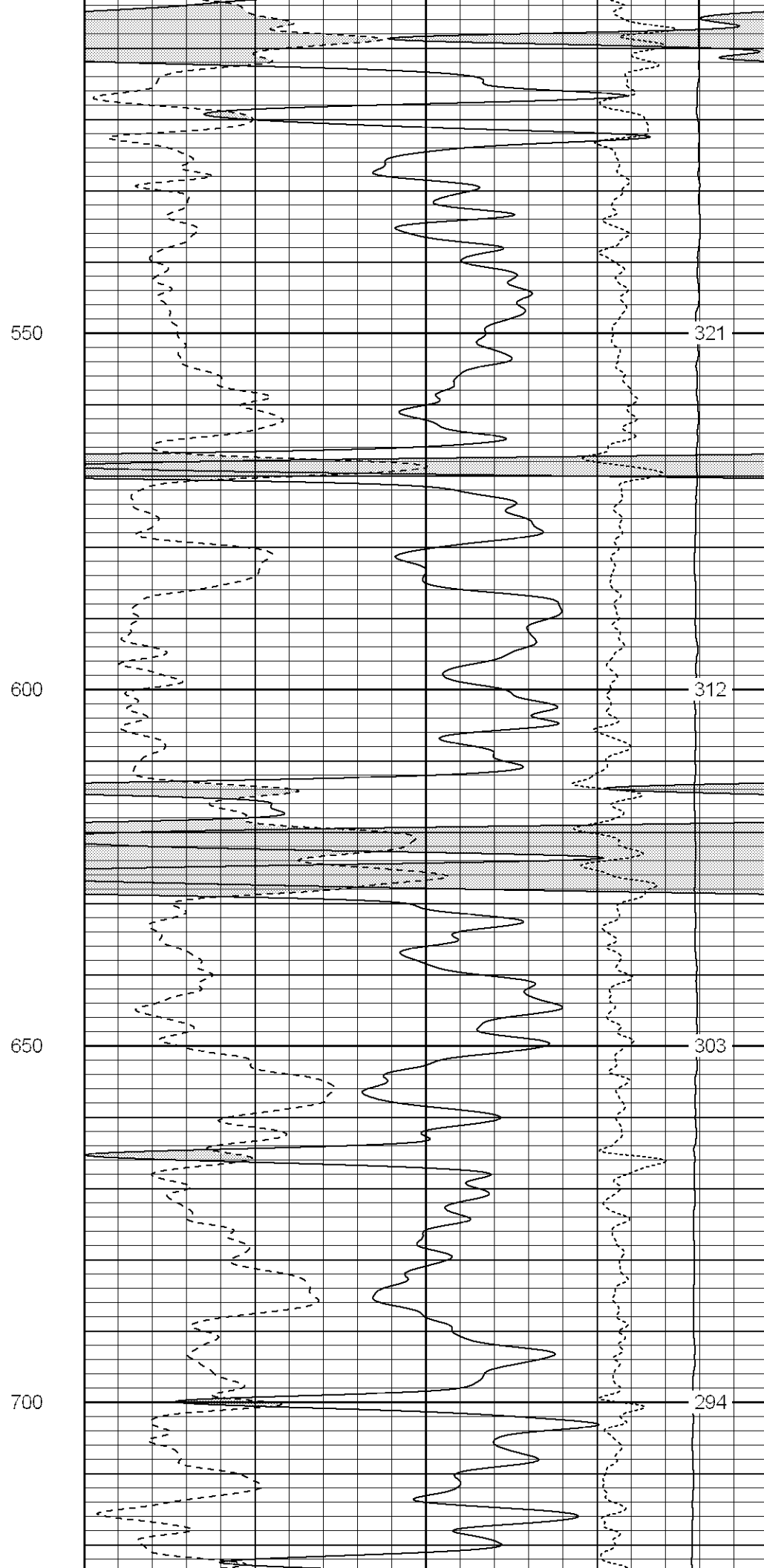
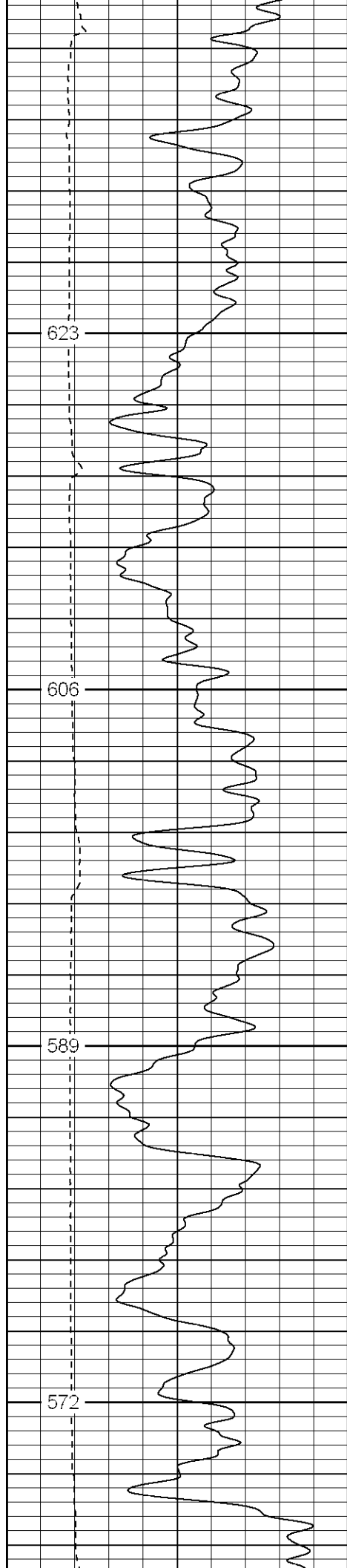
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		

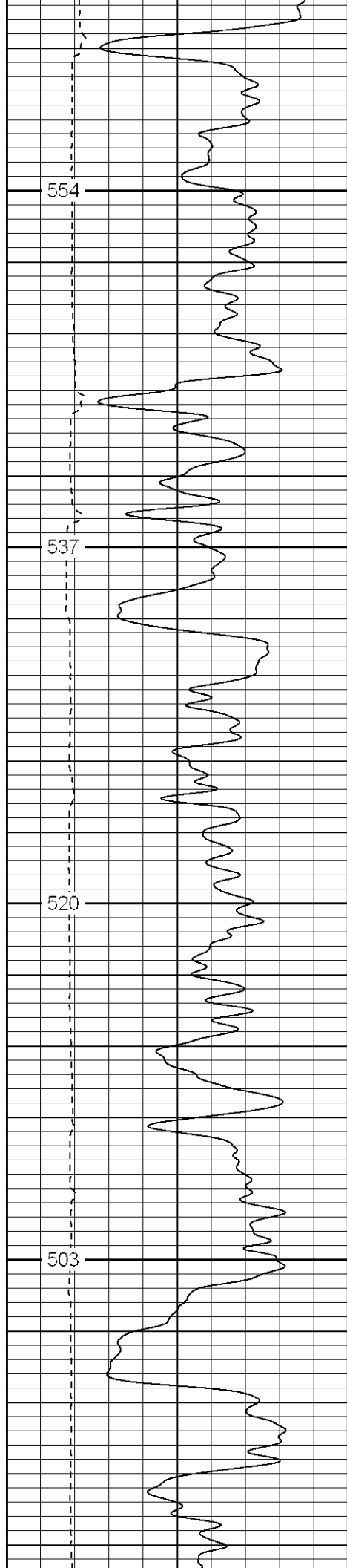


450
Surface Casing

500





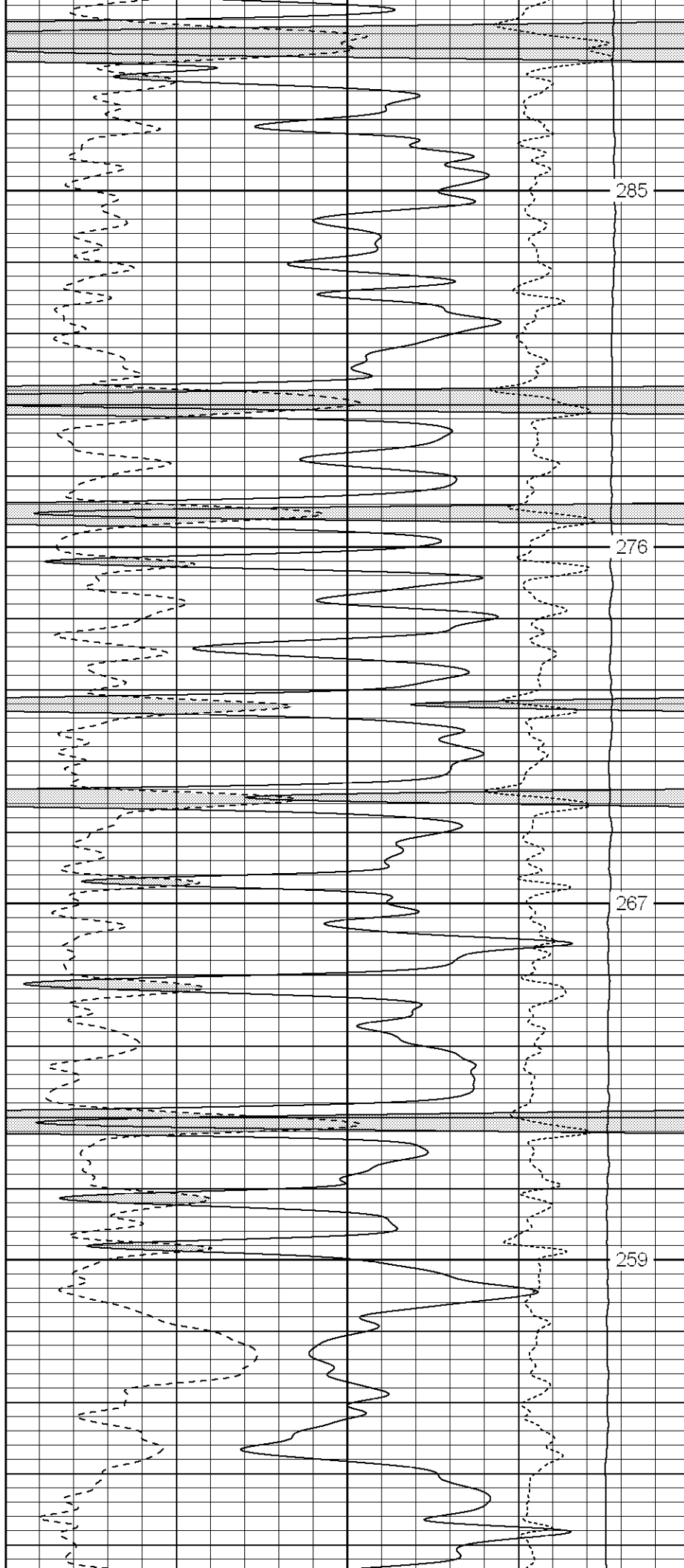


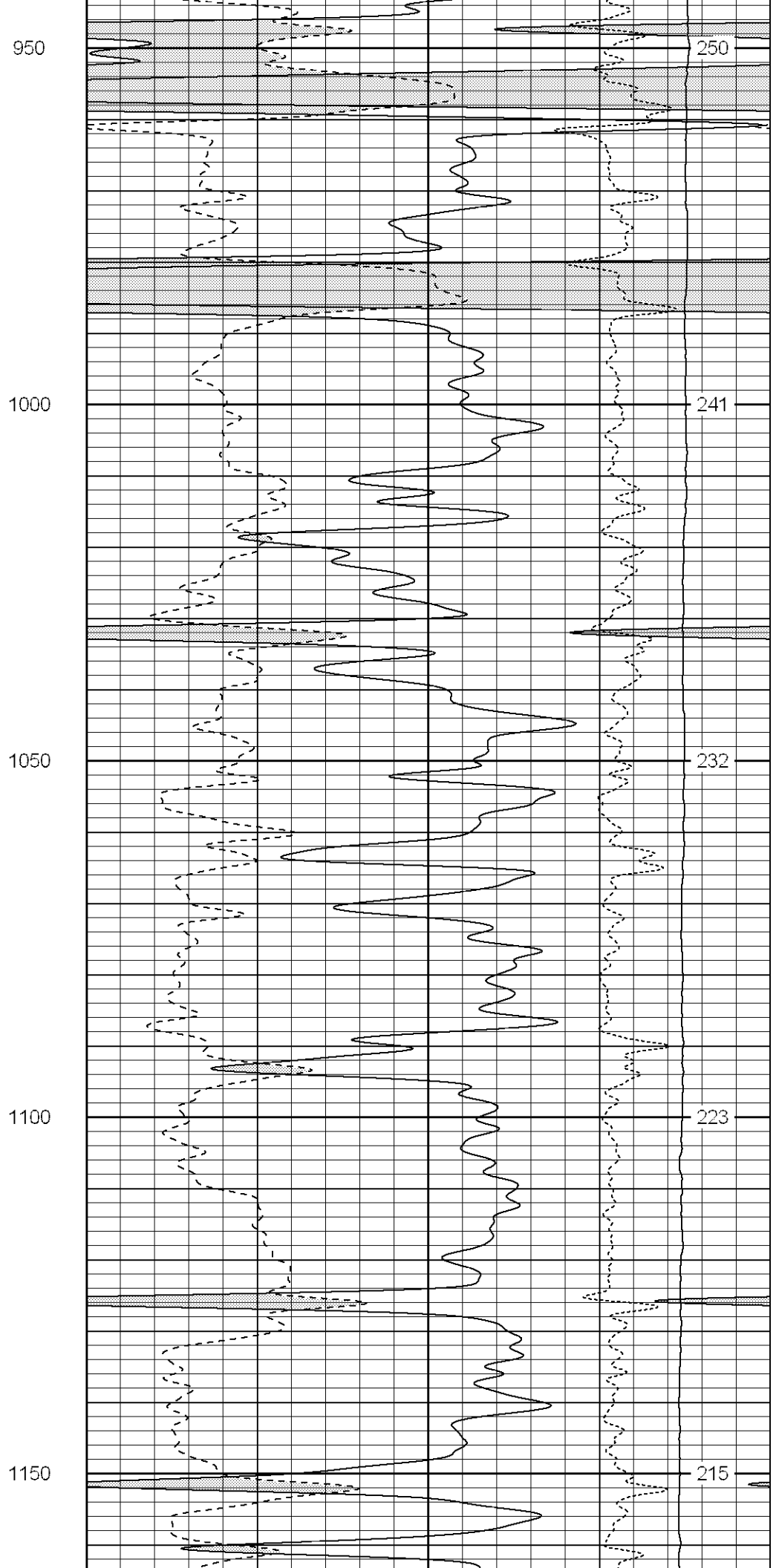
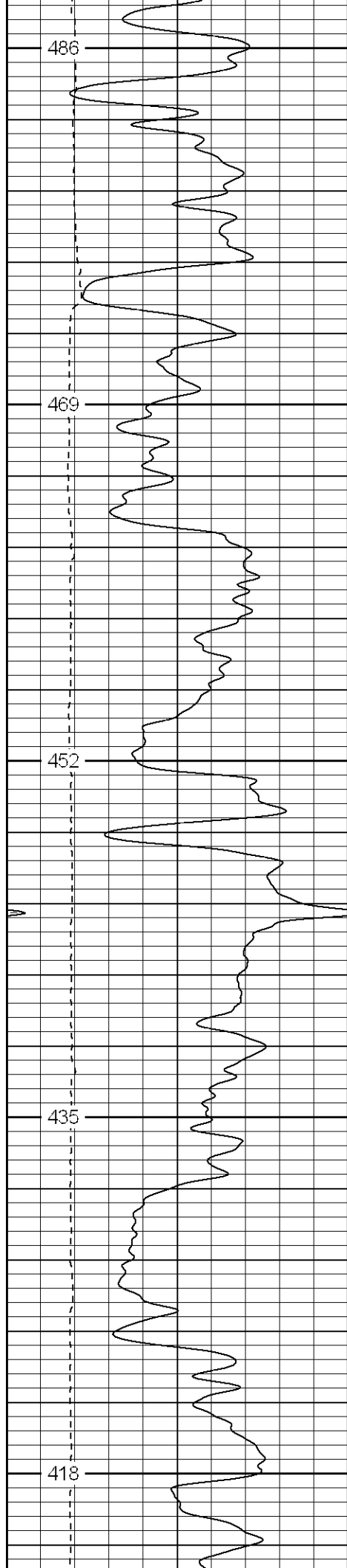
750

