Patterson

COMPENSATED DENSITY NEUTRON LOG

Company Pioneer Natural Resources
Well Wrangler 44-32 Tr
Field Purgatoire River
County Las Animas
State Colorado

Company Pioneer Natural Resources

Well Wrangler 44-32 Tr

Field Purgatoire River

County Las Animas State Colorado

Location: API # : 05 071 08561 00

1104' FSL & 922' FEL

SEC 32 TWP 31S RGE 66W

Other Services

SIL

Elevation

K.B. 7467'
D.F. -------
G.L. 7463'

Permanent Datum	Ground Level	Elevation 7463'
Log Measured From	Kelly Bushing 4' Above G.L.	
Drilling Measured From	Kelly Bushing	

Date	10-19-05		
Run Number	Two		
Depth Driller	2210'		
Depth Logger	2220'		
Bottom Logged Interval	2218'		
Top Log Interval	Surface		
Casing Driller	8 5/8" @ 1011'		
Casing Logger	1011'		
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	12:45 P.M.		
Time Logger on Bottom	4:00 P.M.		
Maximum Recorded Temperature	///		
Equipment Number	T720		
Location	Trinidad		
Recorded By	M. Norton		
Witnessed By	Mr. Edsel Pool		

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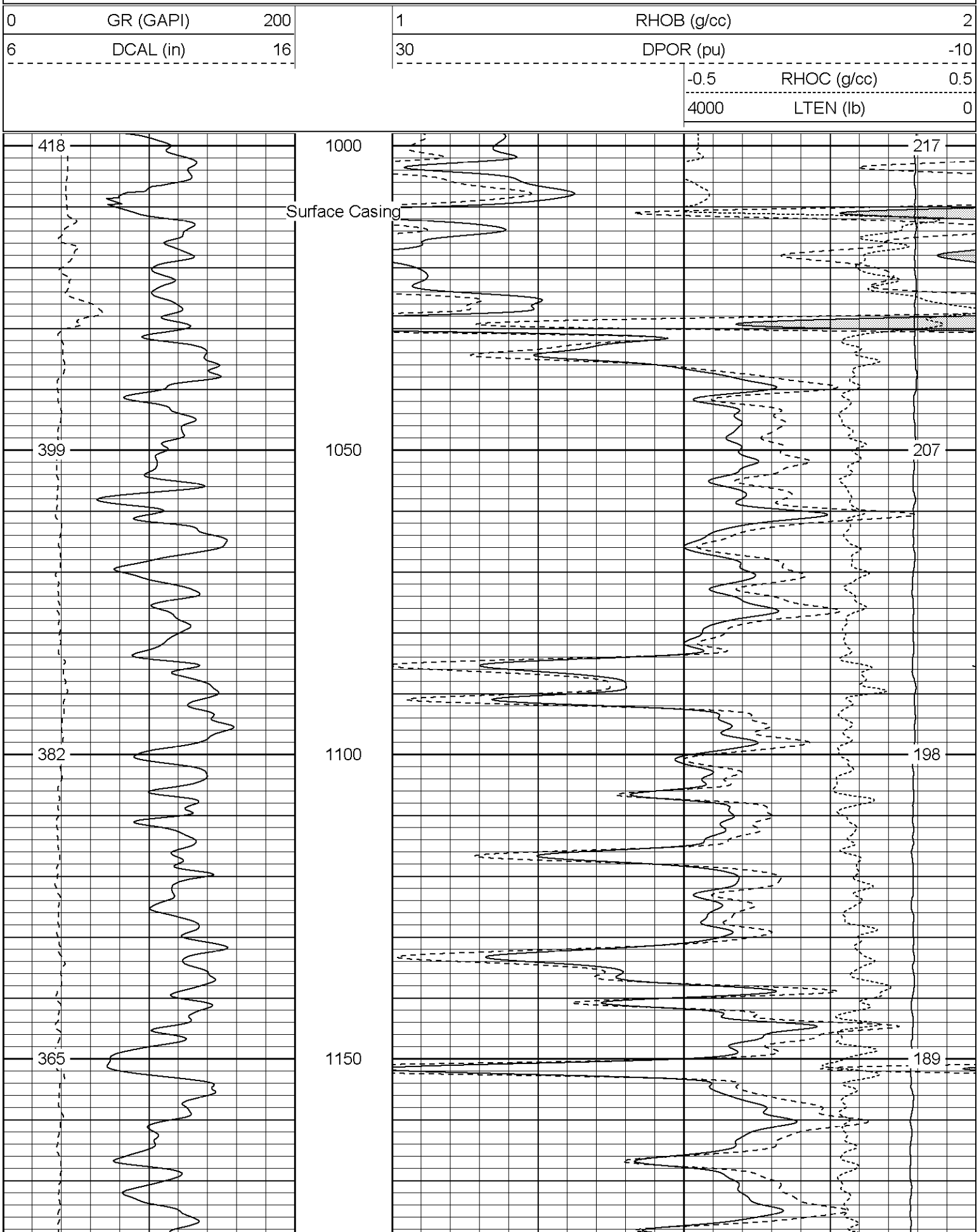
Comments

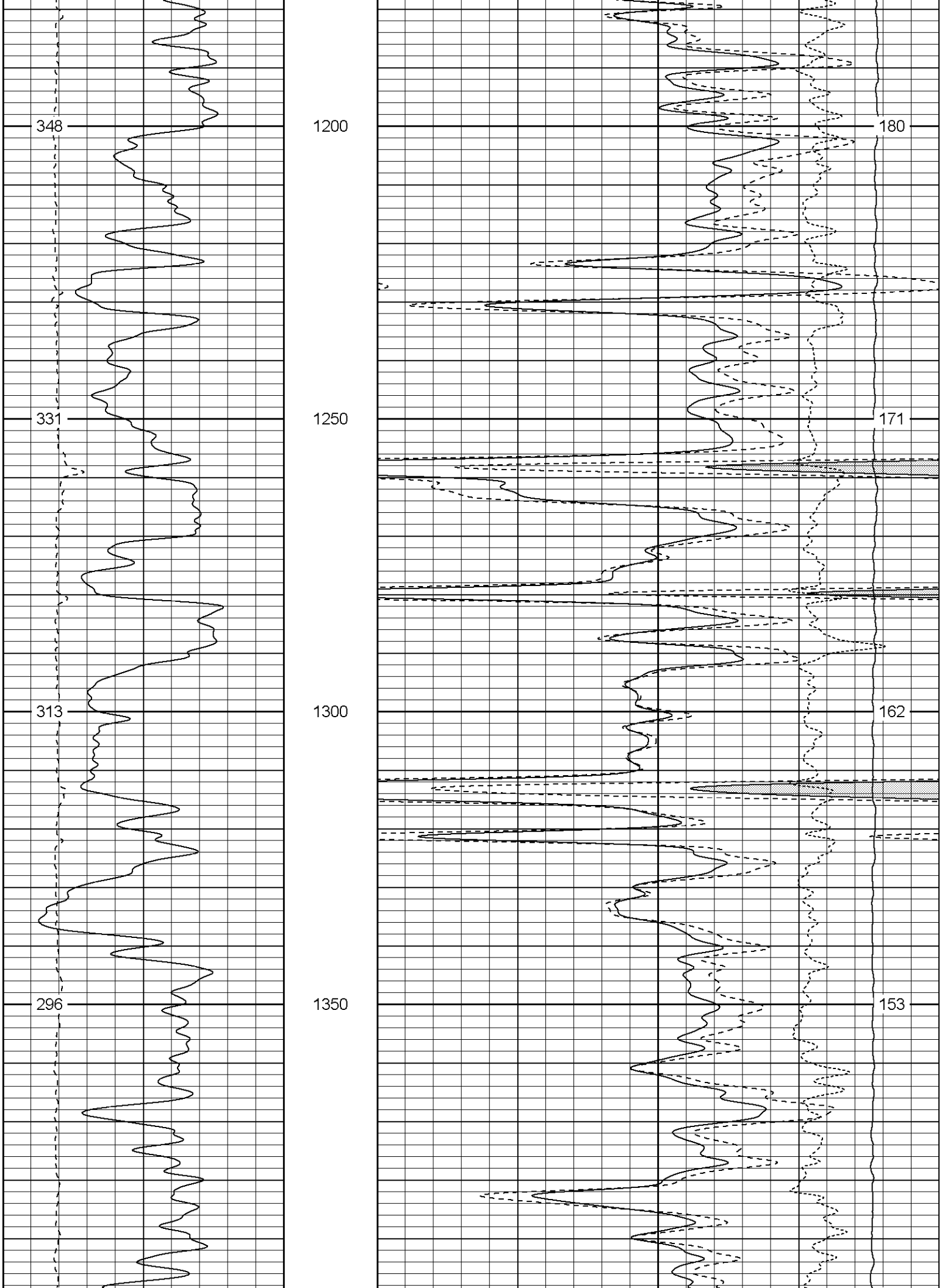
Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Well Directions:
Aguilar West, Second Left Past Jarosa Gravel Pit On Main Road,
Drive Thru One Location, Go Thru Double Gates Dead End On Location.