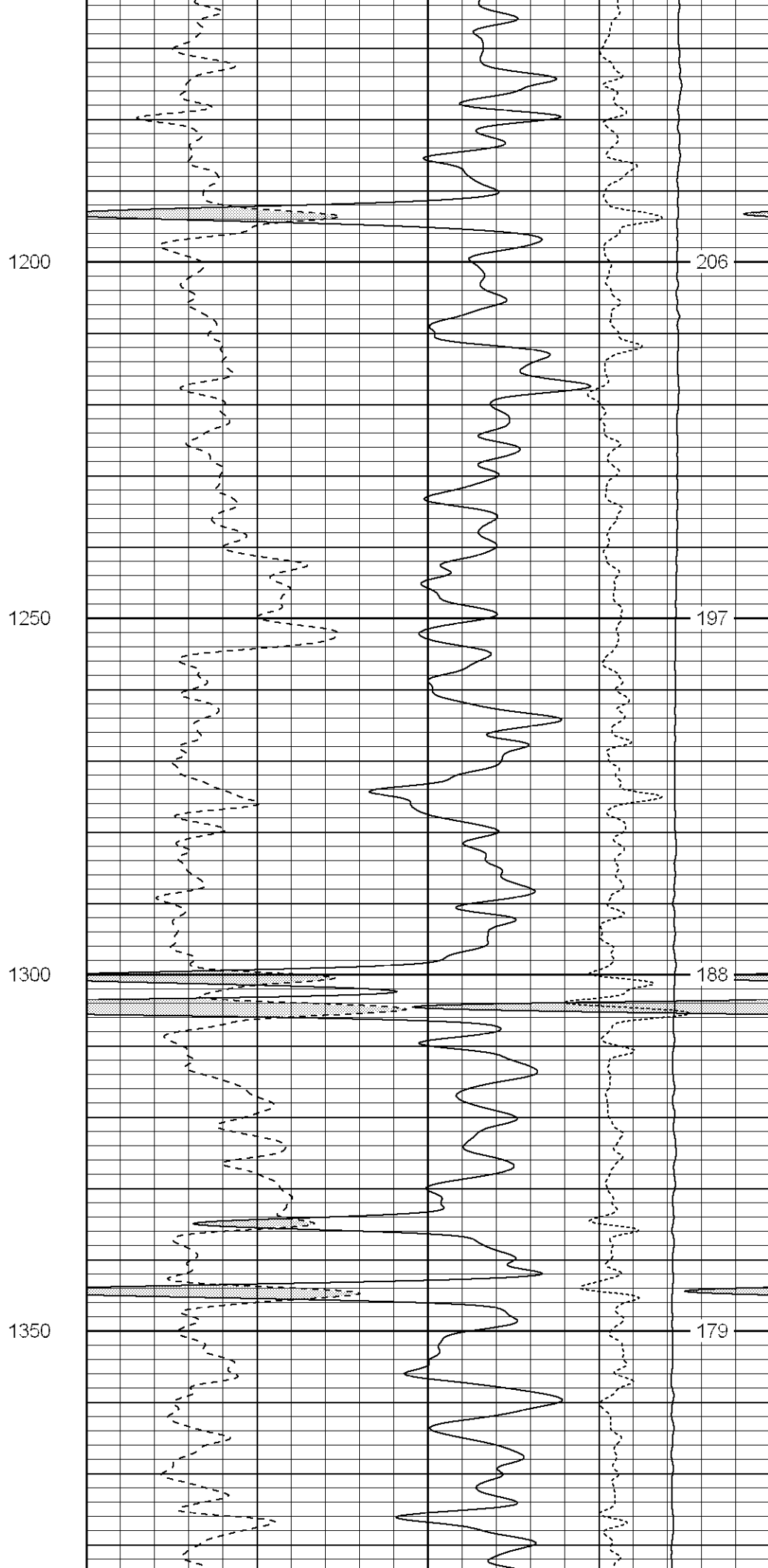
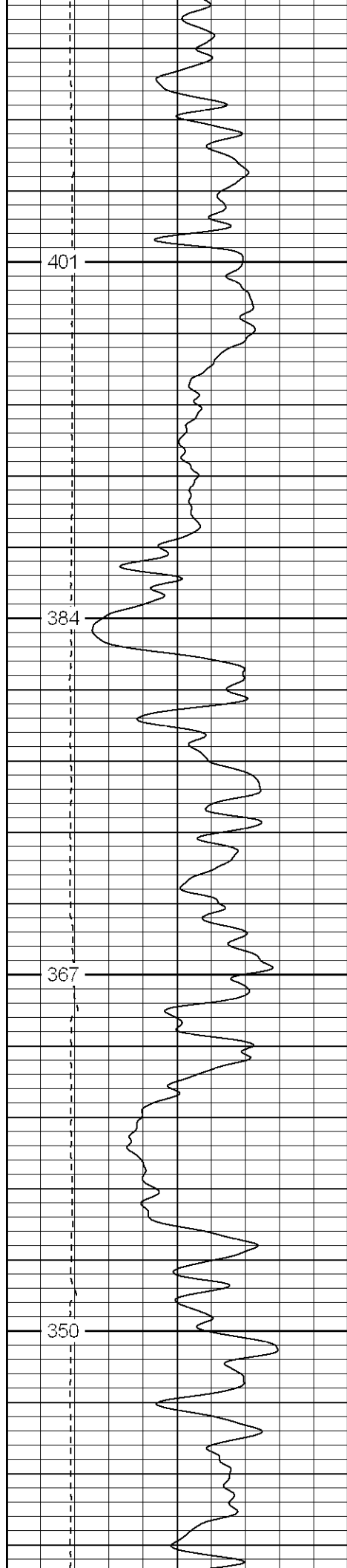
800

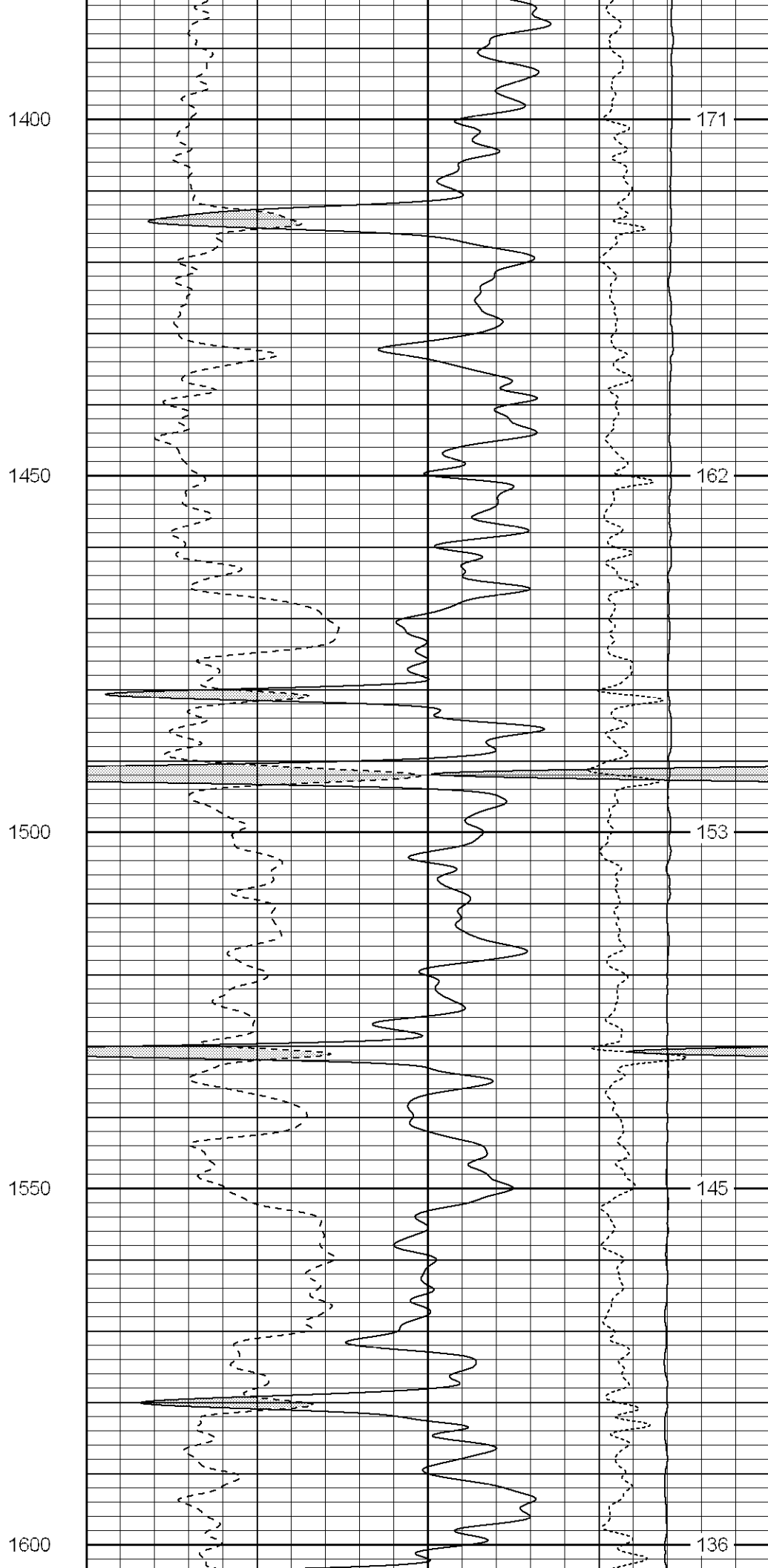
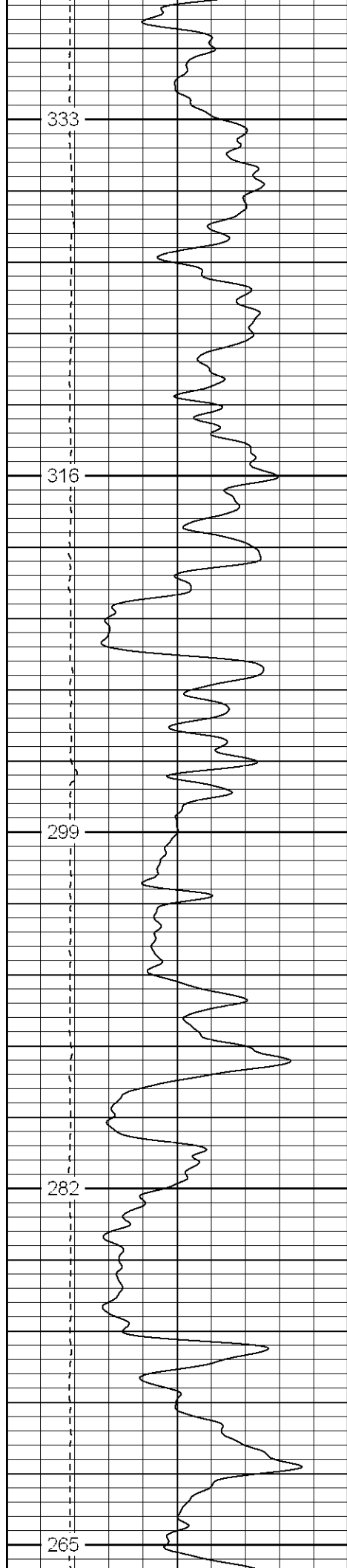
850

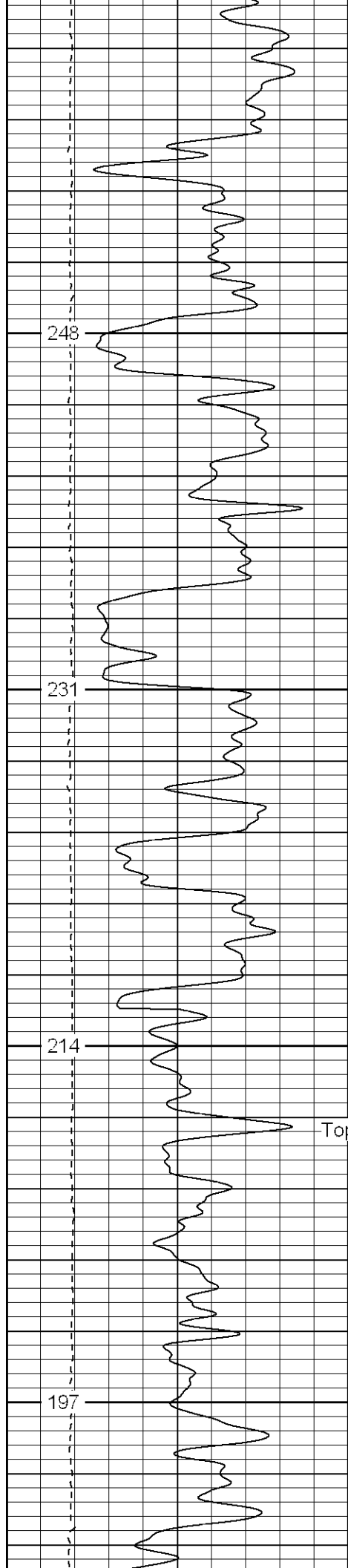
900











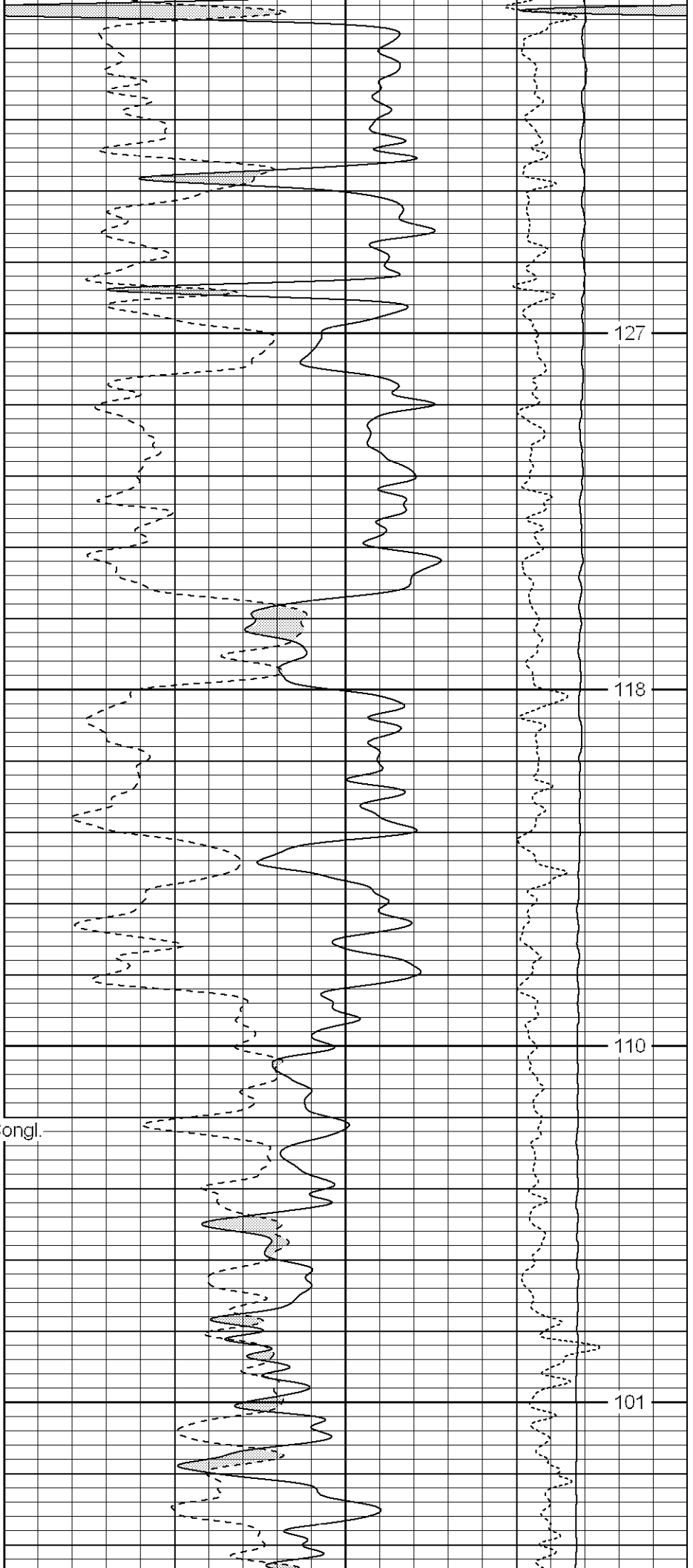
1650

1700

1750

1800

Top Of Raton Congl.