Patterson

Main Pass

Database File:	wranglertr.db
Dataset Pathname:	pass4.1
Presentation Format:	cdl
Dataset Creation:	Wed Oct 19 17:25:00 2005 by Calc Warrior 7.0 STD Ope
Charted by:	Depth in Feet scaled 1:240

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296
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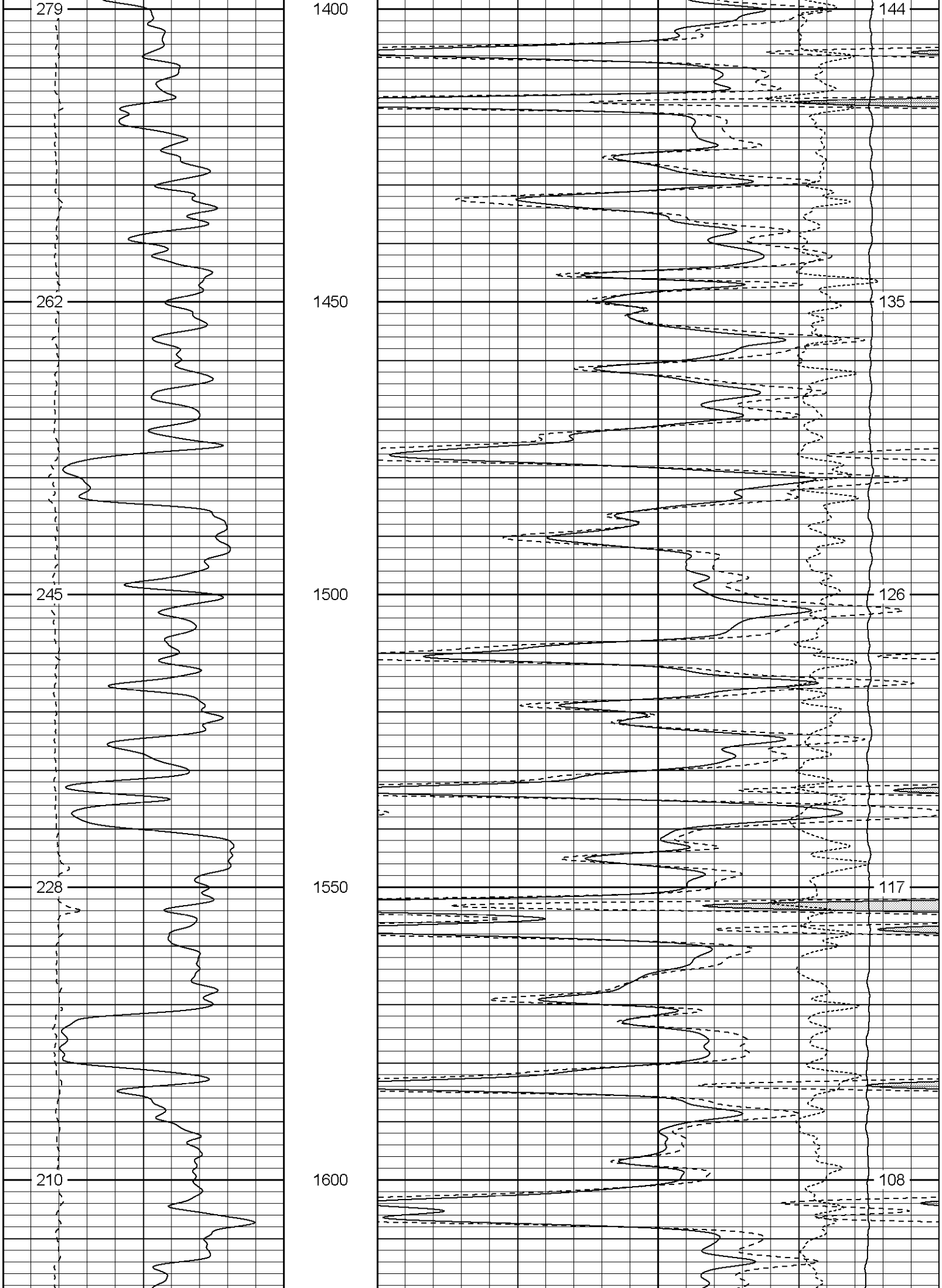
1250
1300
1350
180
171
162
153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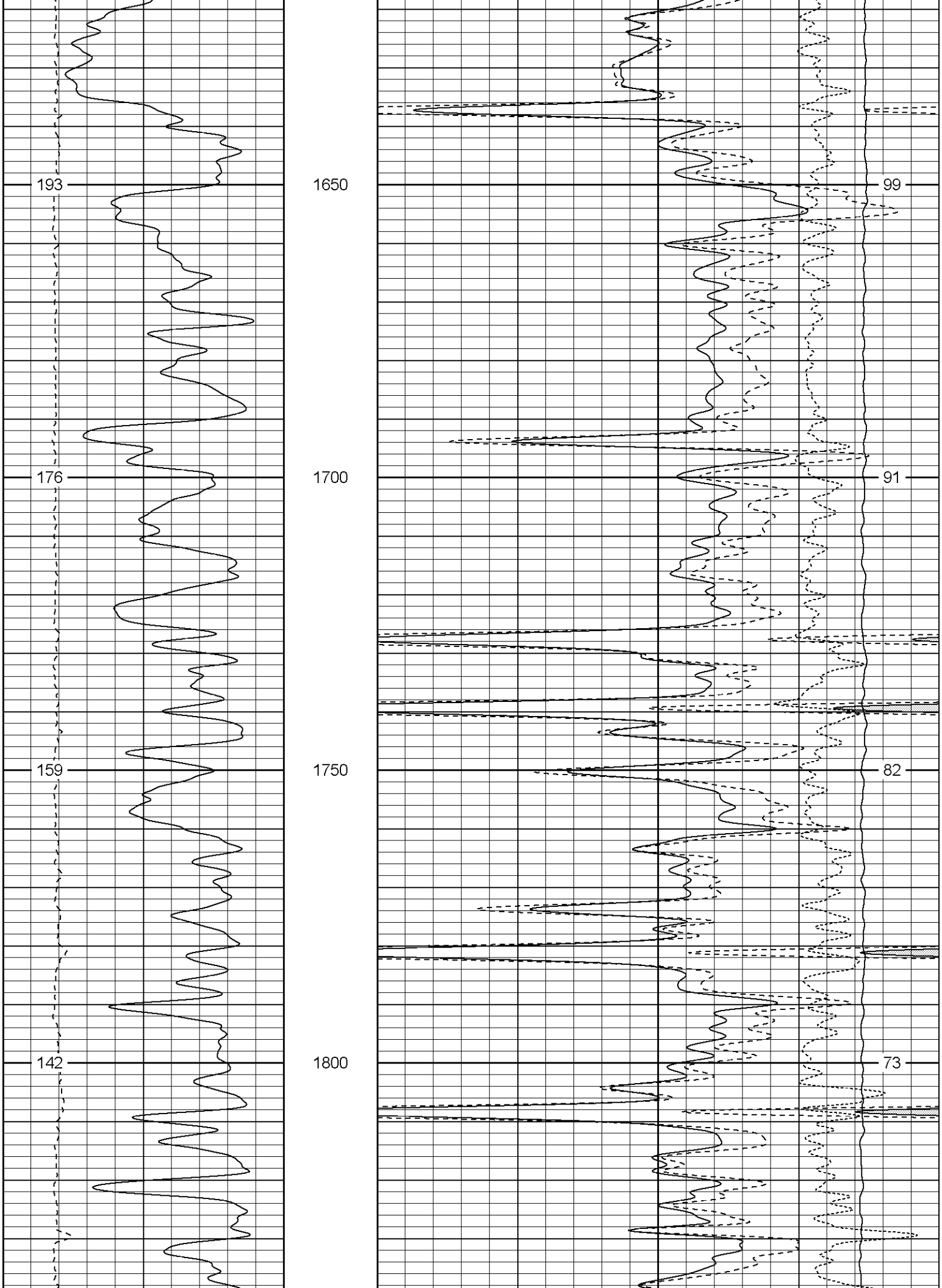
1450
1500
1550
1600
144
135
126
117
108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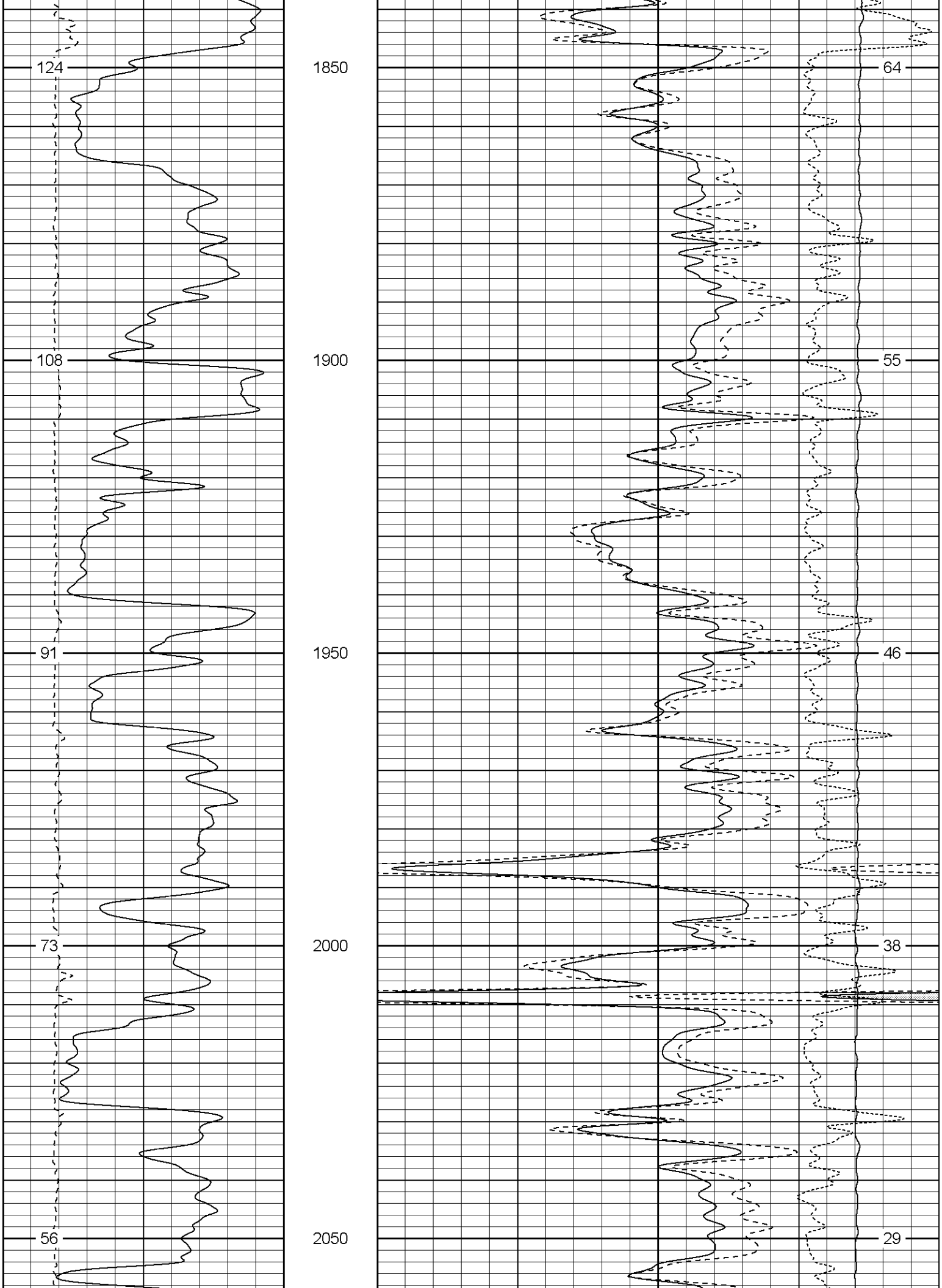
159
142
1650
1700
1750
1800
99
91
82
73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108
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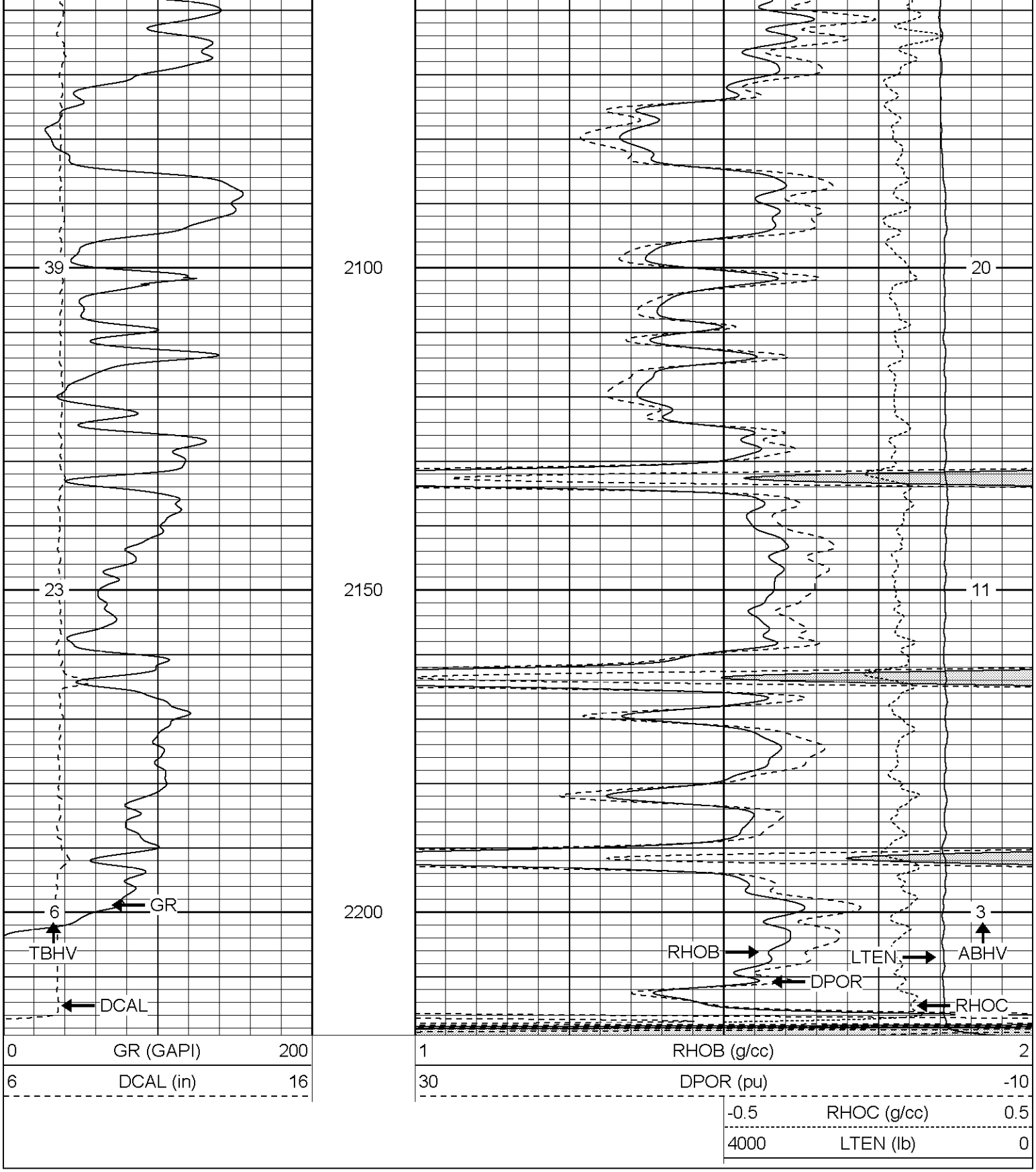
1900
1950
2000
2050
64
55
46
38
29



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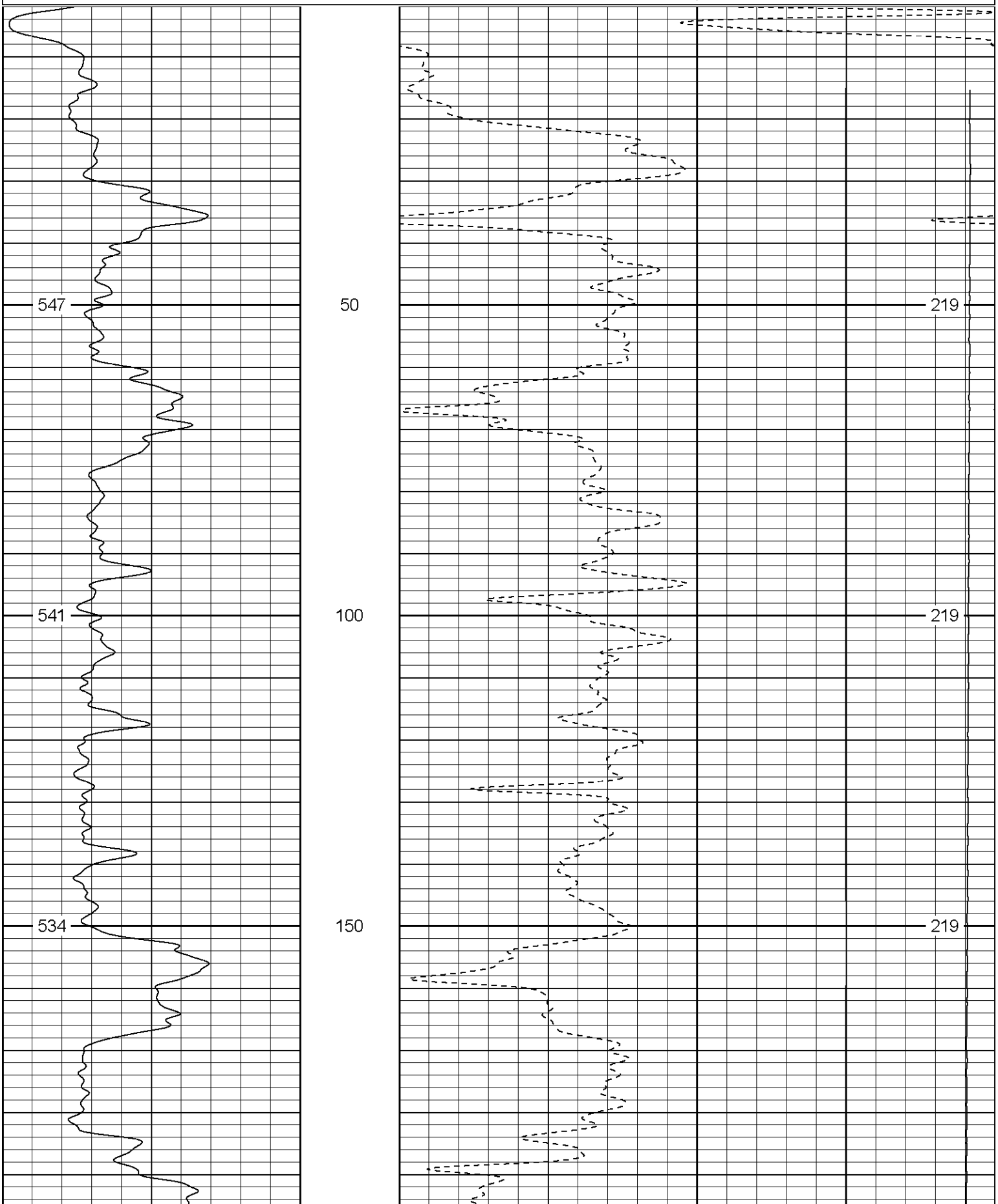
Main Pass