Top Of Vermejo

180

1850

92

163

1900

84

147

1950

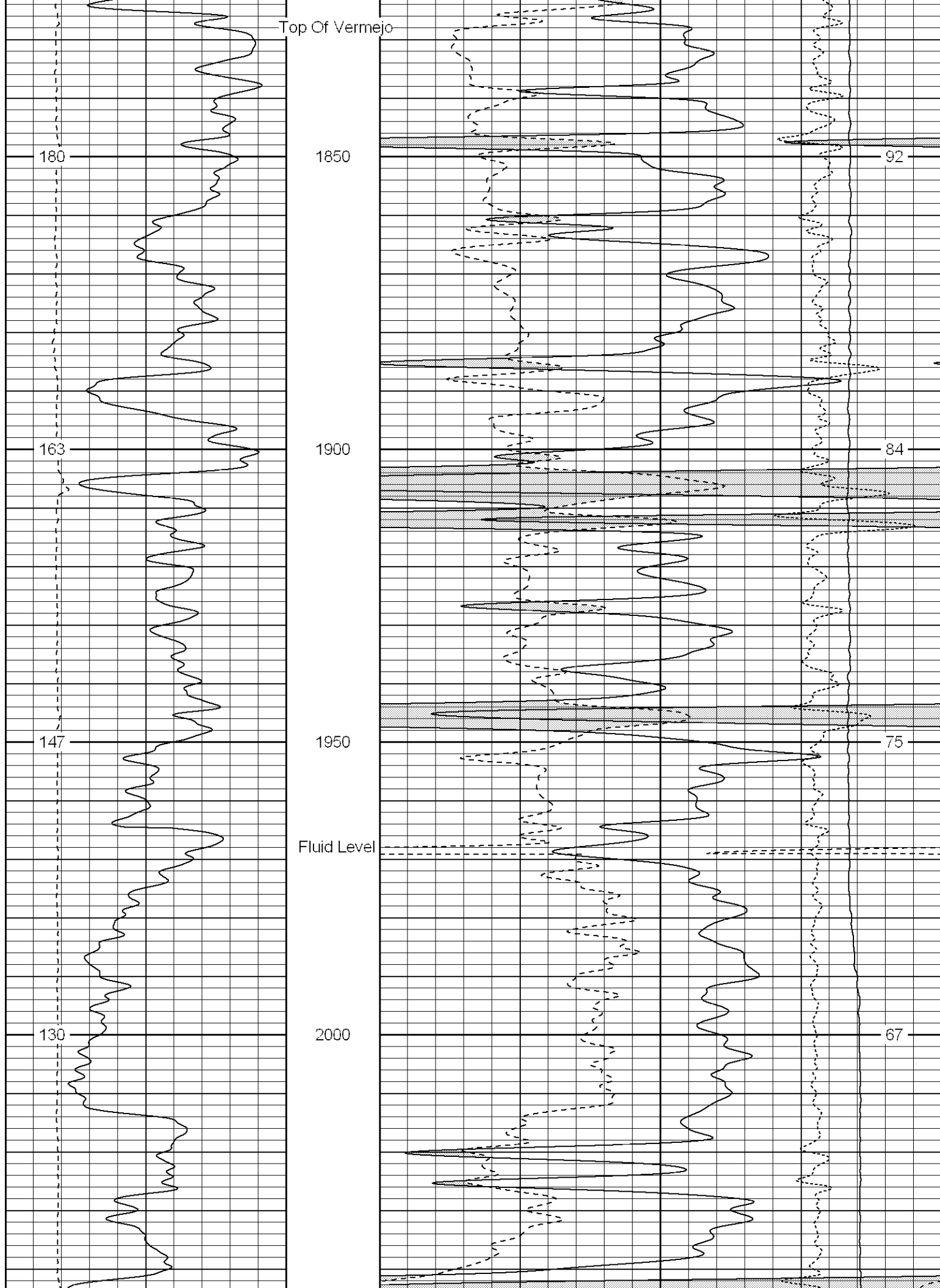
75

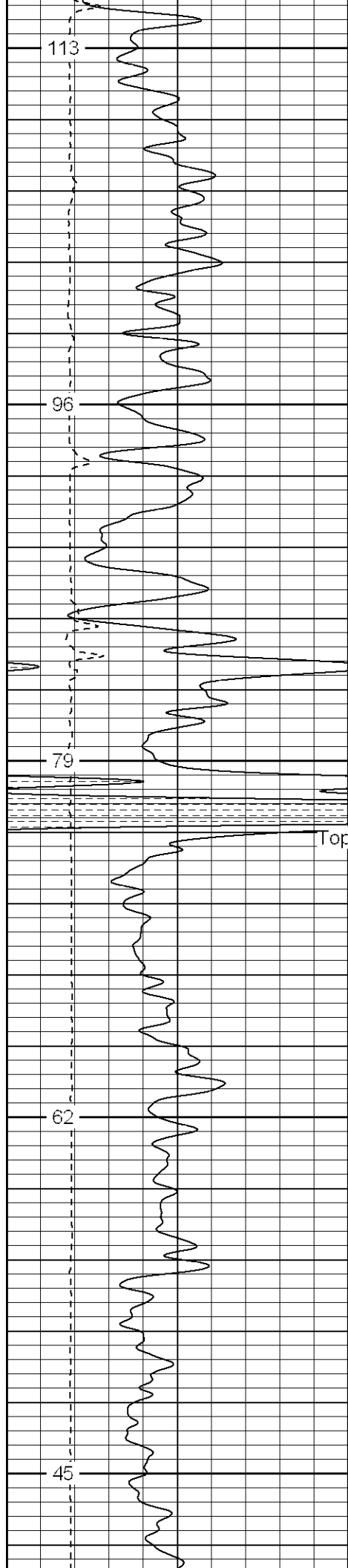
Fluid Level

130

2000

67





2050

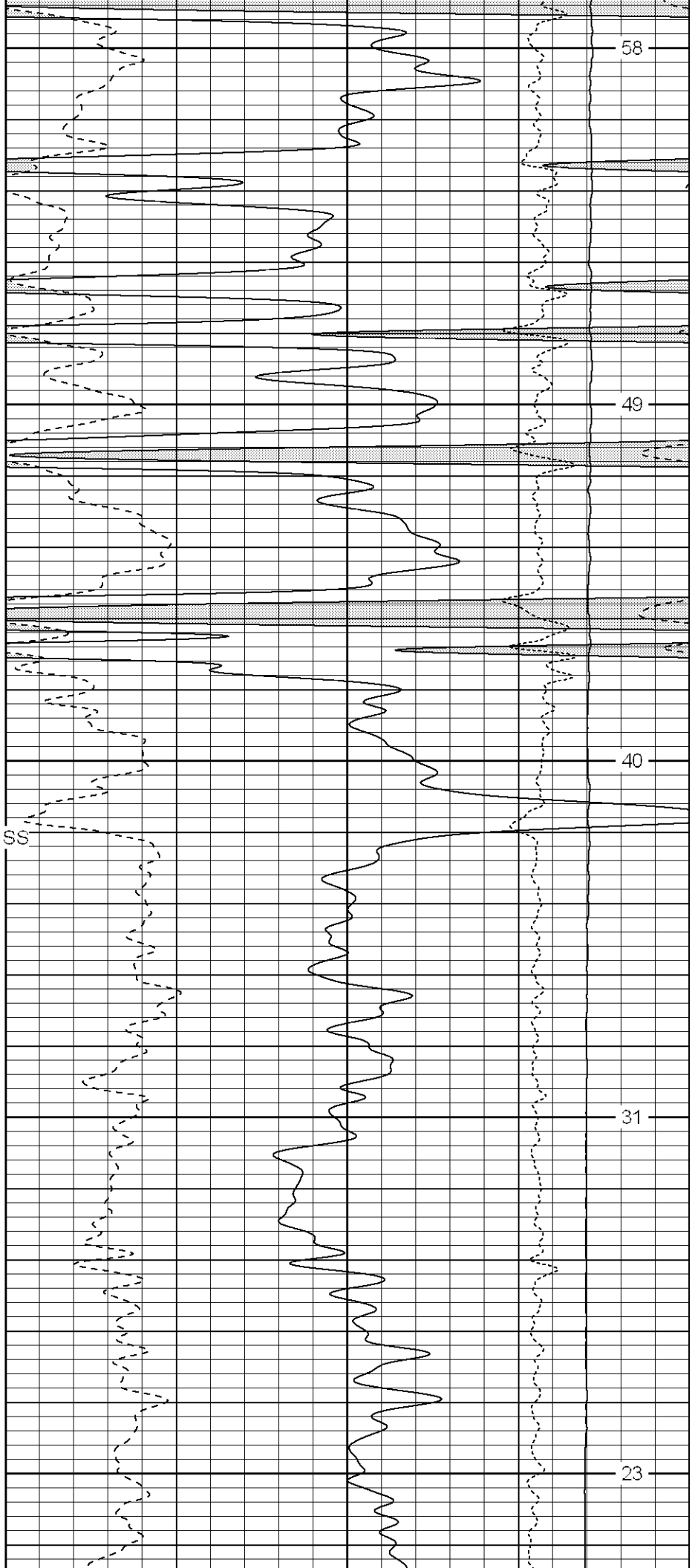
2100

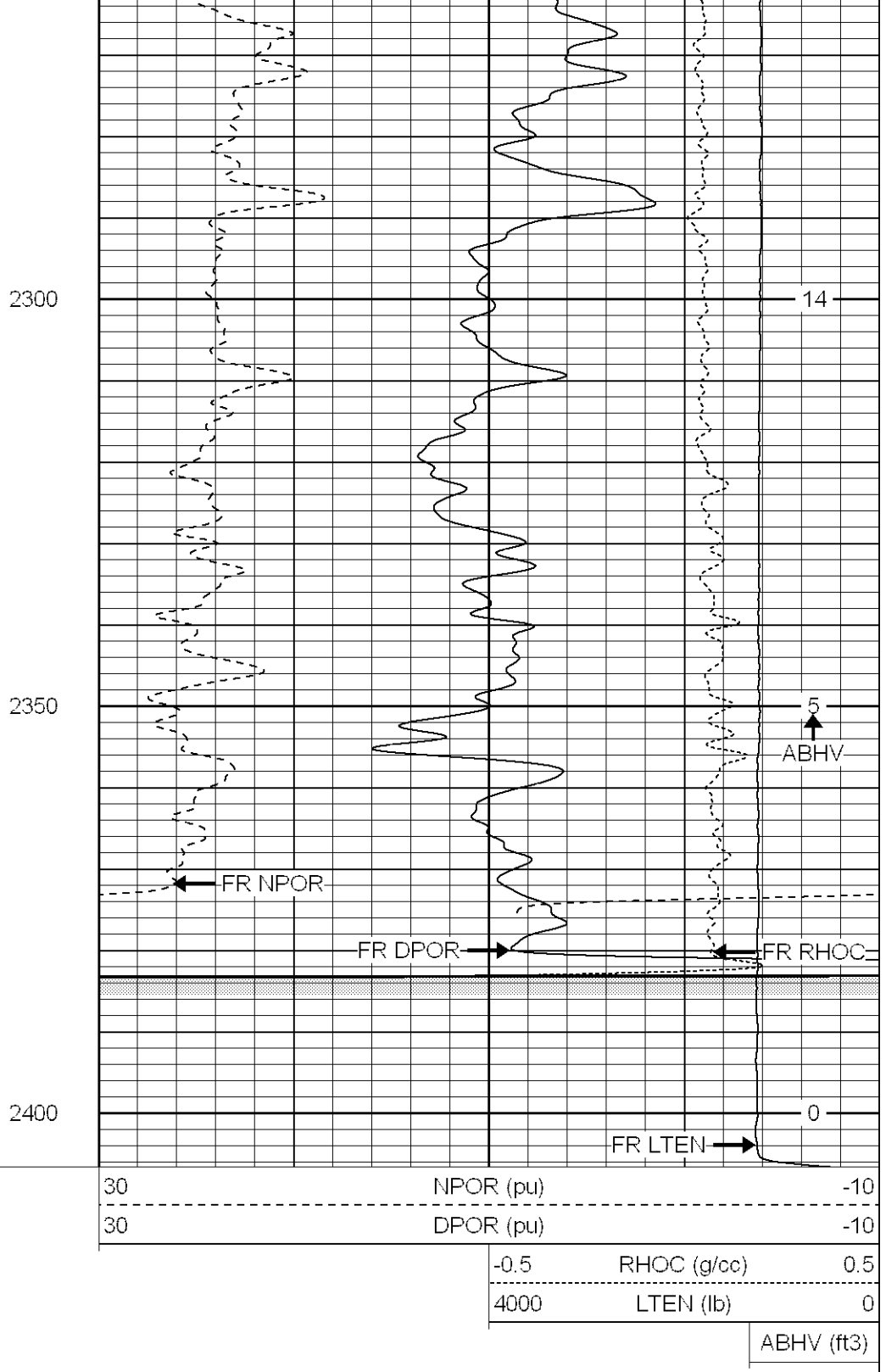
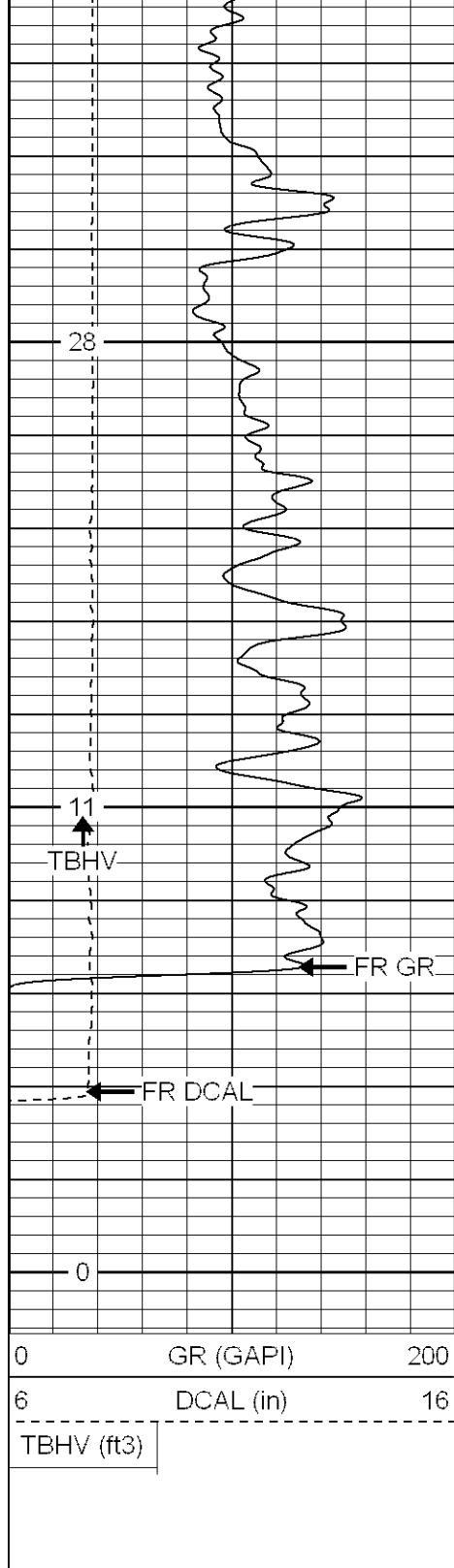
2150

Top Of Trinidad SS

2200

2250





SUPERIOR

Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

Repeat Pass

Database File: xtone3605.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Fri Feb 15 08:58:52 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
---	-----------	-----

30	NPOR (pu)	-10
----	-----------	-----

6 DCAL (in) 16

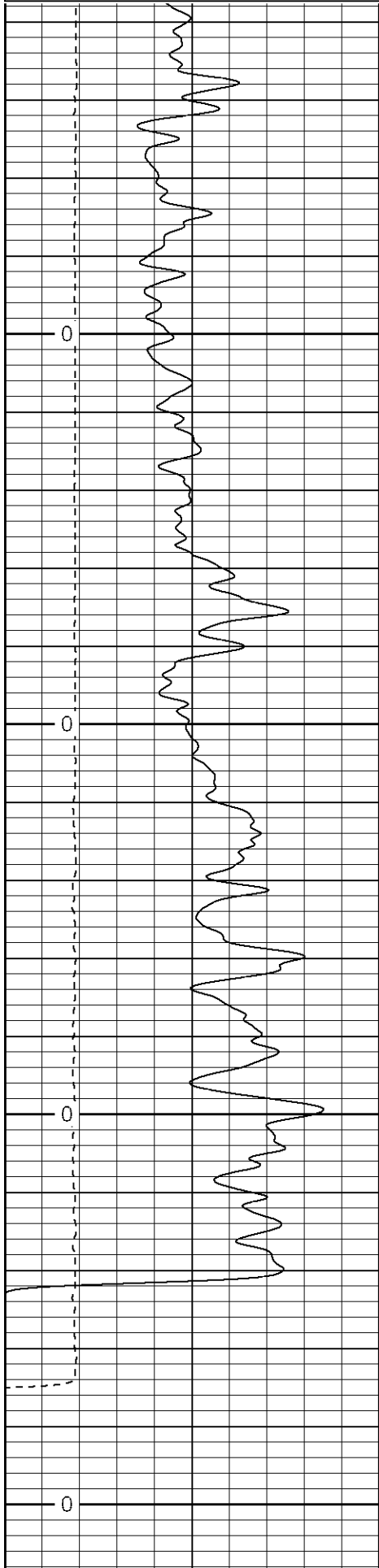
TBHV (ft3)

30 DPOR (pu)

-0.5 RHOC (g/cc) 0.5

4000 LTEN (lb) 0

ABHV (ft3)

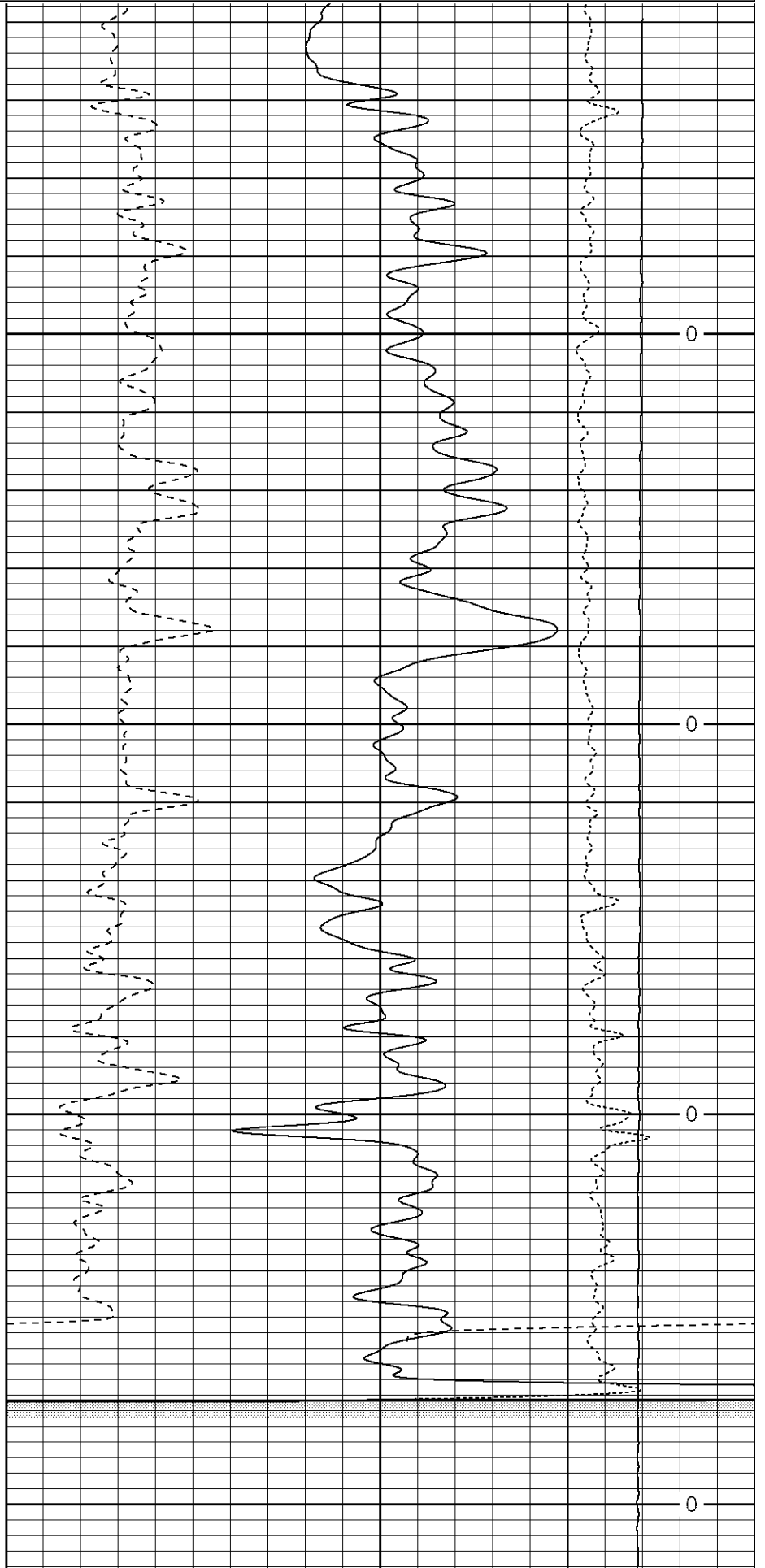


2250

2300

2350

2400



0

0

0

0

0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)				-0.5	RHOC (g/cc) 0.5
				4000	LTEN (lb) 0
					ABHV (ft3)



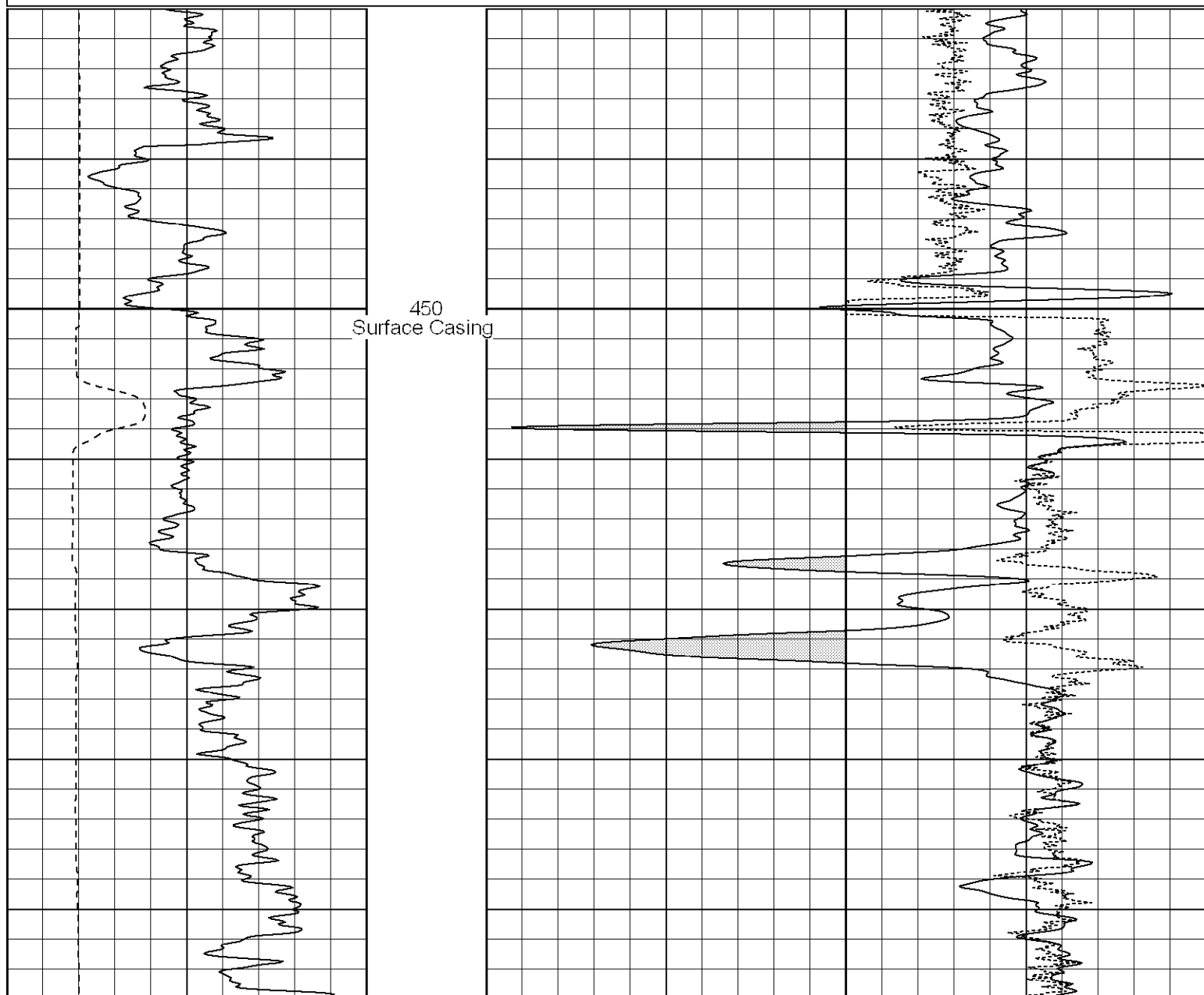
SUPERIOR

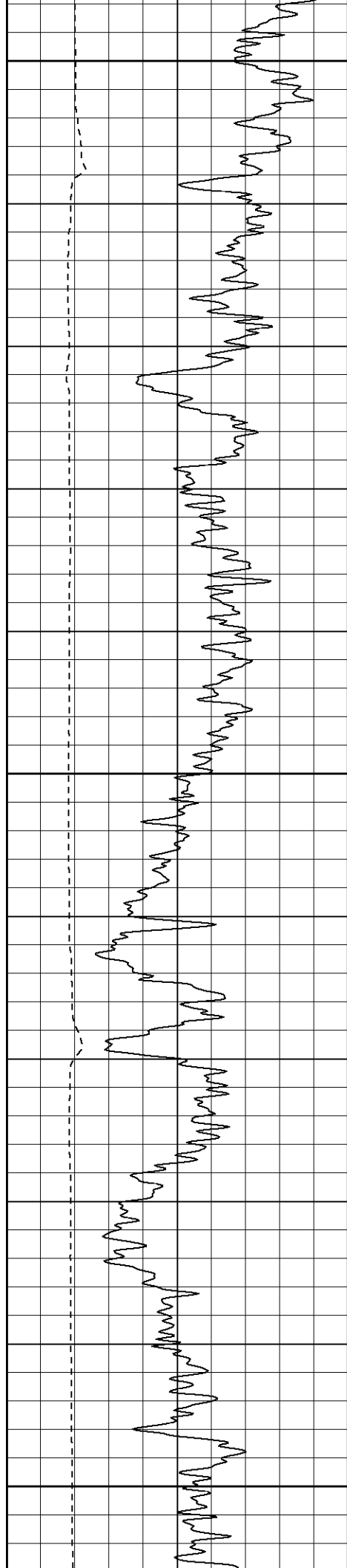
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