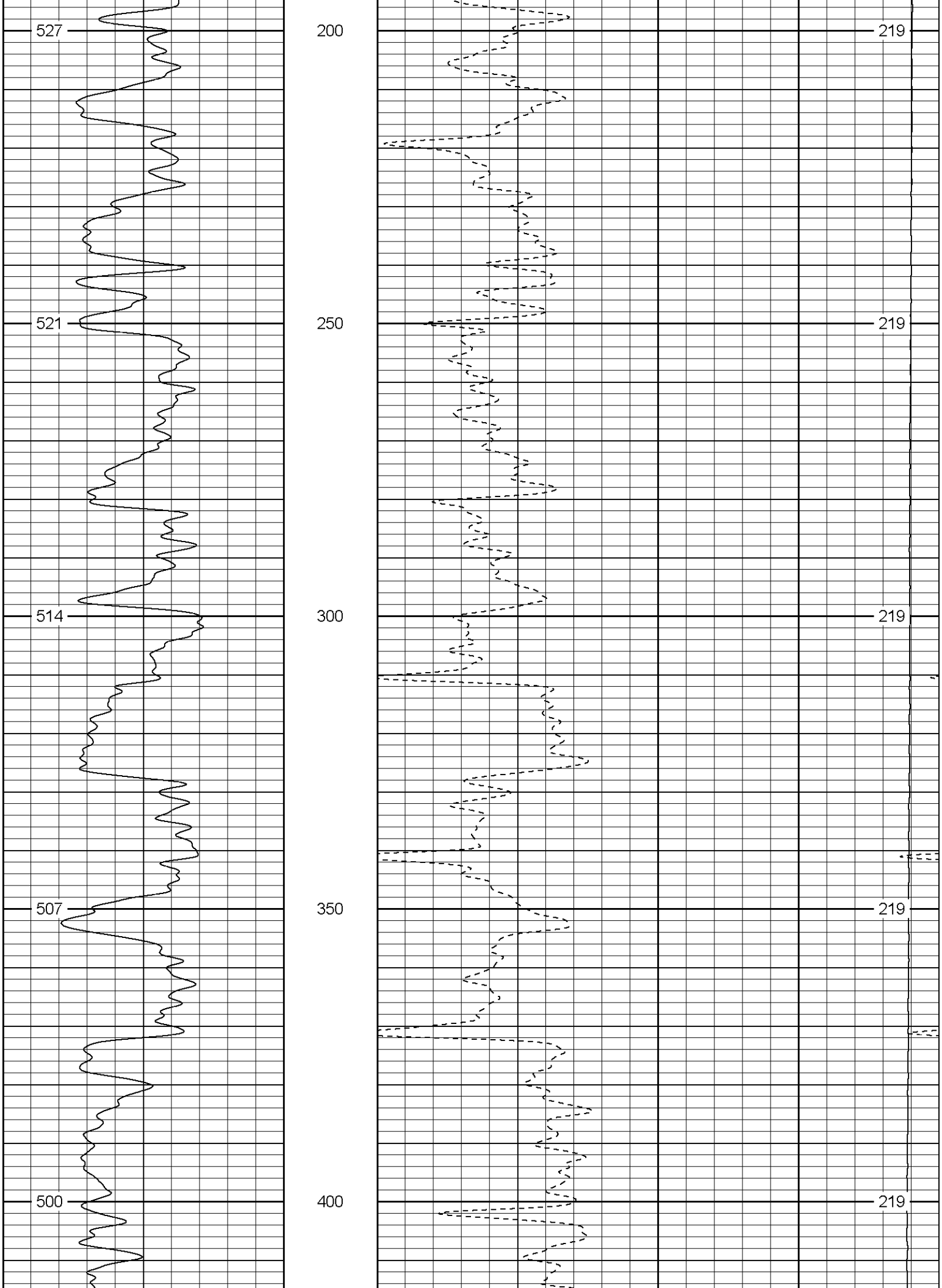
Database File:	wranglertr.db
Dataset Pathname:	pass4.1
Presentation Format:	cdnl
Dataset Creation:	Wed Oct 19 17:25:00 2005 by Calc Warrior 7.0 STD Ope

Charted by: Depth in Feet scaled 1:240

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

30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0

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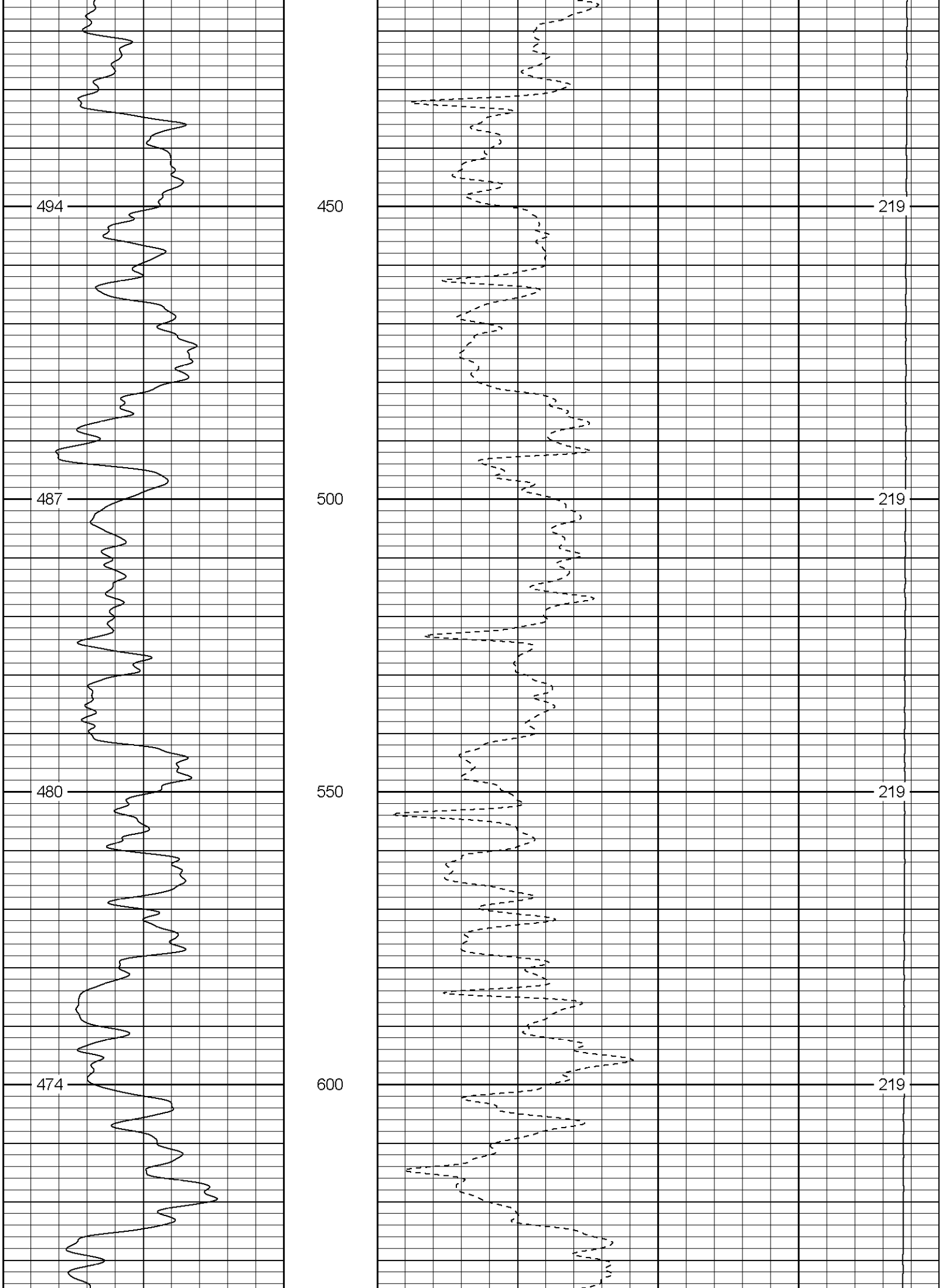
219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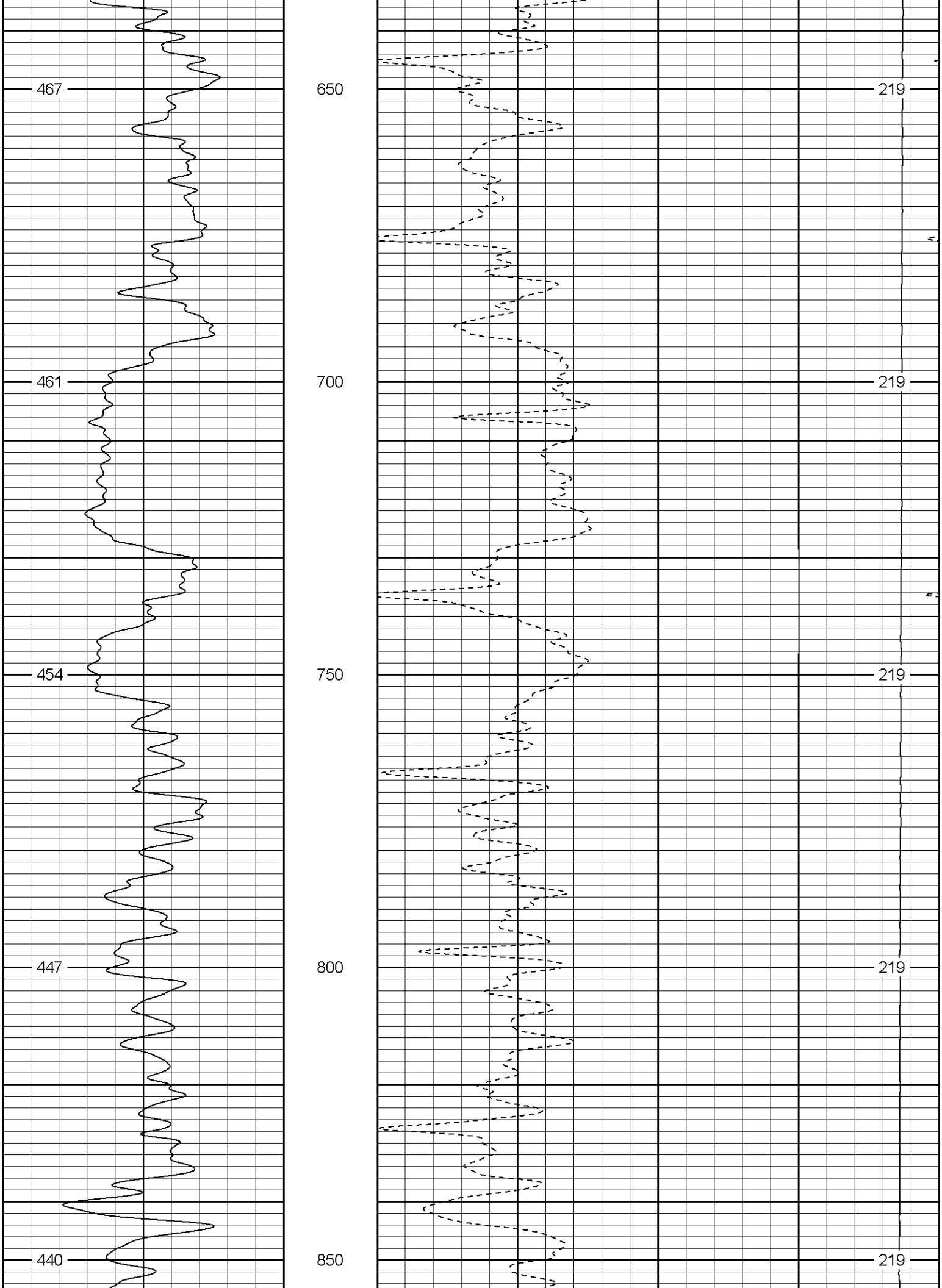