High Resolution Pass

Database File: xtone3605.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Fri Feb 15 14:53:40 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16		-0.5	RHOC (g/cc) 0.5

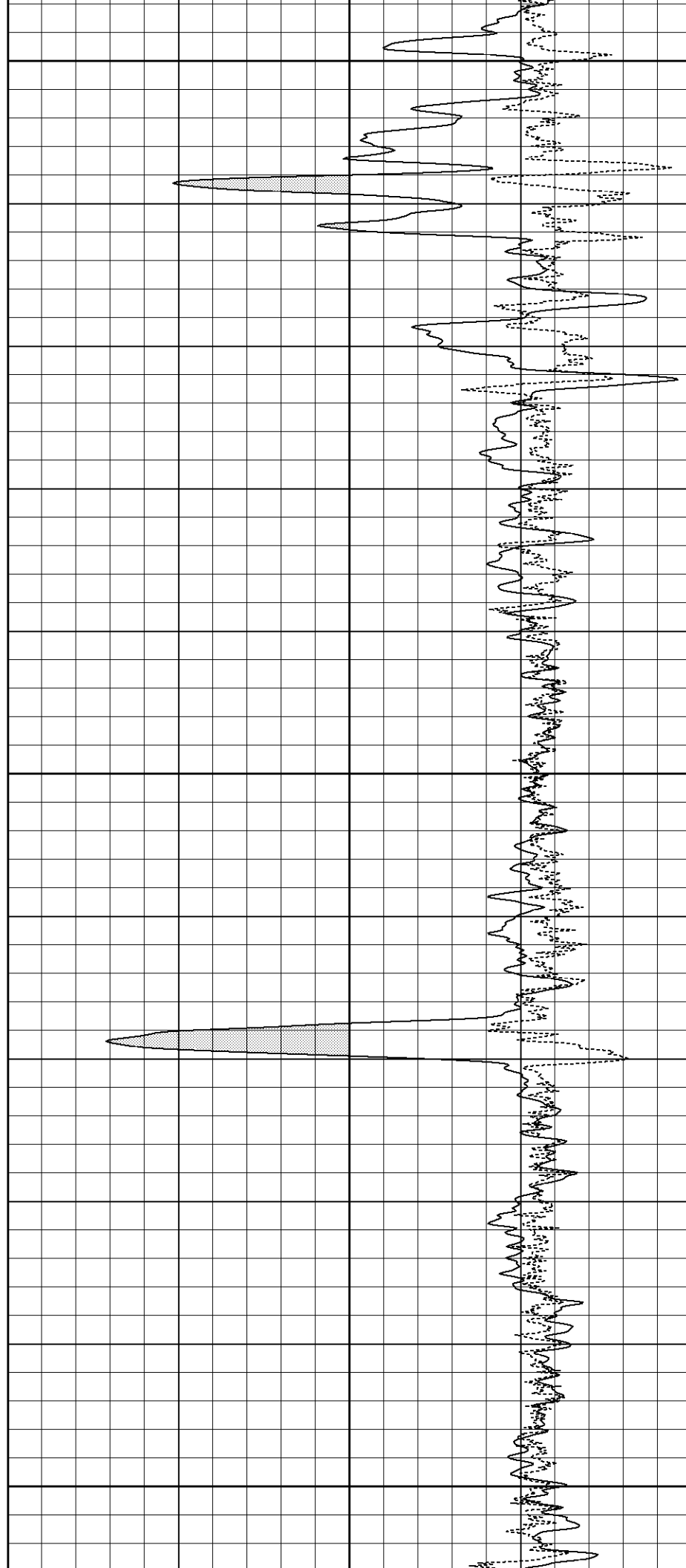


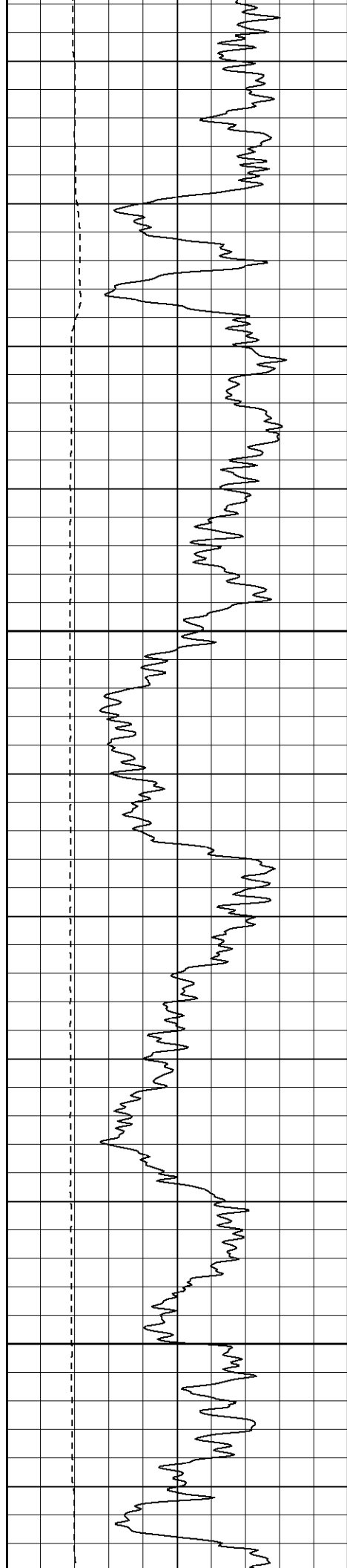


500

550

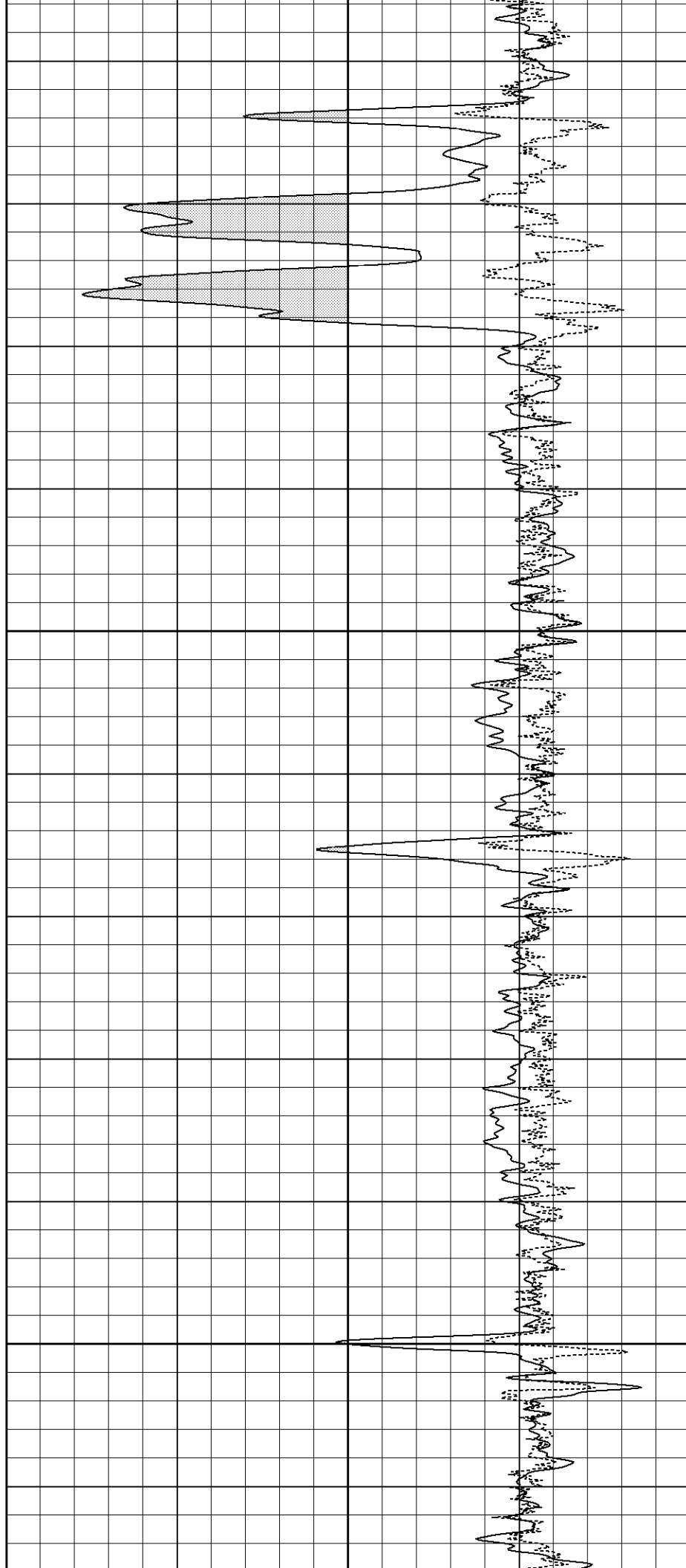
600

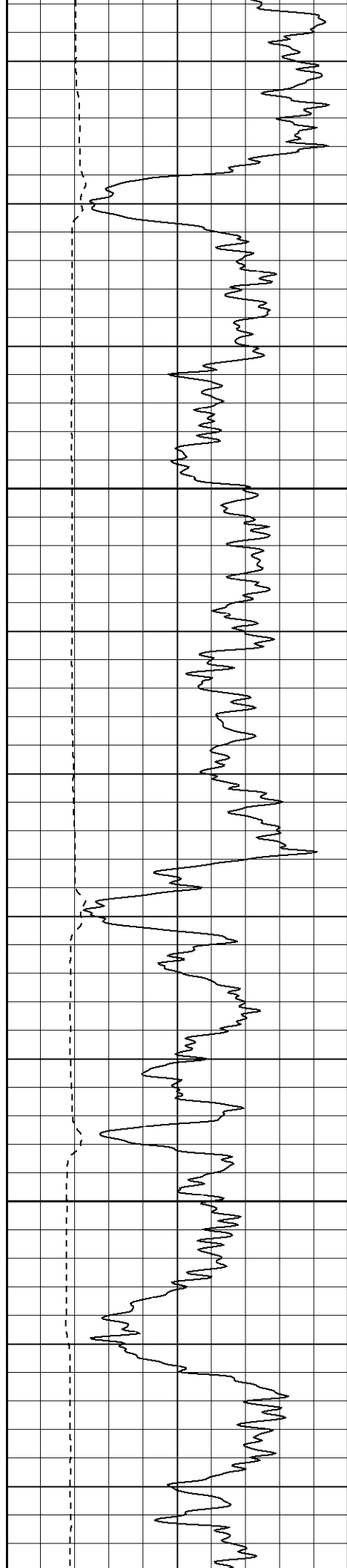




650

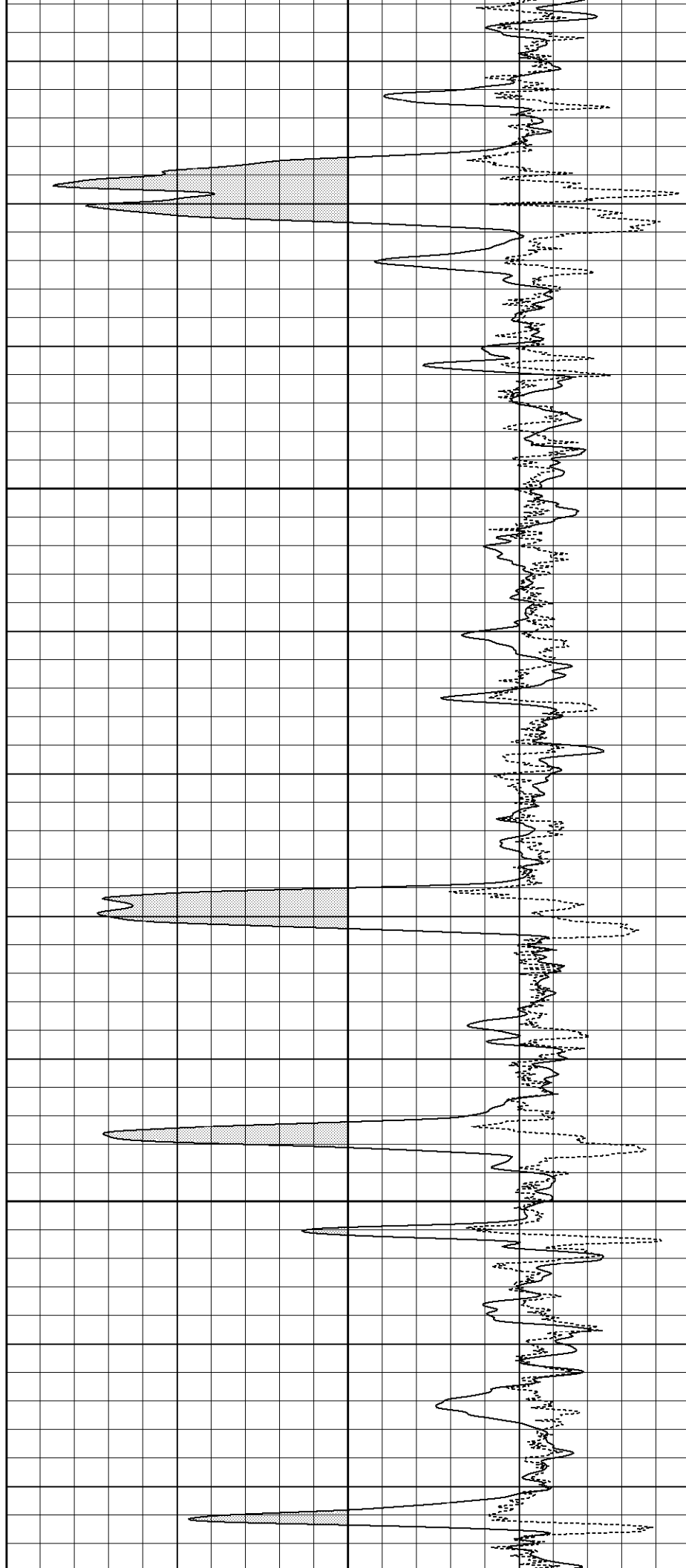
700

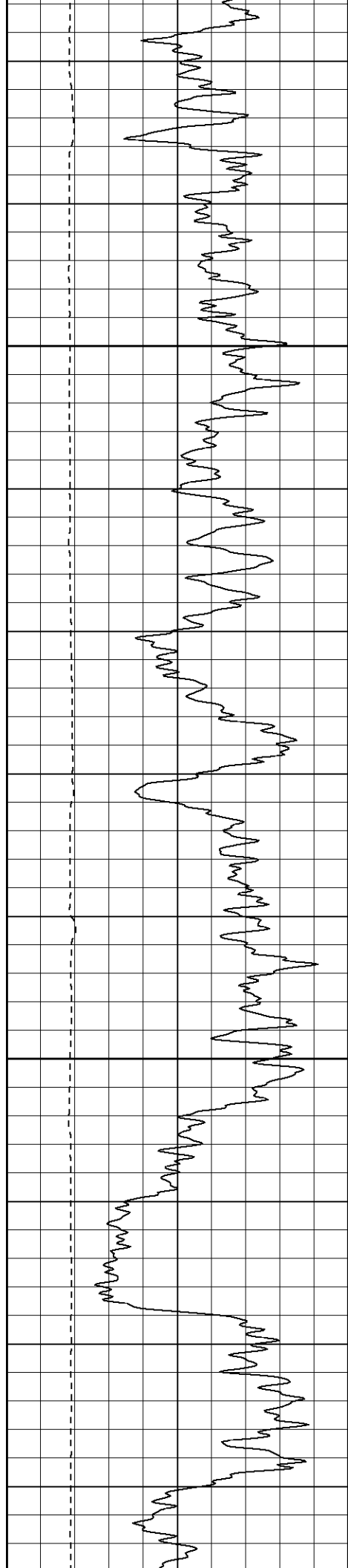