600
219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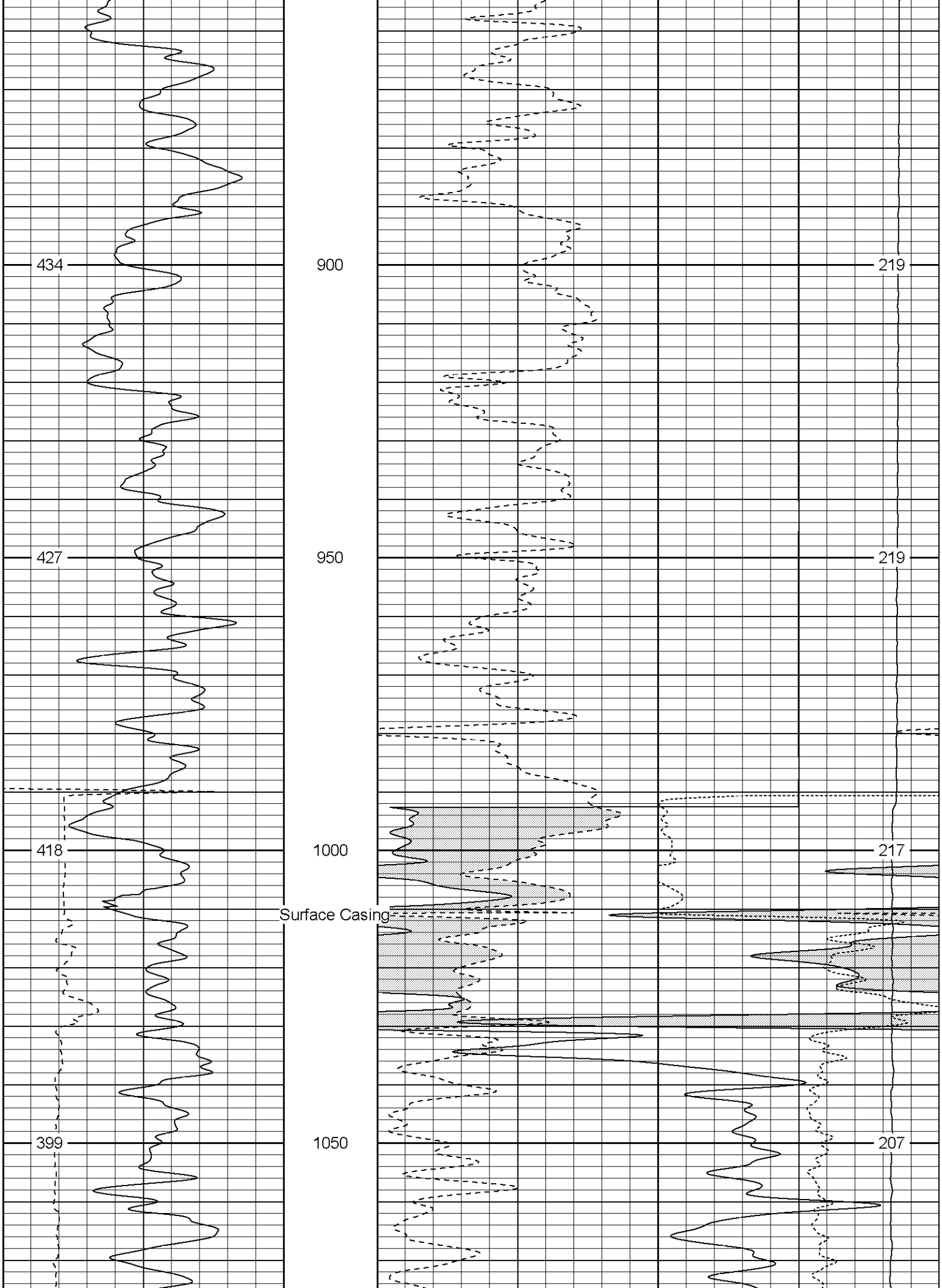
219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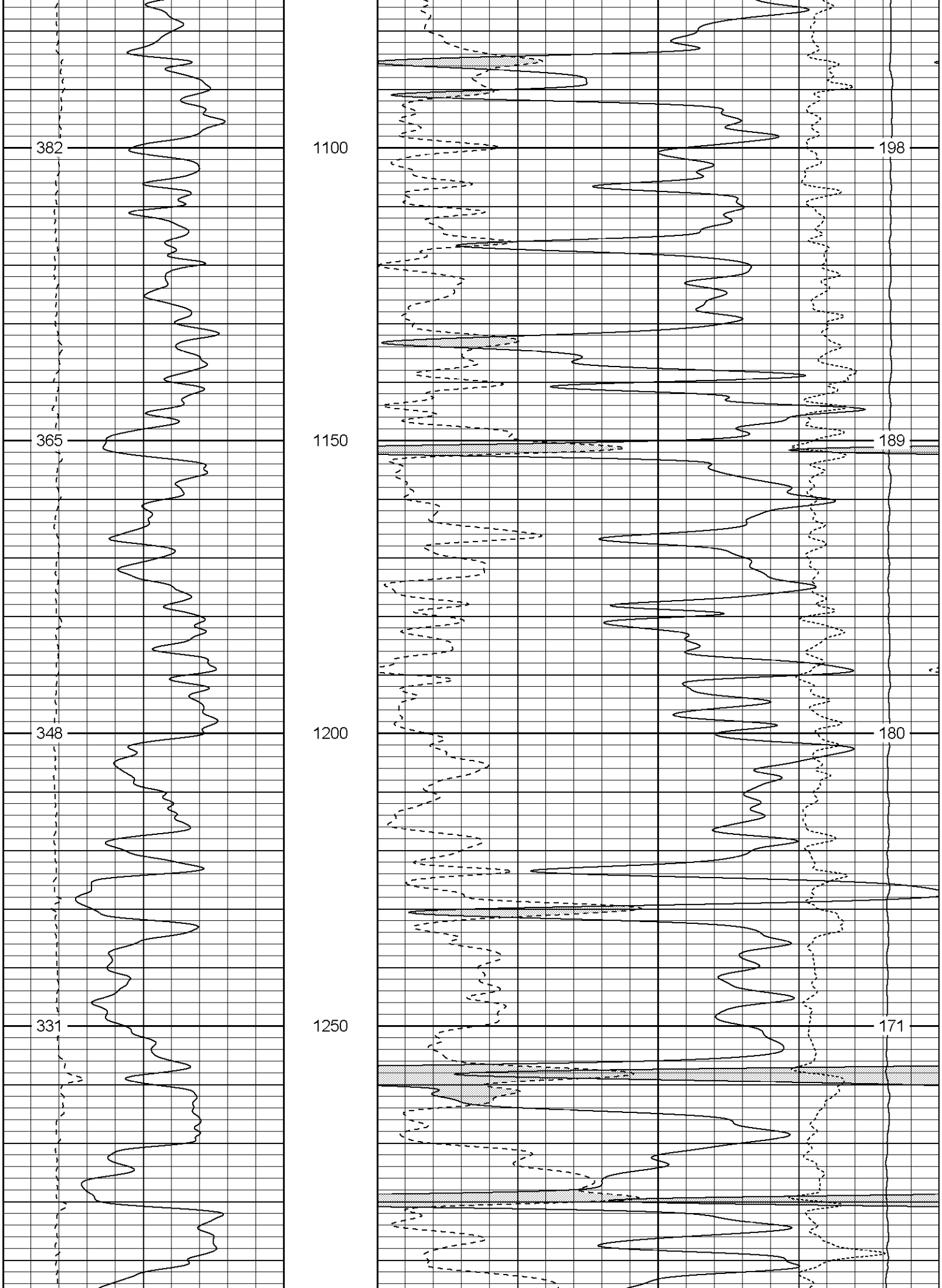
219
427
950
219
418
1000
217
Surface Casing
399
1050
207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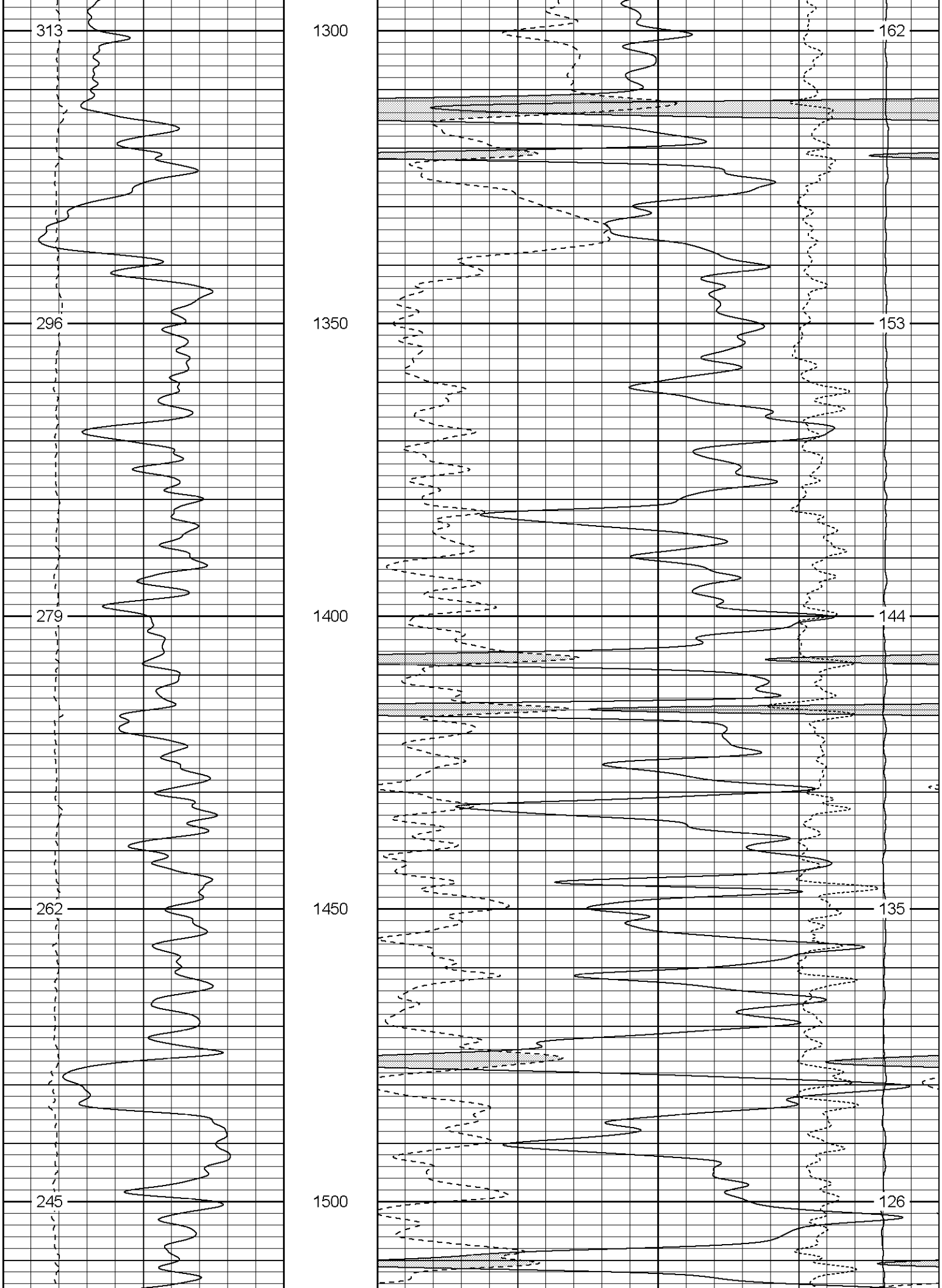
1100
198
365
1150
189
348
1200
180
331
1250
171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296
279
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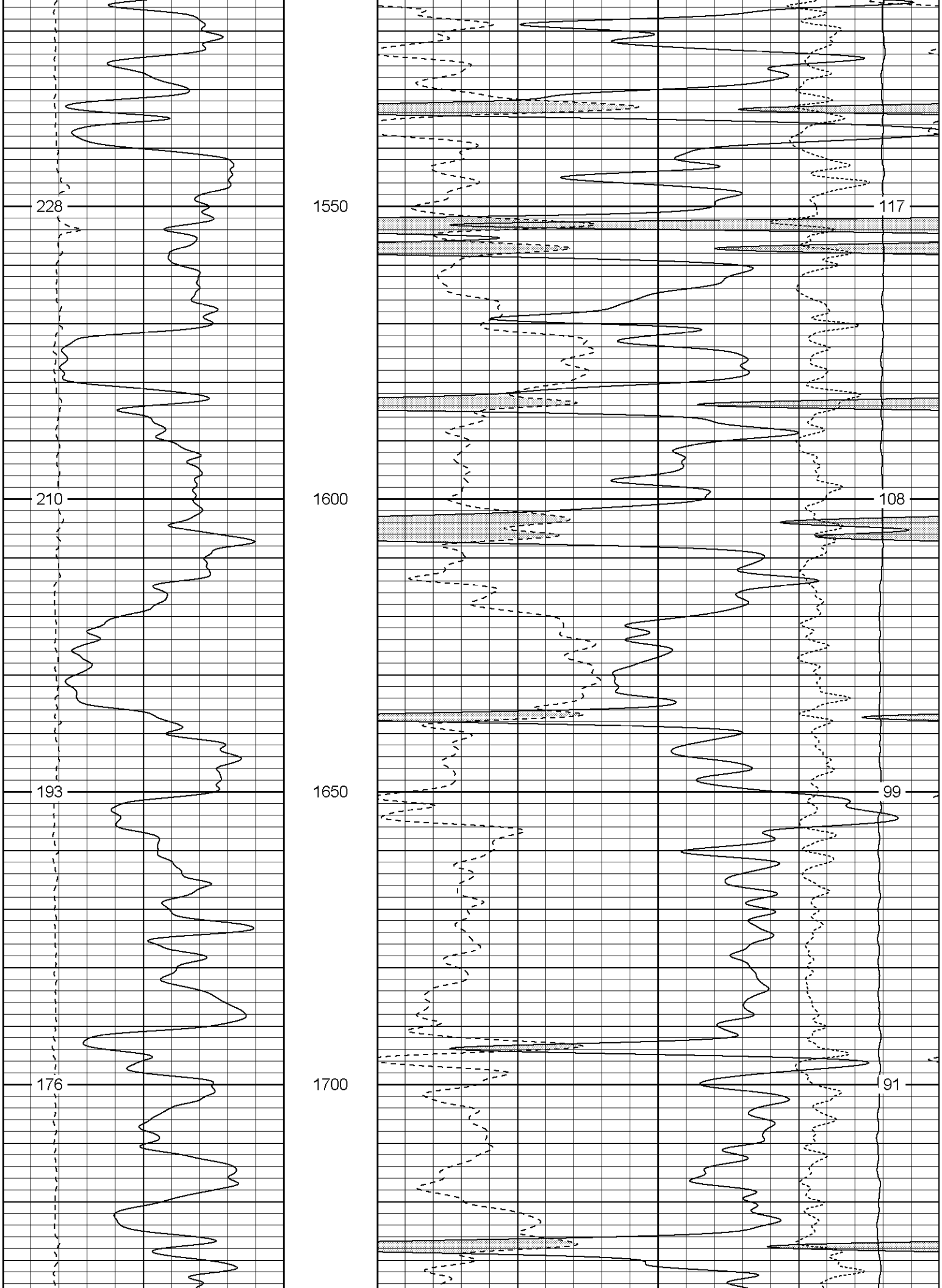
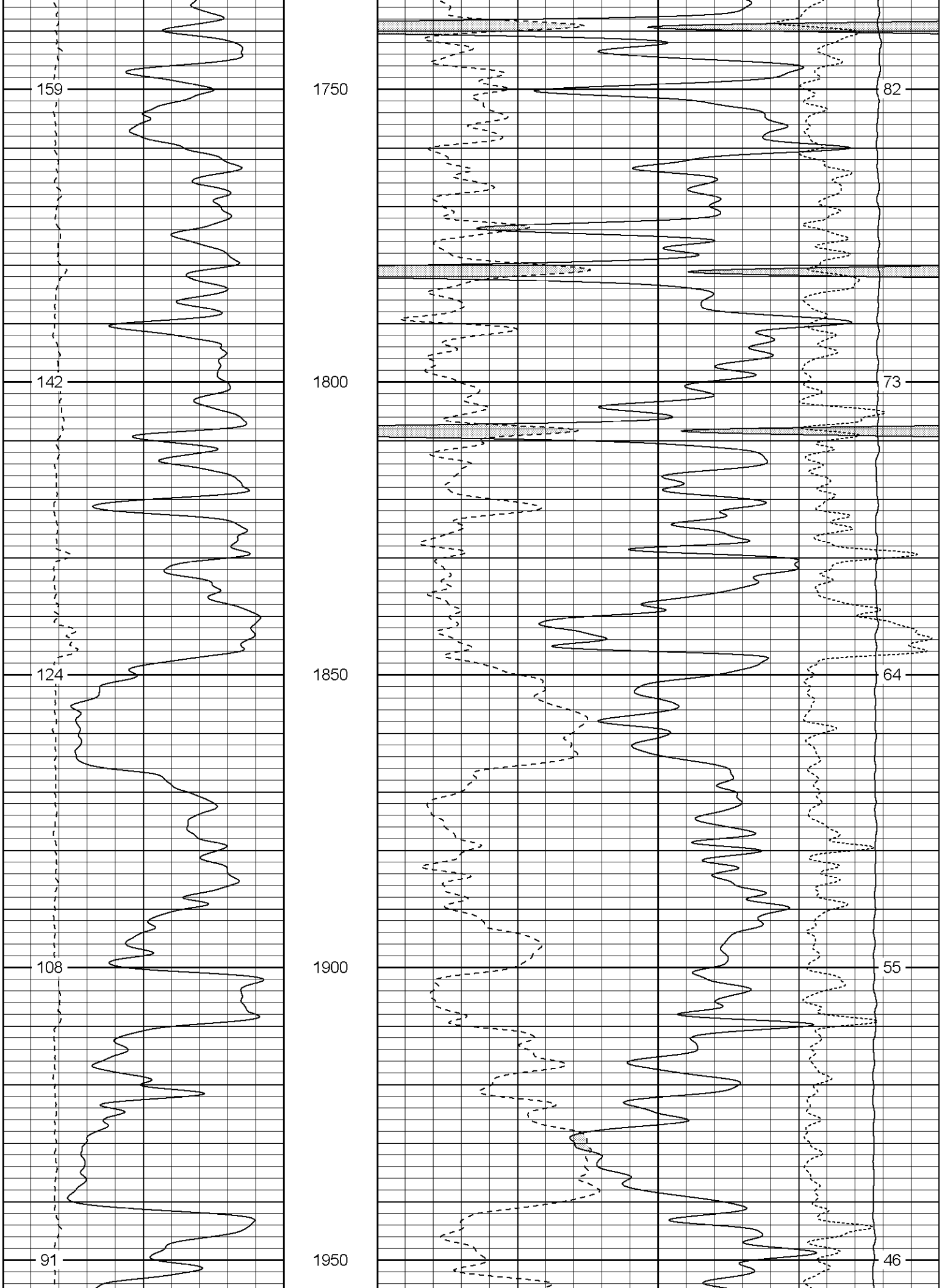
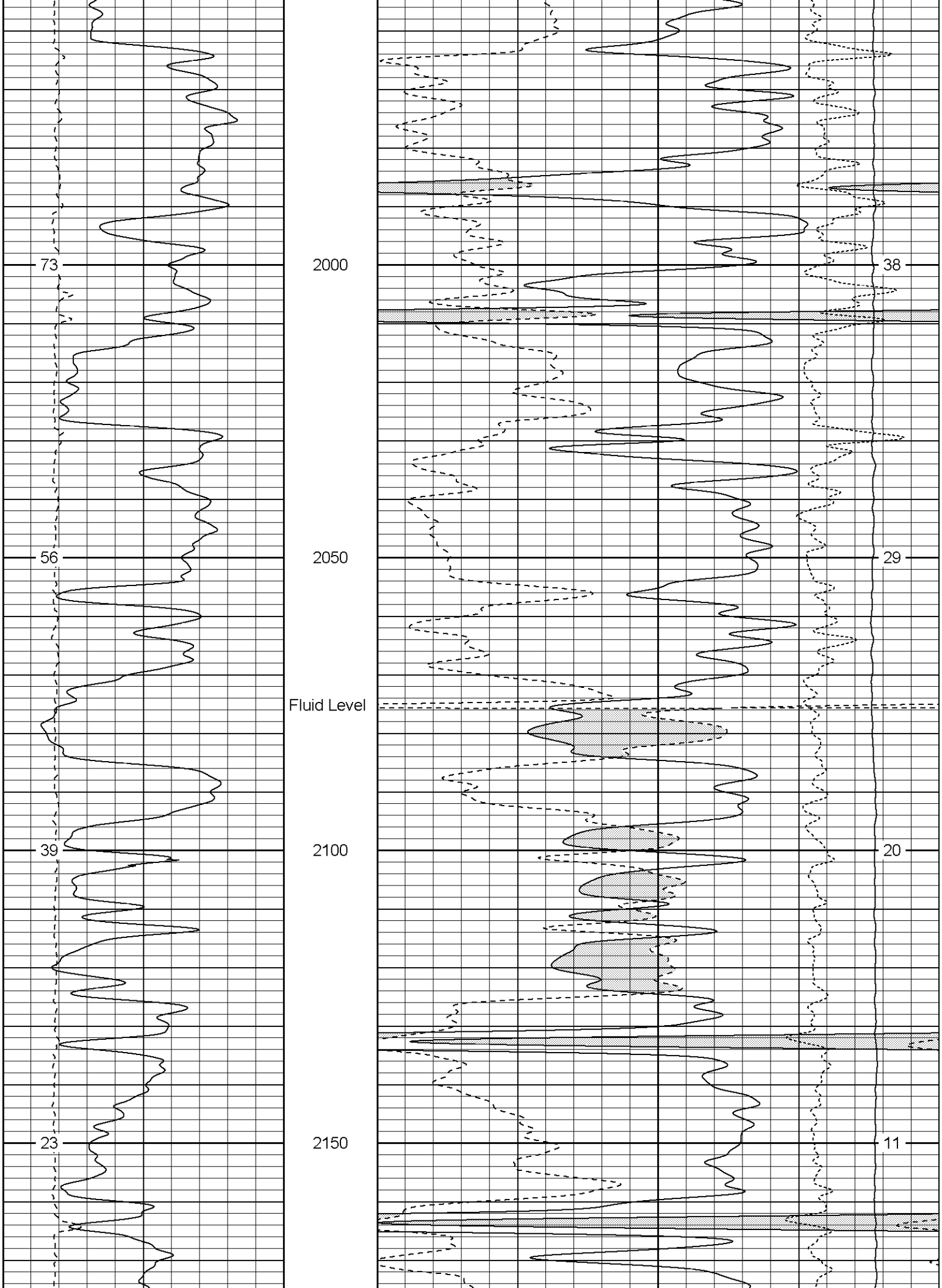
245
1300
1350
1400
1450
1500
162
153
144
135
126