750

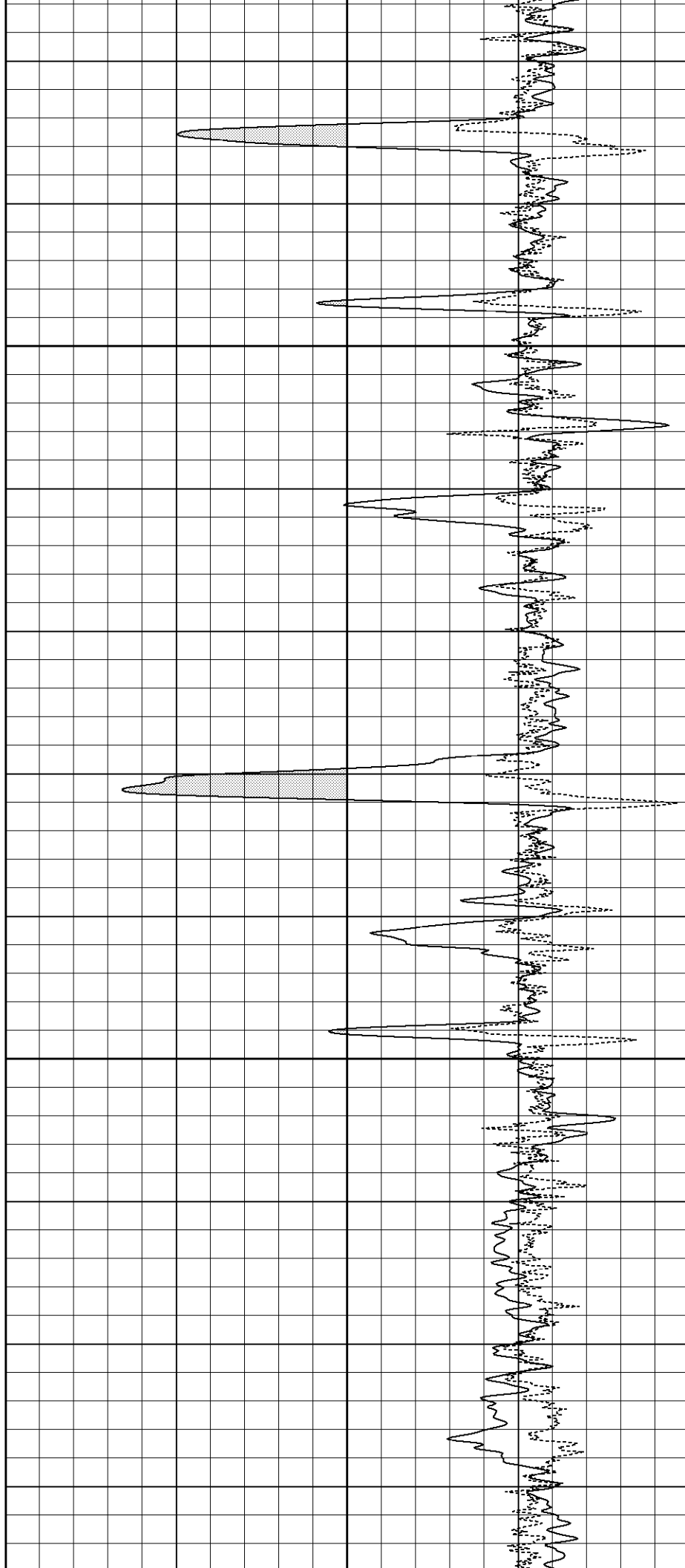
800

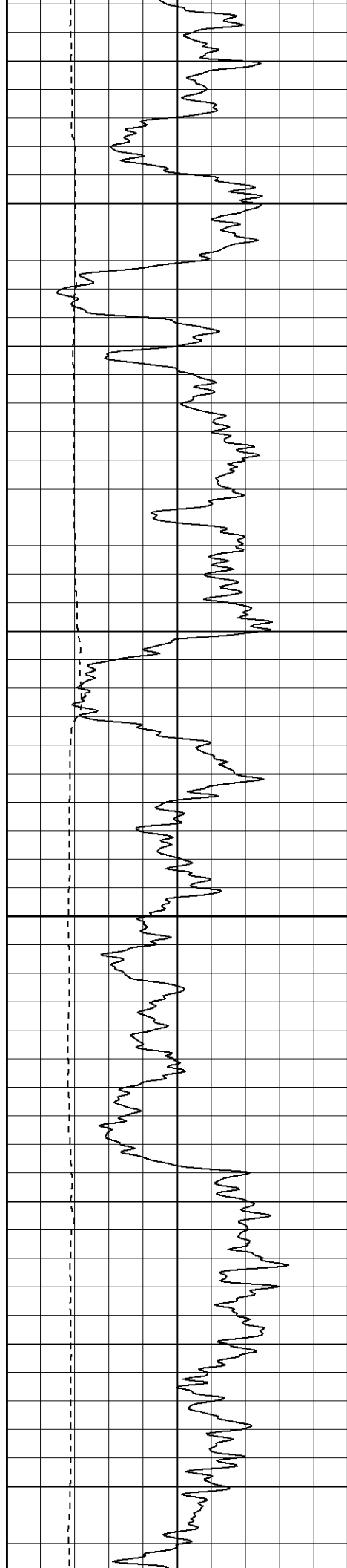




850

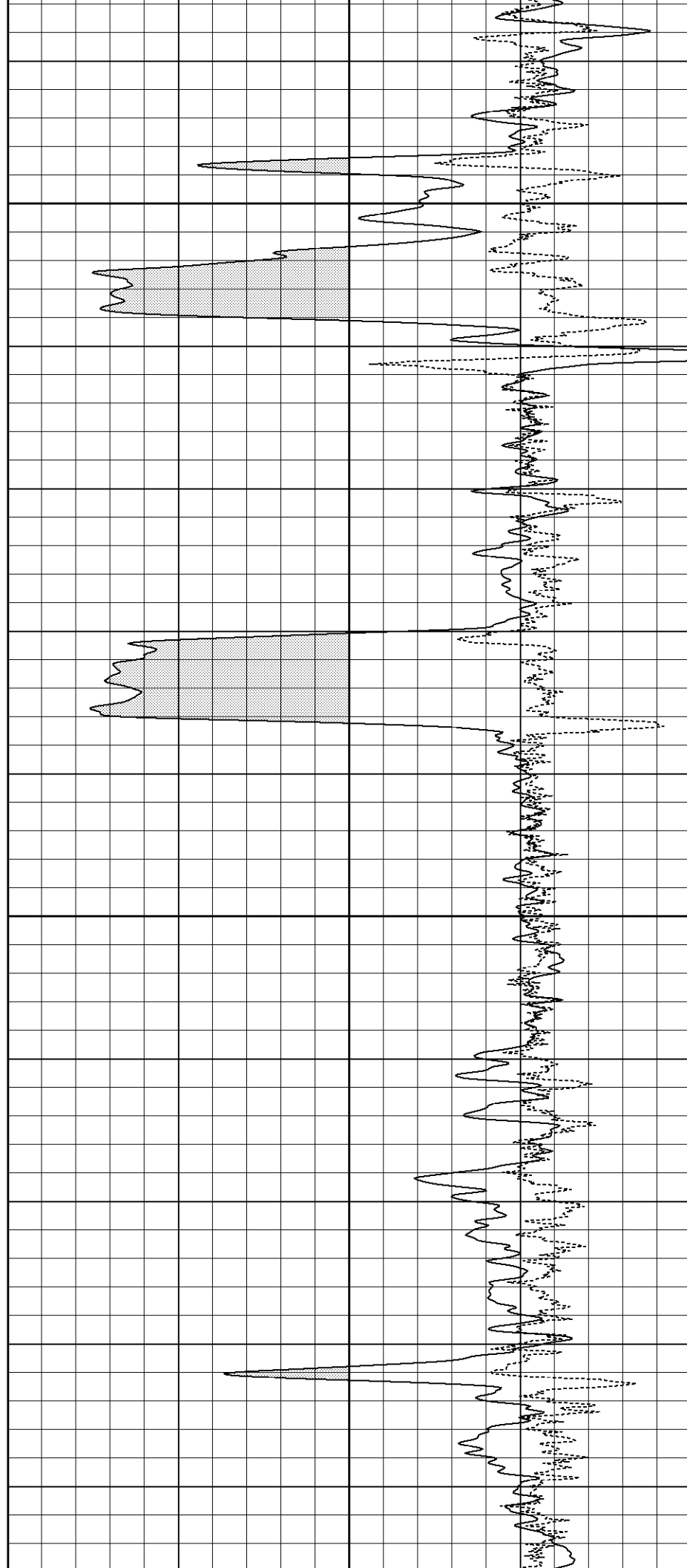
900

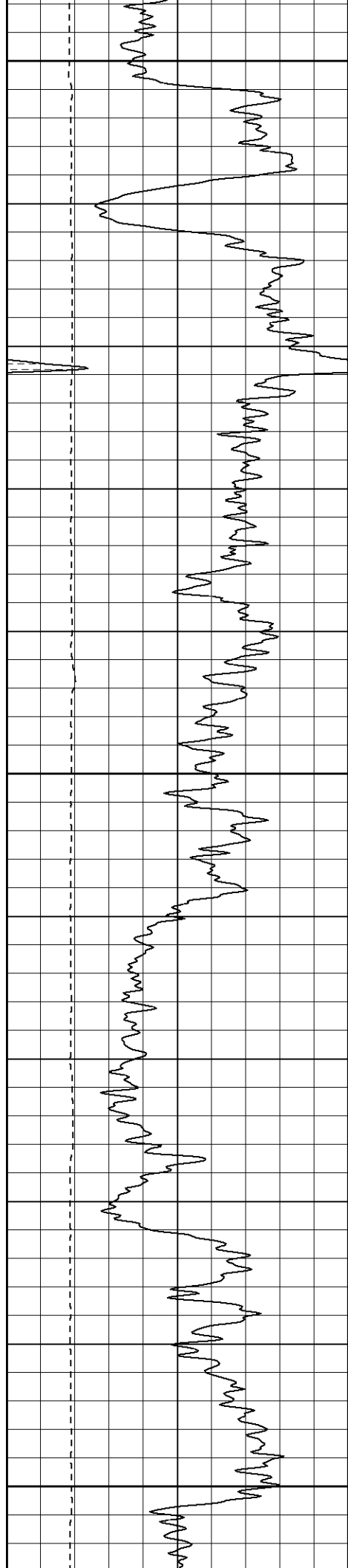




950

1000

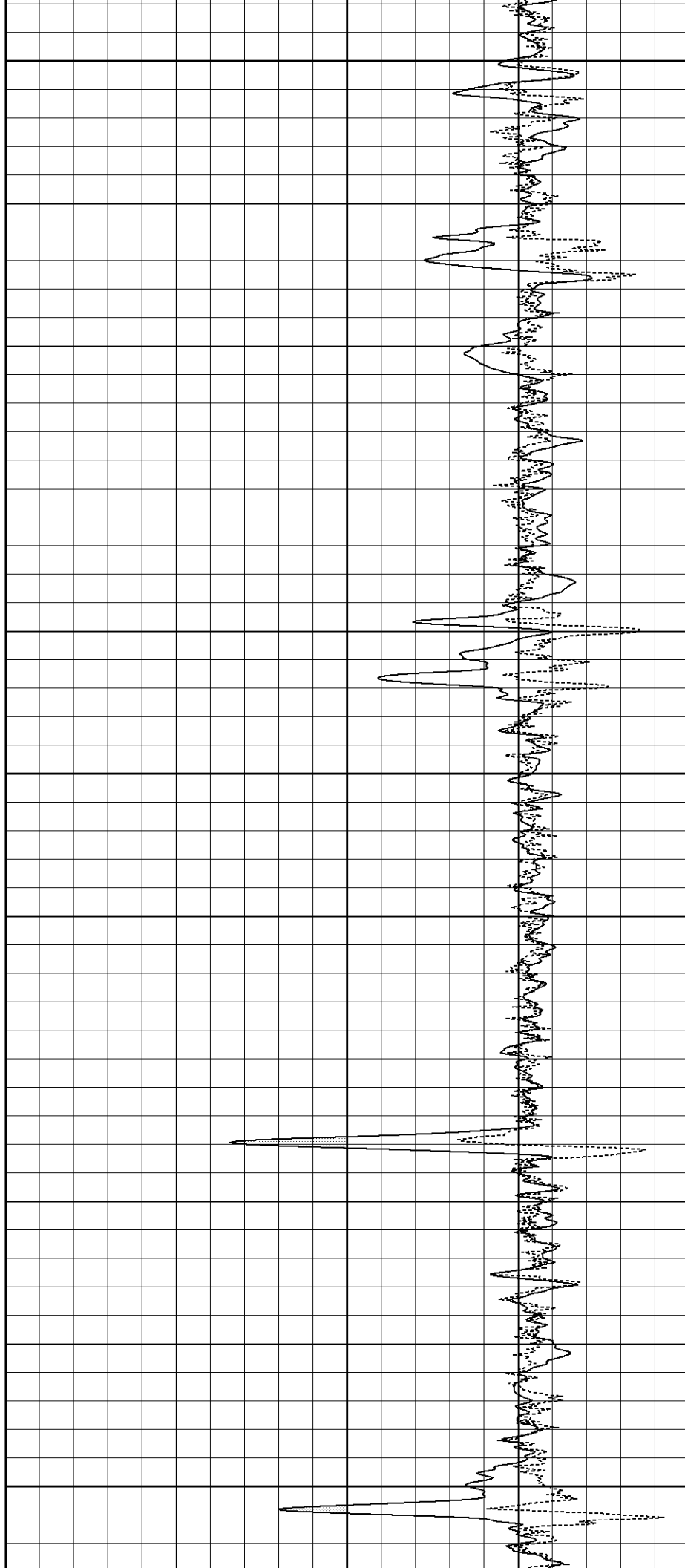


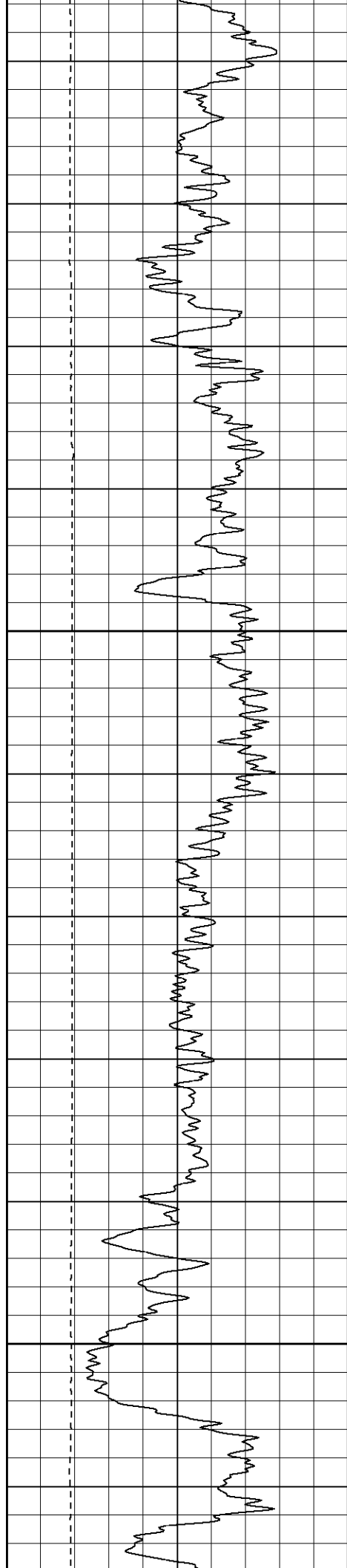


1050

1100

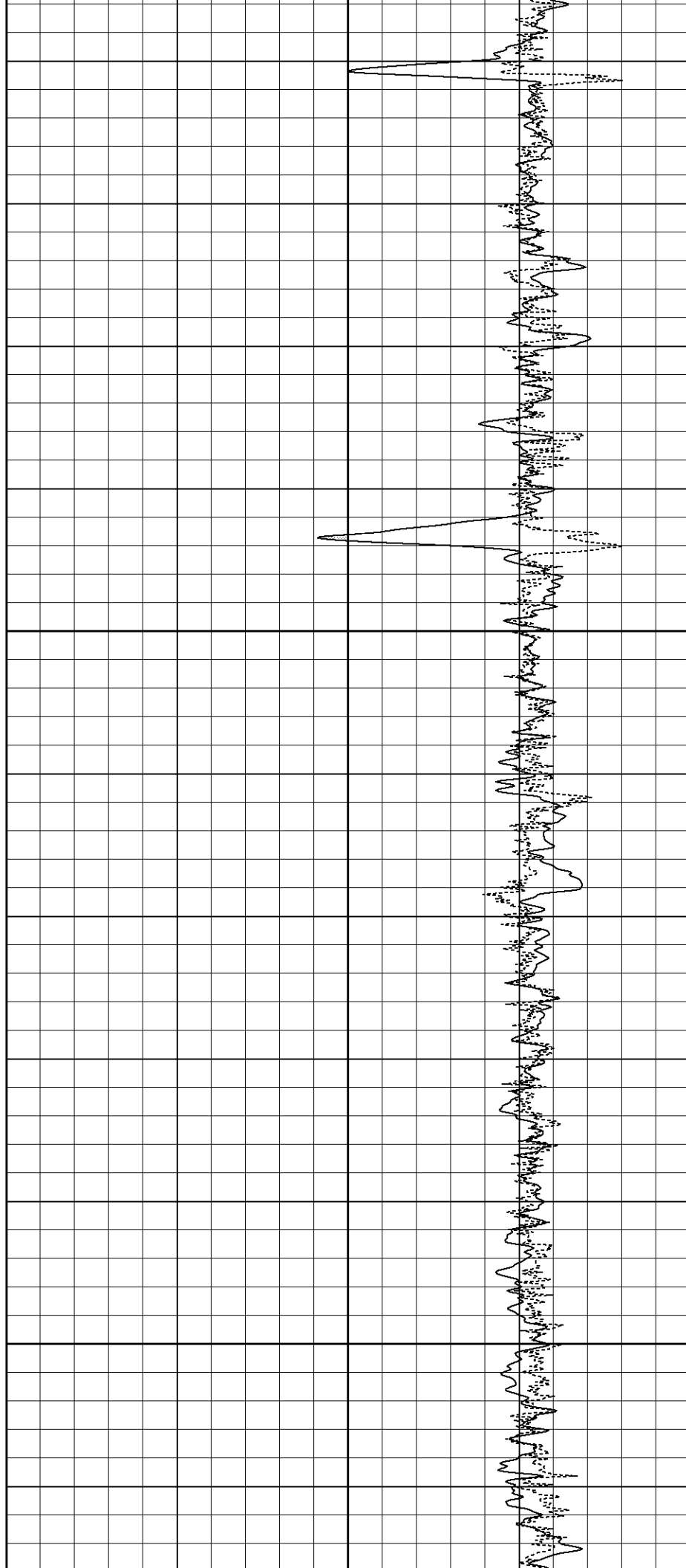
1150

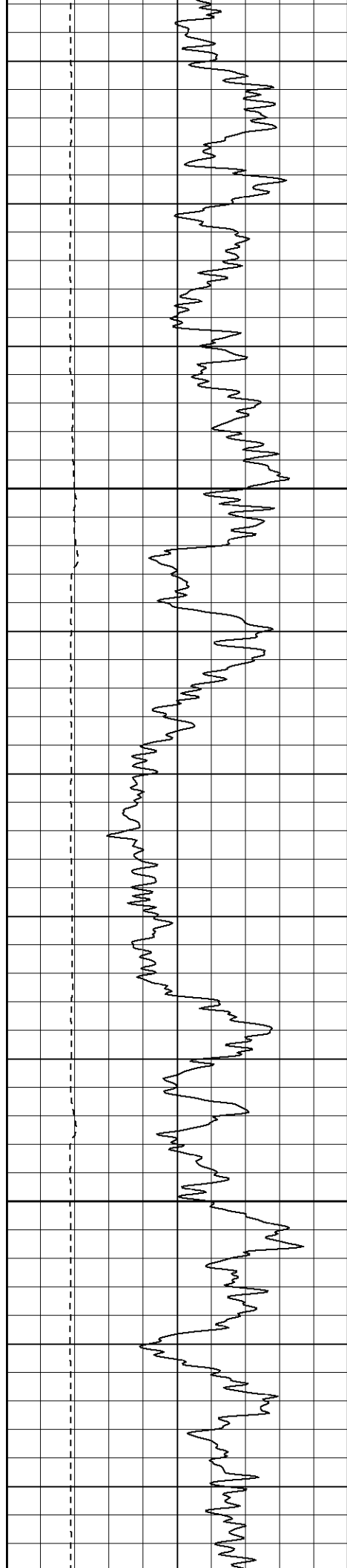




1200

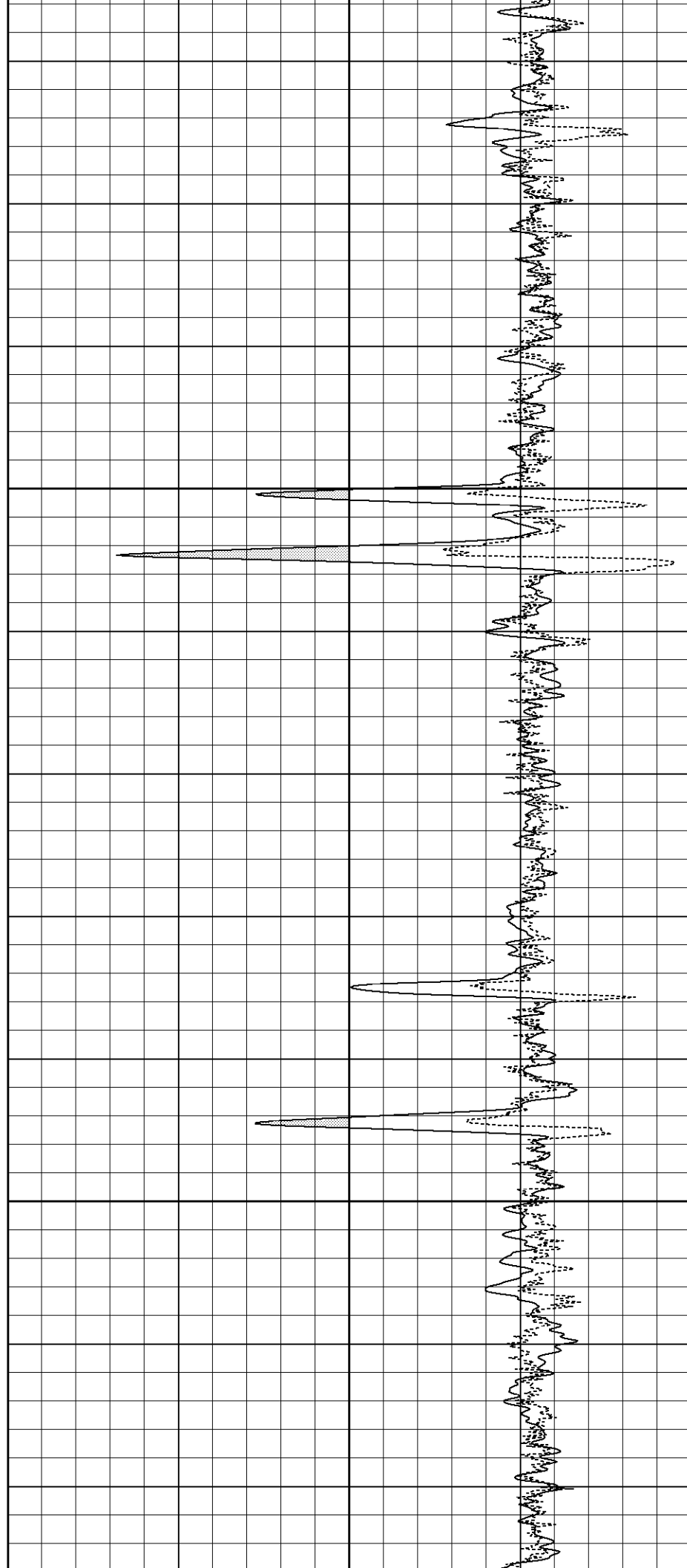
1250

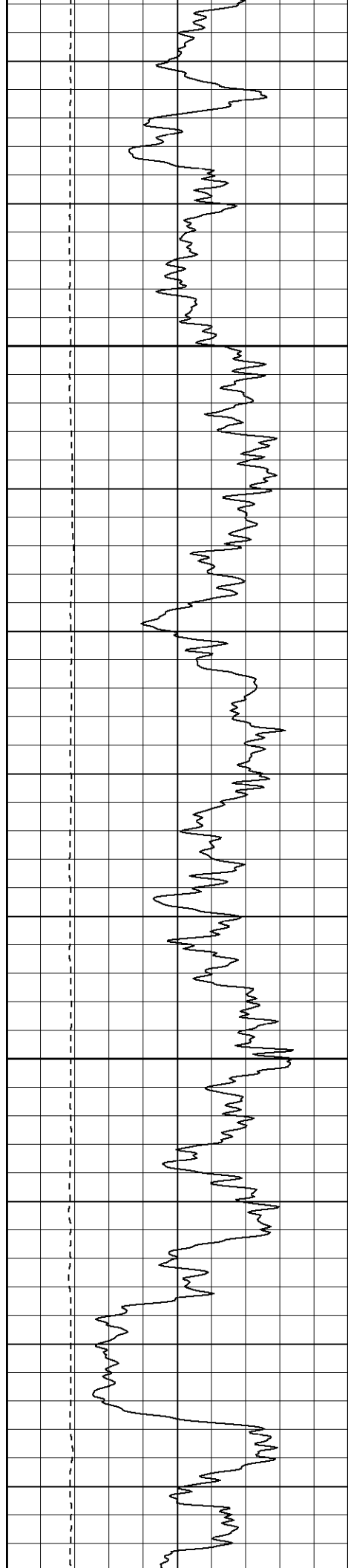




1300

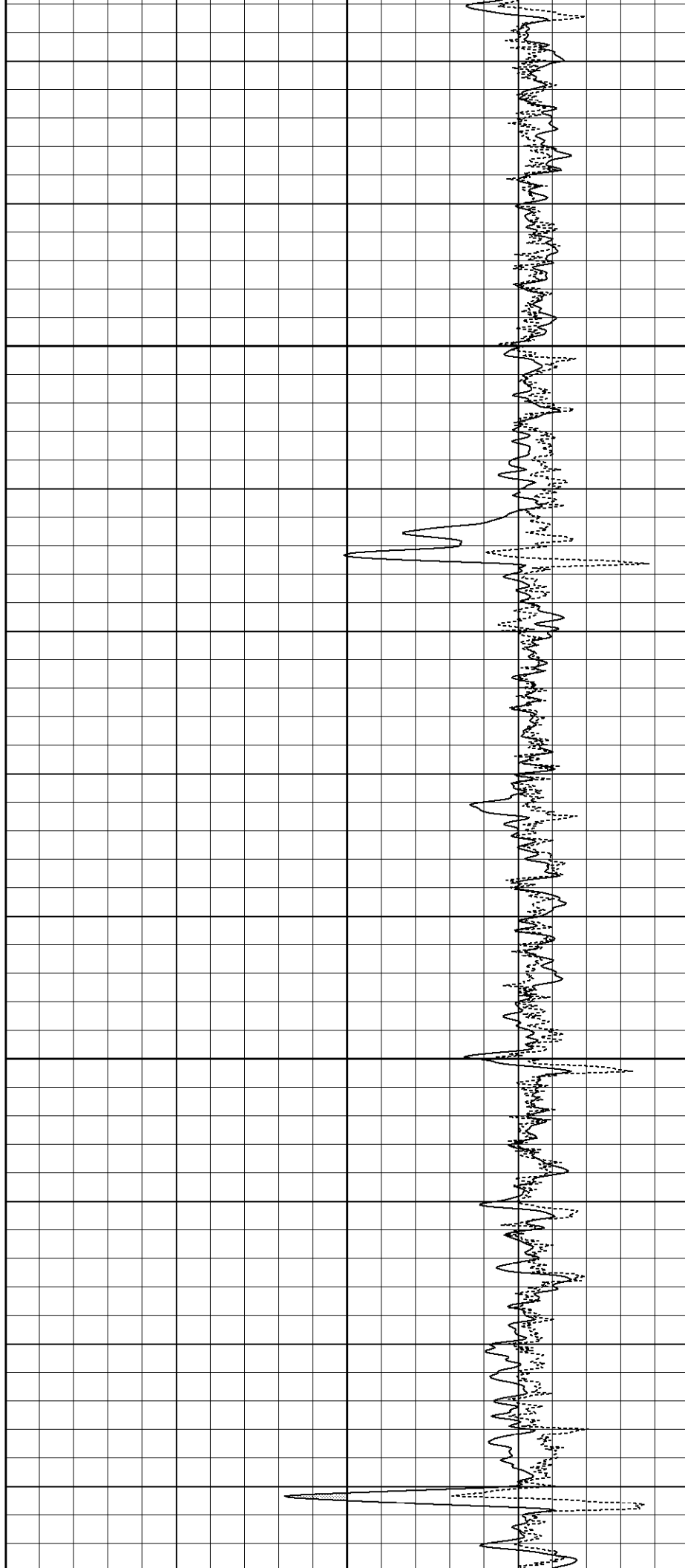
1350

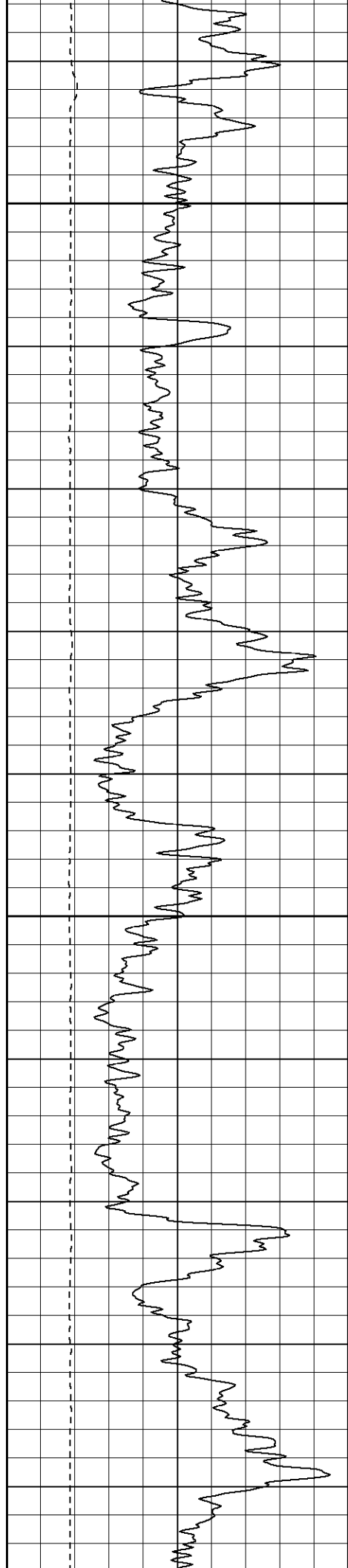




1400

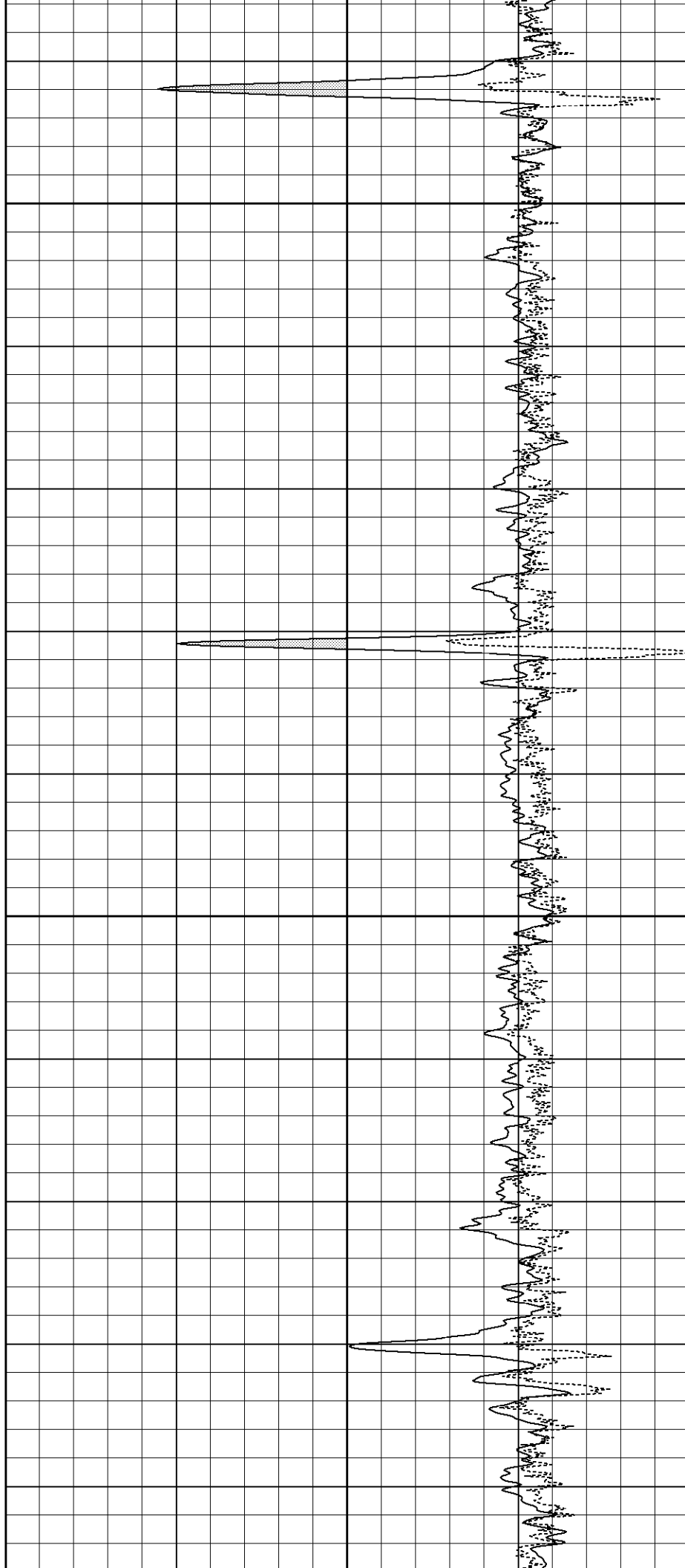
1450

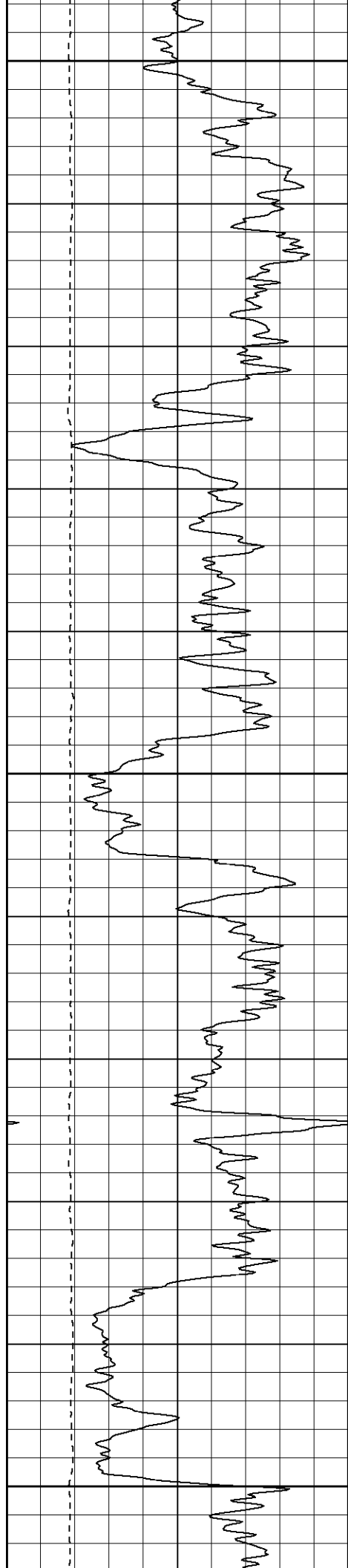




1500

1550

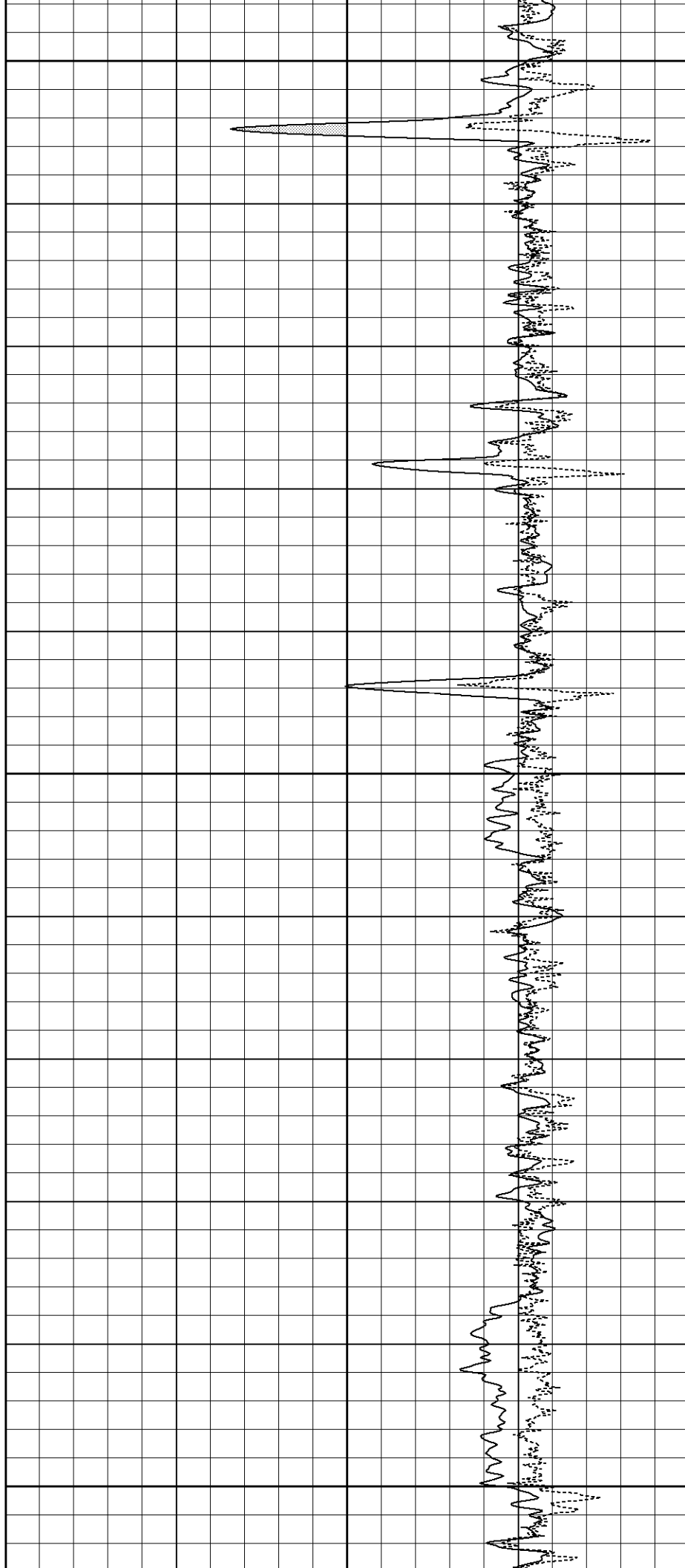


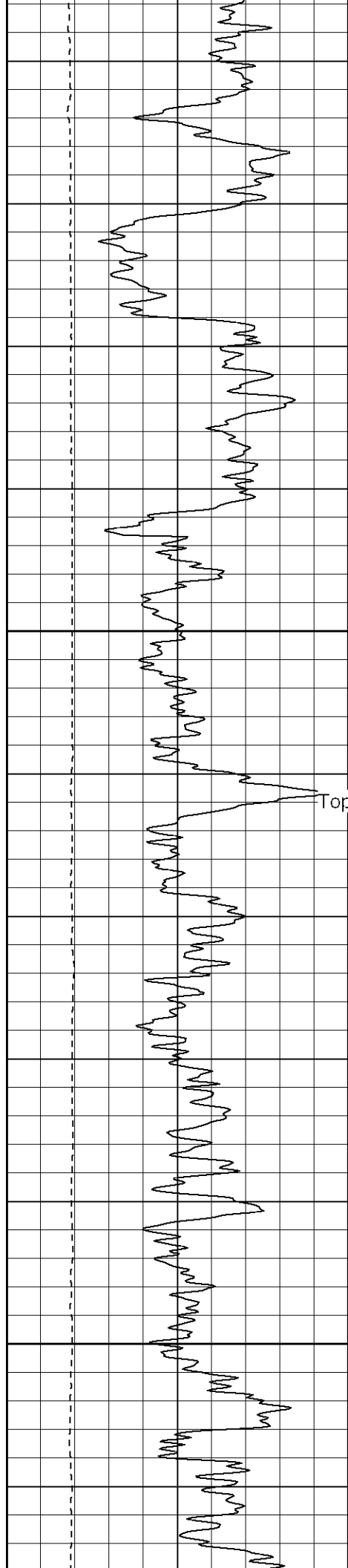


1600

1650

1700

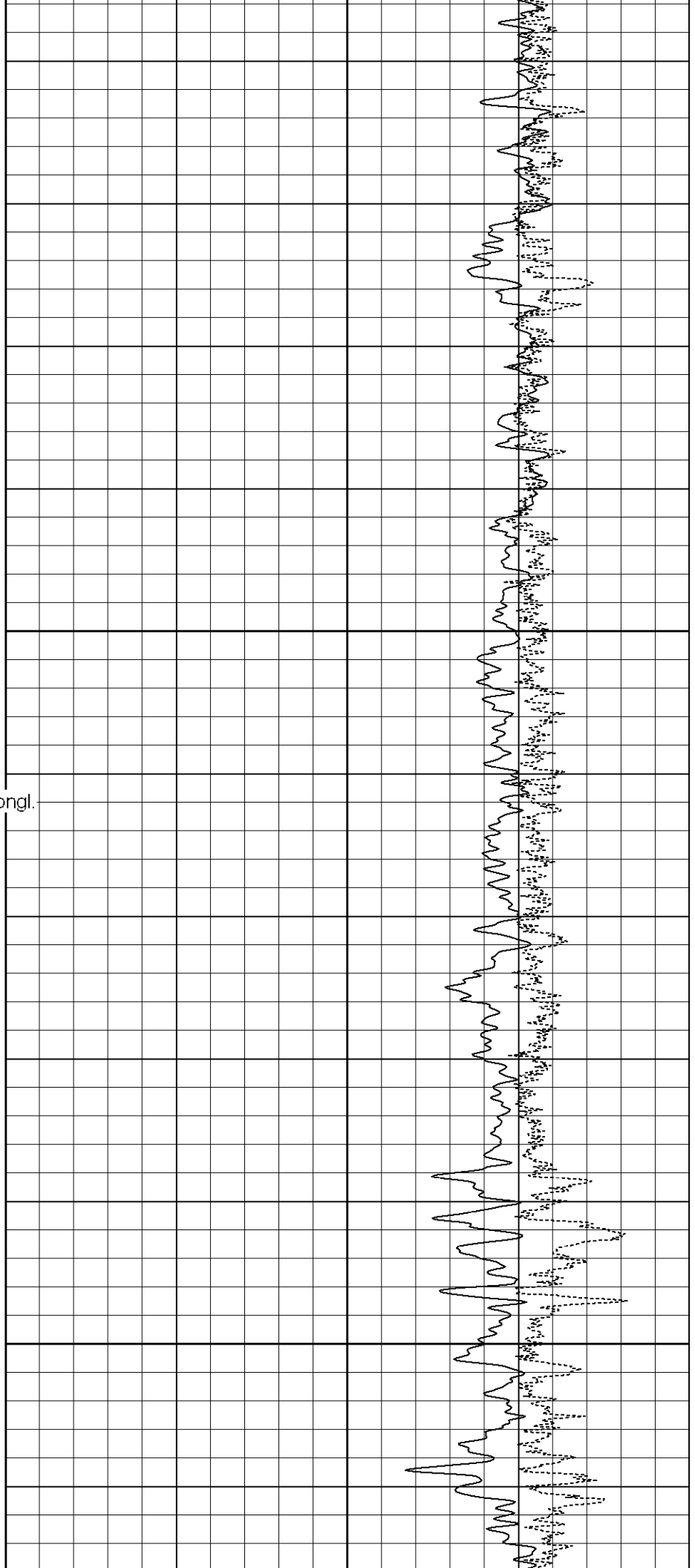


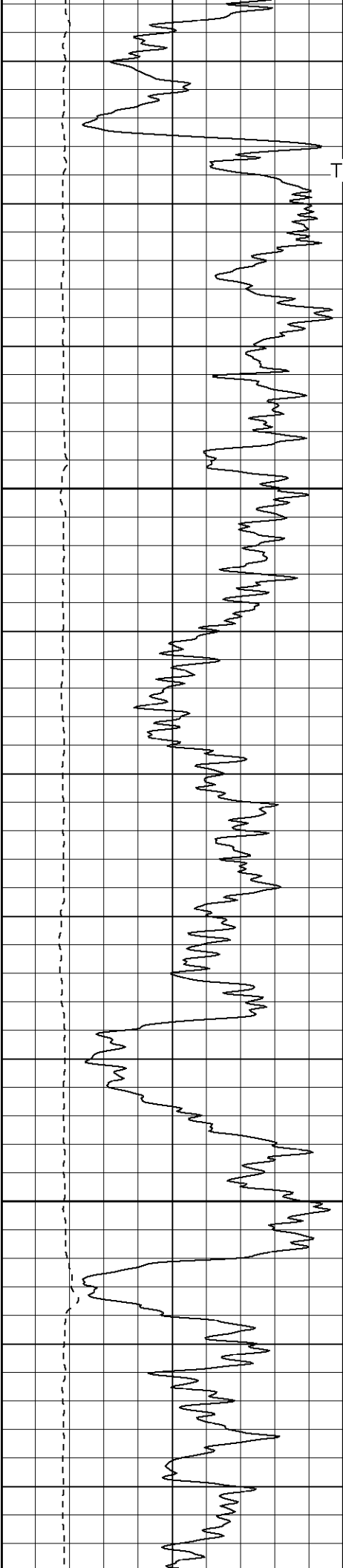


1750

Top of Raton Congl.

1800

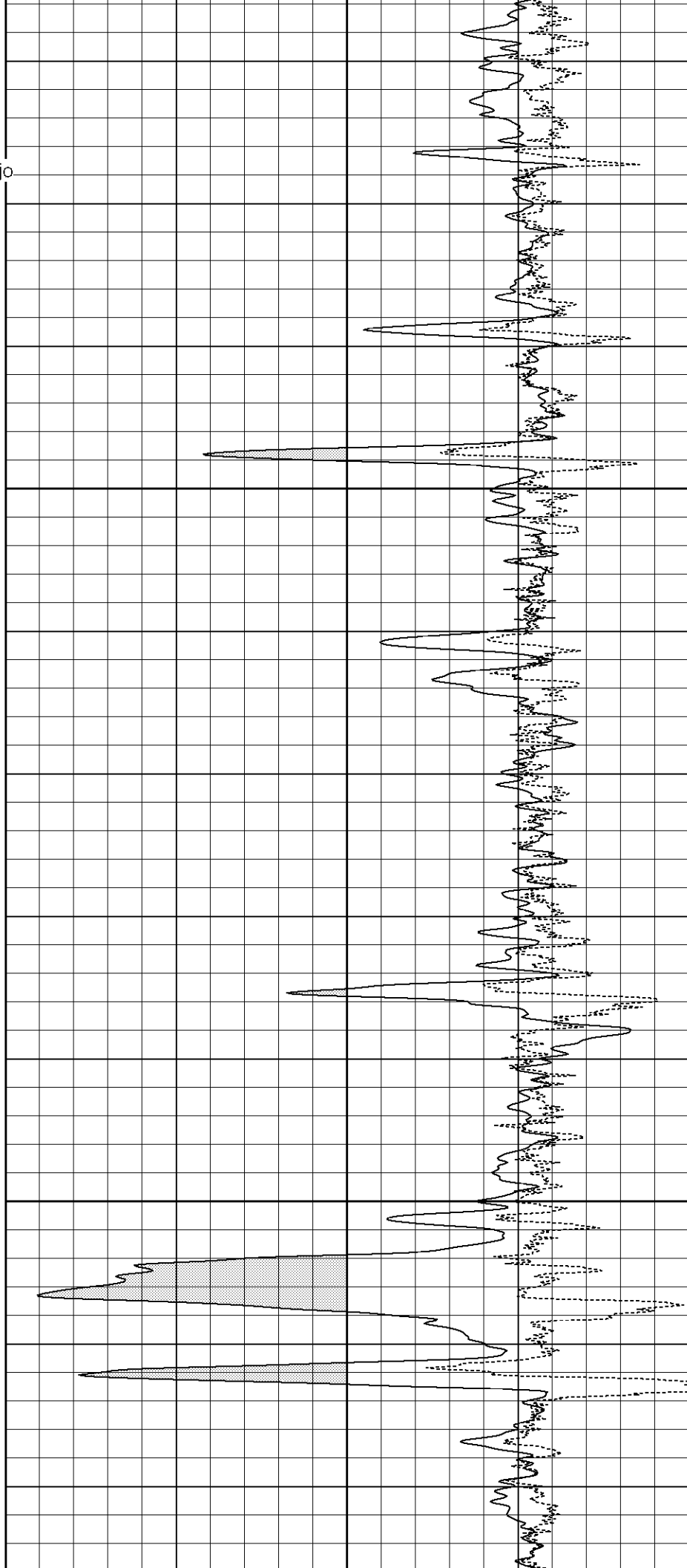


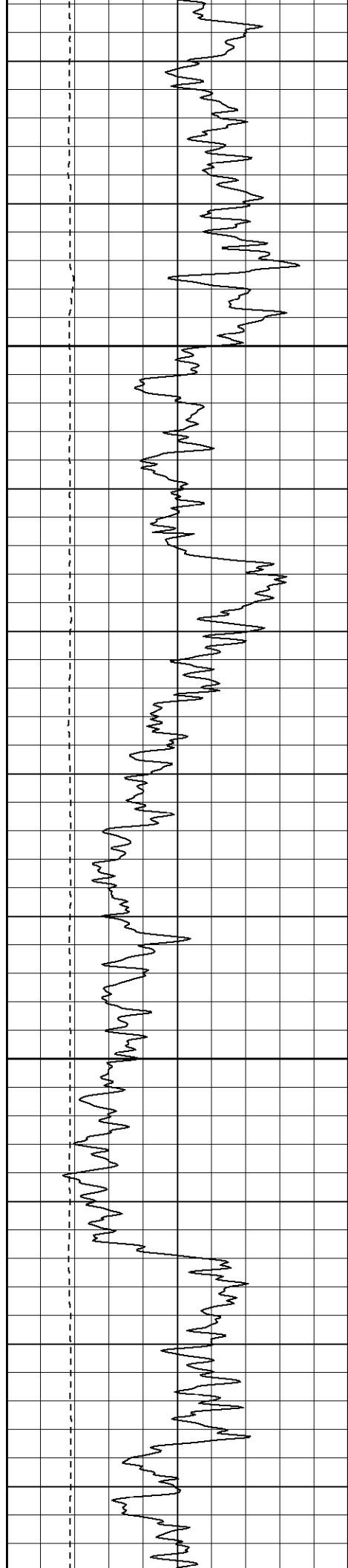


Top of Vermejo

1850

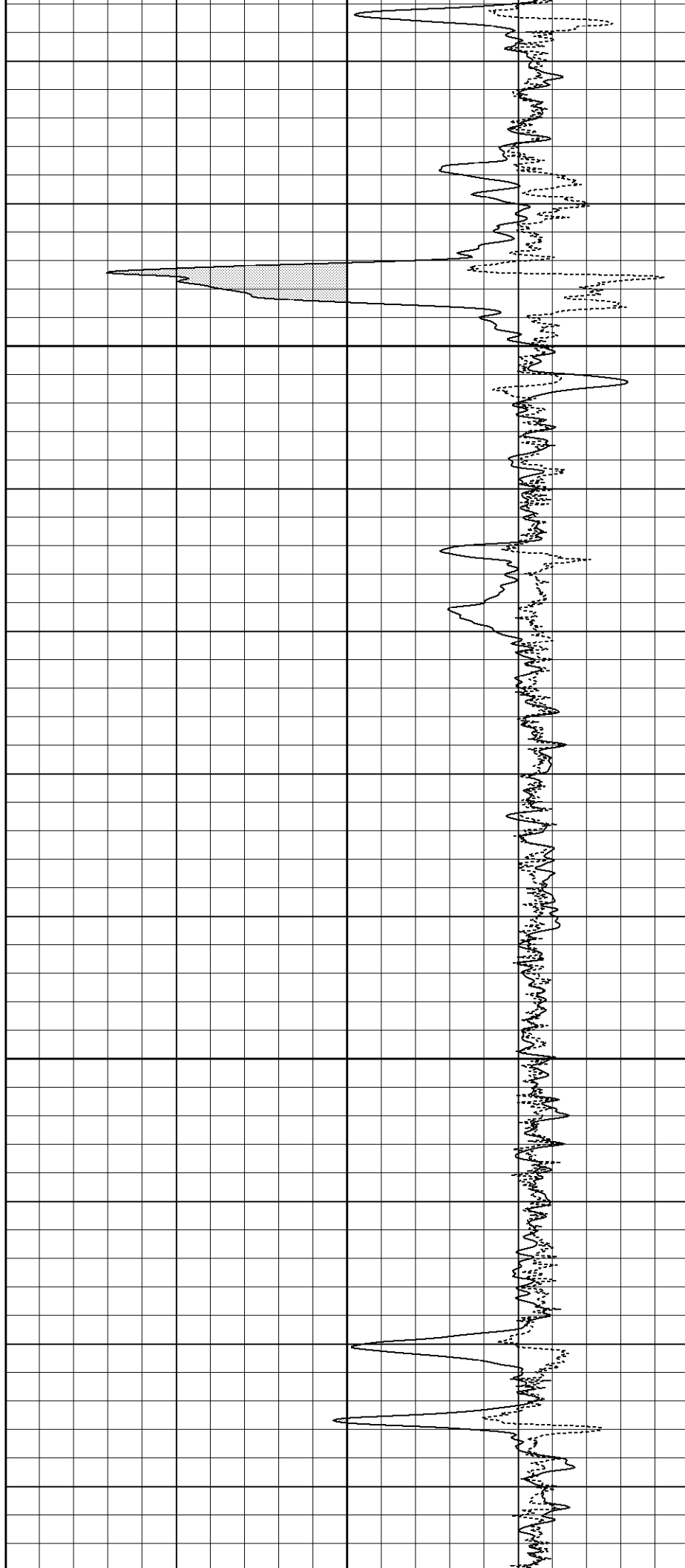
1900

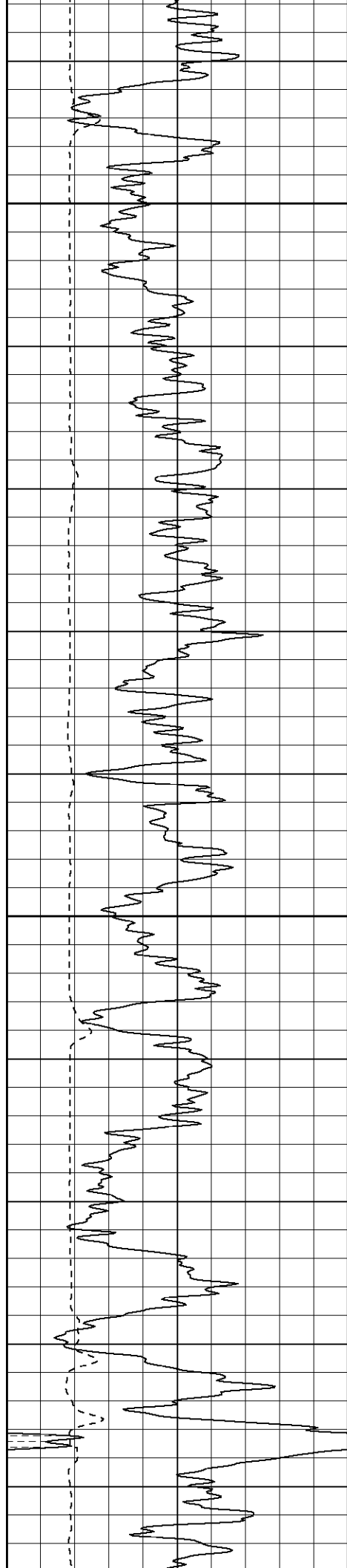




1950

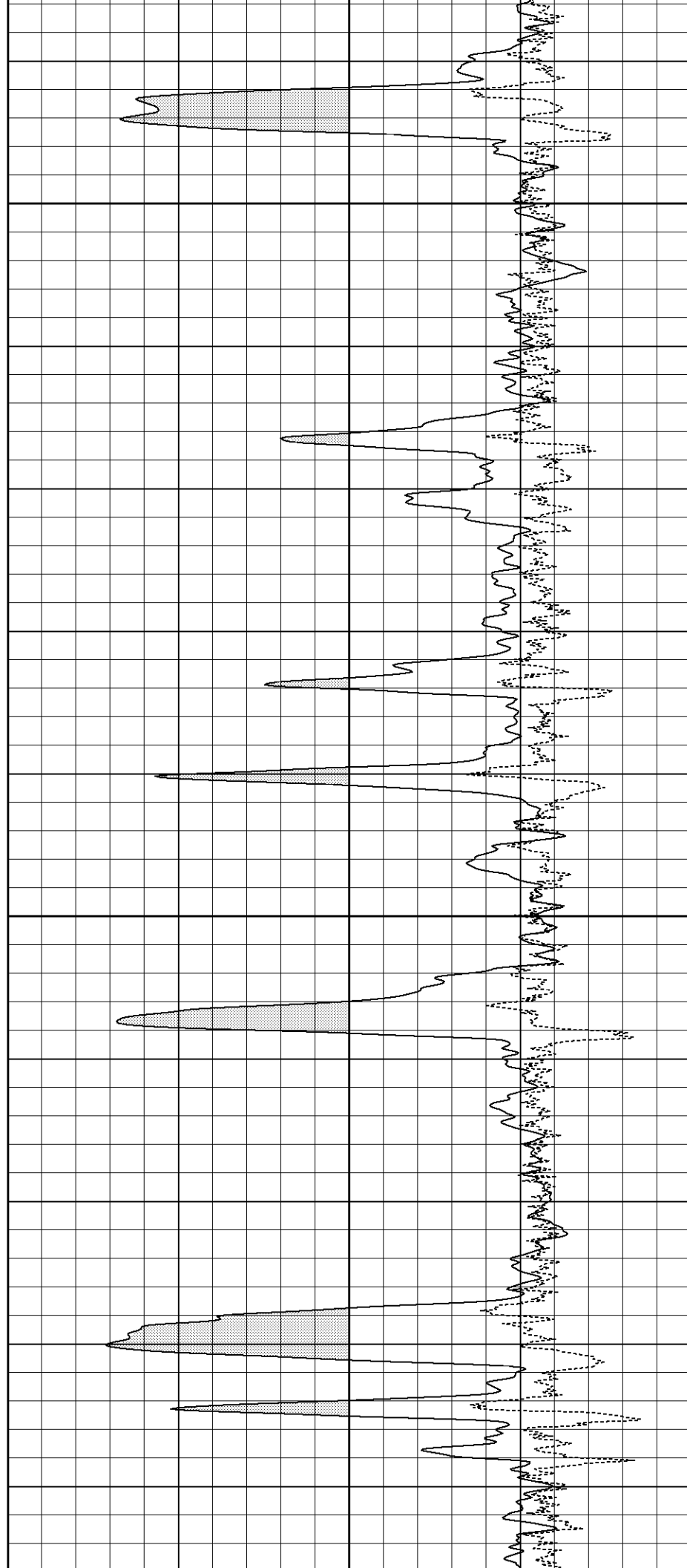
2000

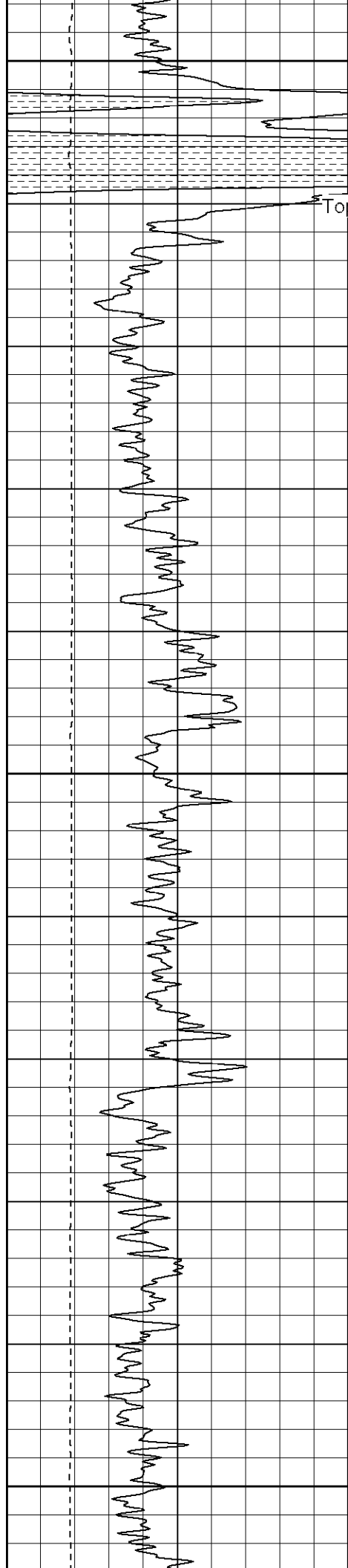




2050

2100



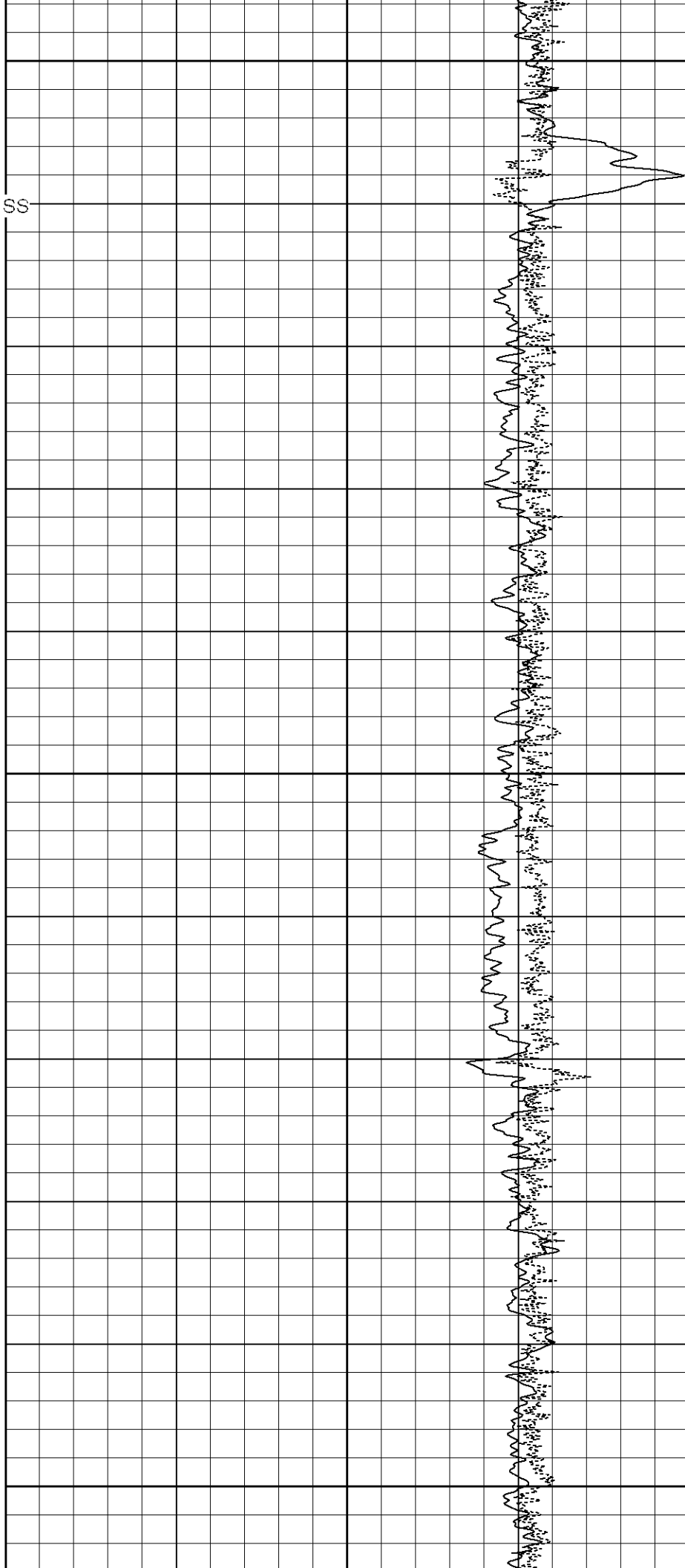


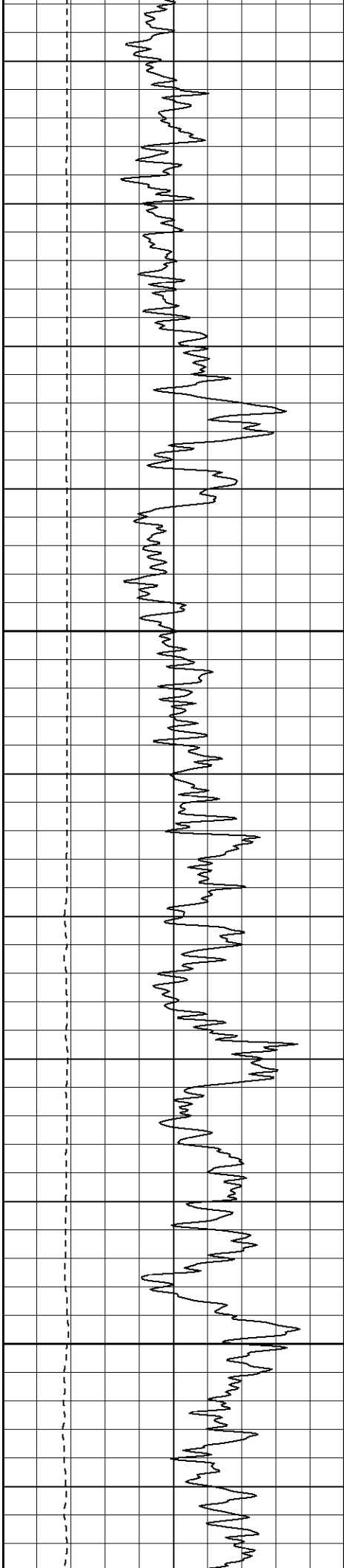
2150

Top of Trinidad SS

2200

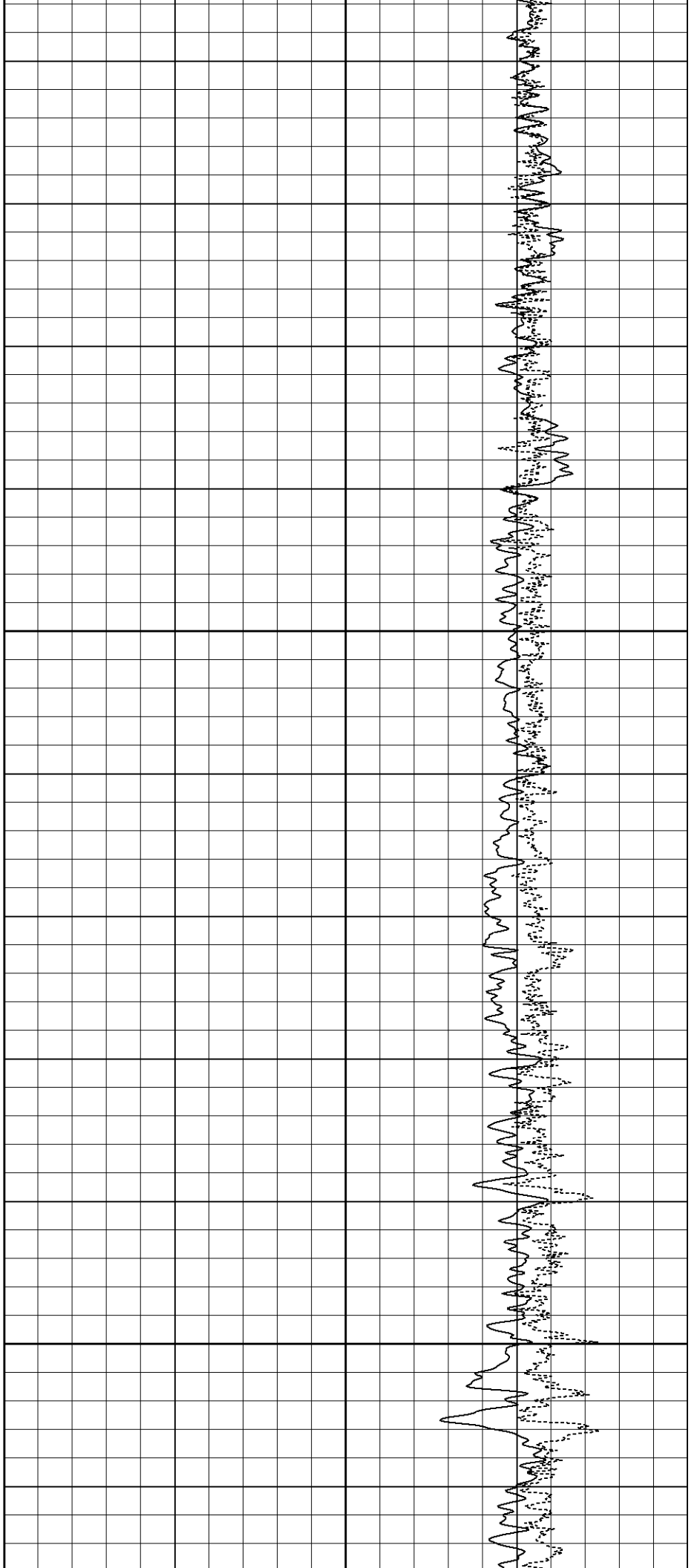
2250

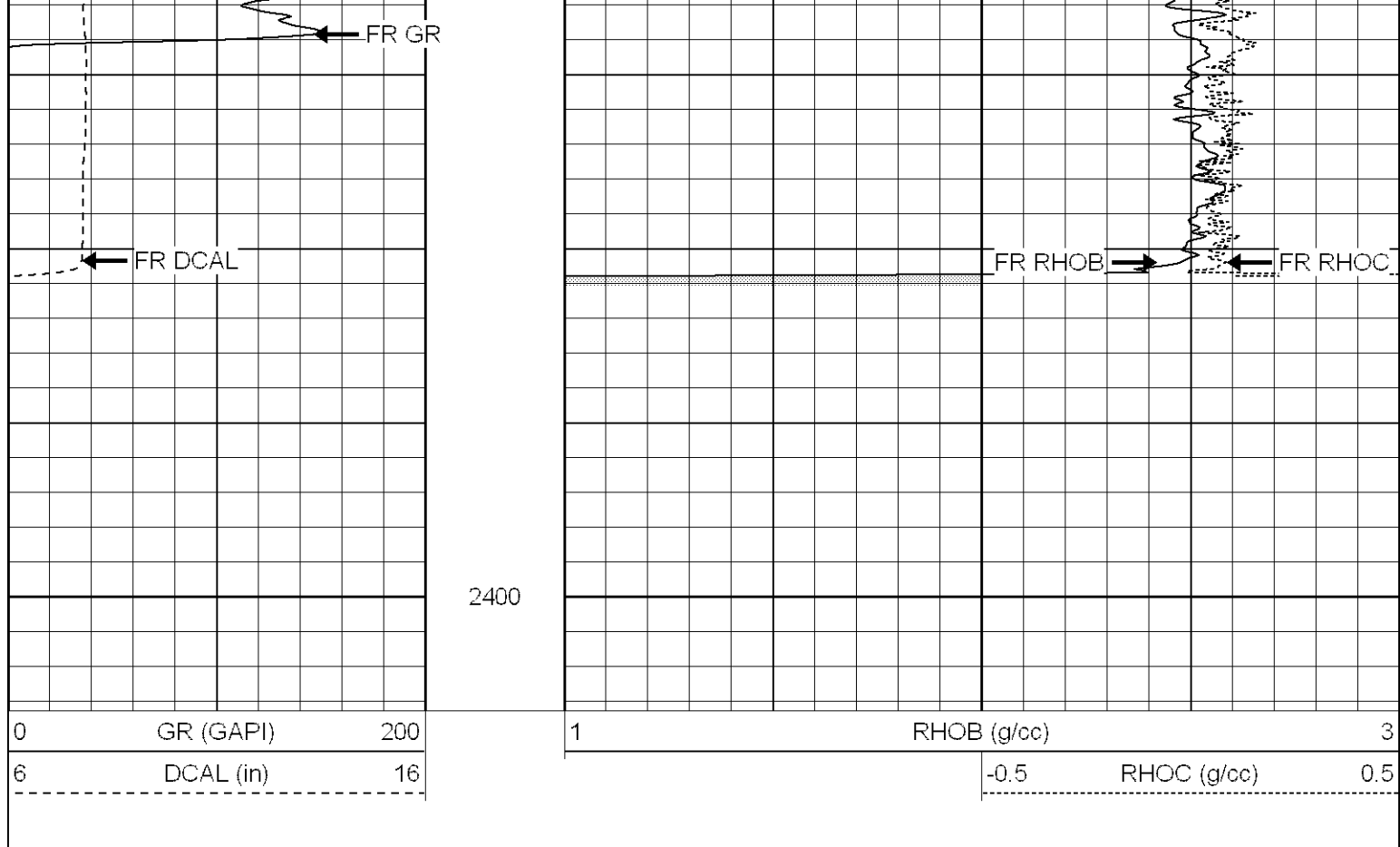




2300

2350





Calibration Report

Database File: xtone3605.db
 Dataset Pathname: pass1
 Dataset Creation: Fri Feb 15 07:46:57 2008 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Tue Feb 12 11:33:28 2008
 Downhole Cal Performed: Tue Feb 12 11:35:02 2008

Surface Calibration


Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.008	0.627	V	0.000	500.000	mmho-m	807.269	-6.223
Medium	0.010	0.749	V	0.000	550.000	mmho-m	744.131	-7.221
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.008	0.628	V	0.000	500.000	mmho-m	806.482	-6.237
Medium	0.010	0.749	V	0.000	550.000	mmho-m	744.204	-7.127

Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.256	500.305	mmho-m	0.020	500.507	mmho-m	1.001	-0.237
Medium	0.259	549.900	mmho-m	-0.095	549.850	mmho-m	1.001	-0.354
Shallow	2.515	0.018	V	500.000	2.000	Ohm-m	125.000	-3.000

Compensated Density Calibration Report					
Serial-Model:		902-2.75POH			
Source / Verifier:		/			
Master Calibration Performed:		Thu Jan 31 13:50:50 2008			
Master Calibration					
	Density		Far Detector		Near Detector
Magnesium	1.710	g/cc	1164.05	575.44	cps
Aluminum	2.590	g/cc	207.67	288.30	cps
Spine Angle = 68.15			Density/Spine Ratio = 0.474		
	Size		Reading		
Small Ring	7.95	in	2.15	V	
Large Ring	17.00	in	4.64	V	

Neutron Calibration Report			
Serial Number:	802		
Tool Model:	2.75POH		
Performed:	Fri Feb 01 09:47:24 2008		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	
Gamma Ray Calibration Report			
Serial Number:	801		
Tool Model:	2.75POH		
Performed:	Fri Feb 01 08:19:35 2008		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.8000	GAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	38.34		None	0.75	1.50	5.00
			GR-2.75POH (801) Probe	3.73	2.75	43.00
NEU	32.80		NEU-2.75POH (802) Probe Epithermal	4.75	2.75	58.00
LSD	24.97		CDL-2.75POH (902) Probe	8.43	2.75	106.00

Tool Joint	Depth (ft)	Length (ft)	Weight (lb)	O.D. (in)
ESD	24.67			
DCAL	24.70			
SSD	24.45			
Probe		0.89	3.50	20.00
CILD	10.60			
SP	10.60			
DIL-G (5375) Gearhart		21.33	4.00	345.00
CILM	6.89			
RLL3	1.70			
Dataset: xtone3605.db: field/well/run1/pass1 Total Length: 39.88 ft Total Weight: 577.00 lb O.D.: 4.00 in				