228
210
193
176
1550
1600
1650
1700
117
108
99
91


159
142
124
108
91
1750
1800
1850
1900
1950
82
73
64
55
46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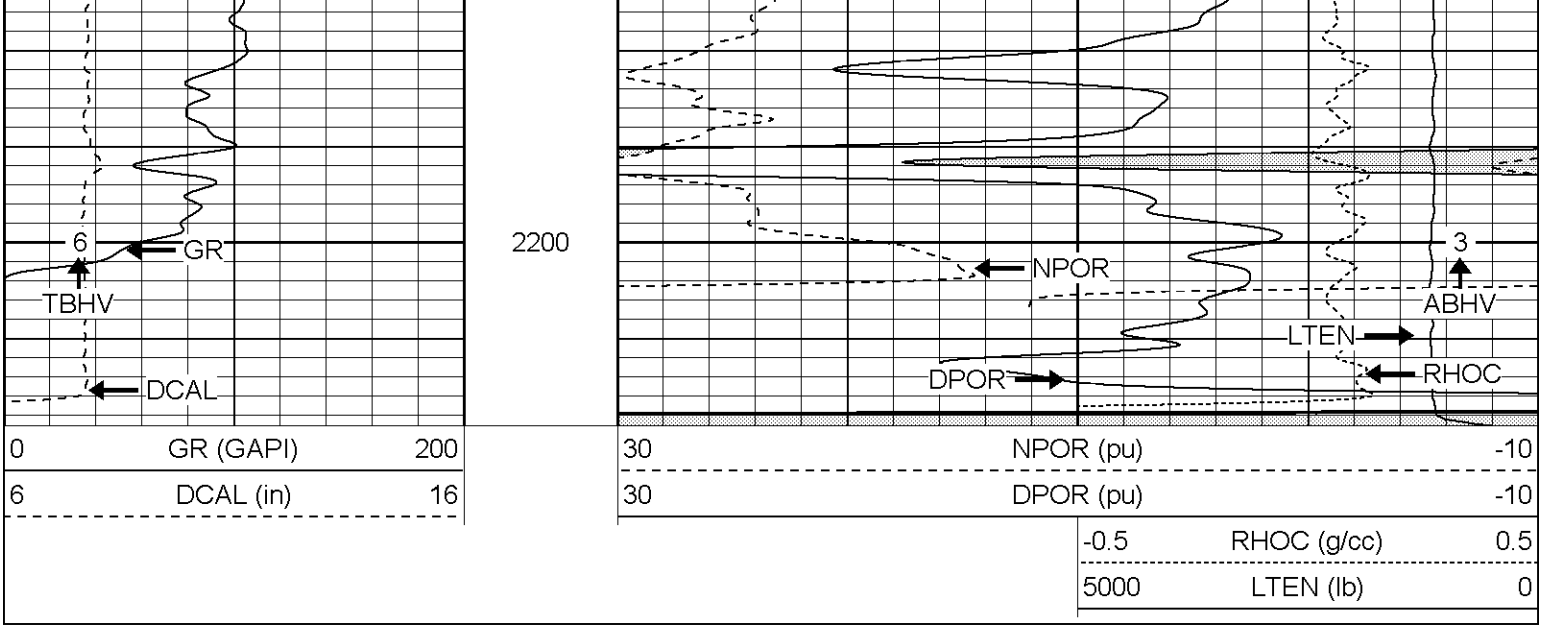
56
39
23
2000
2050
Fluid Level
2100
2150
38
29
20
11



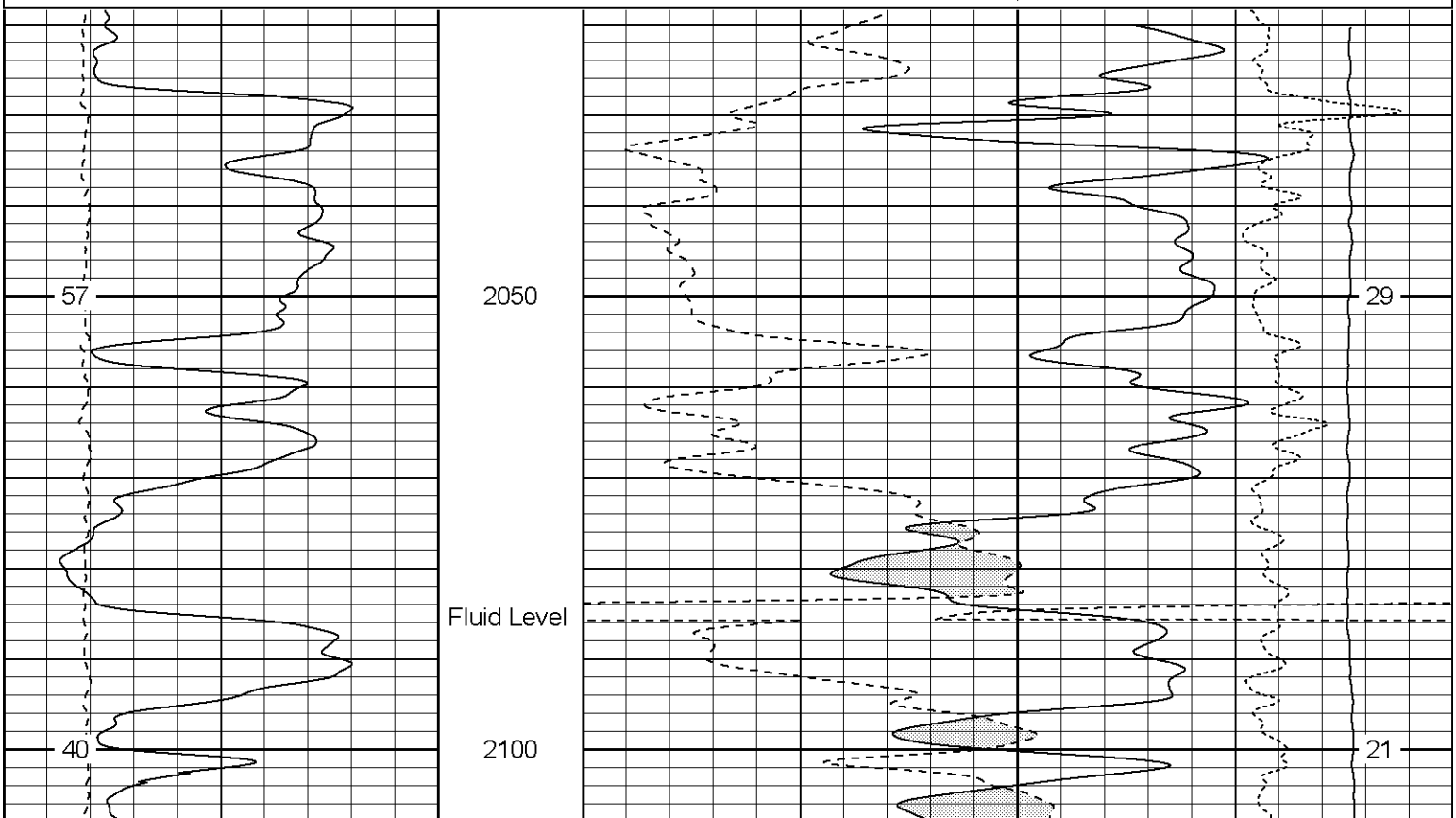
0	GR (GAPI)	200
6	DCAL (in)	16
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0

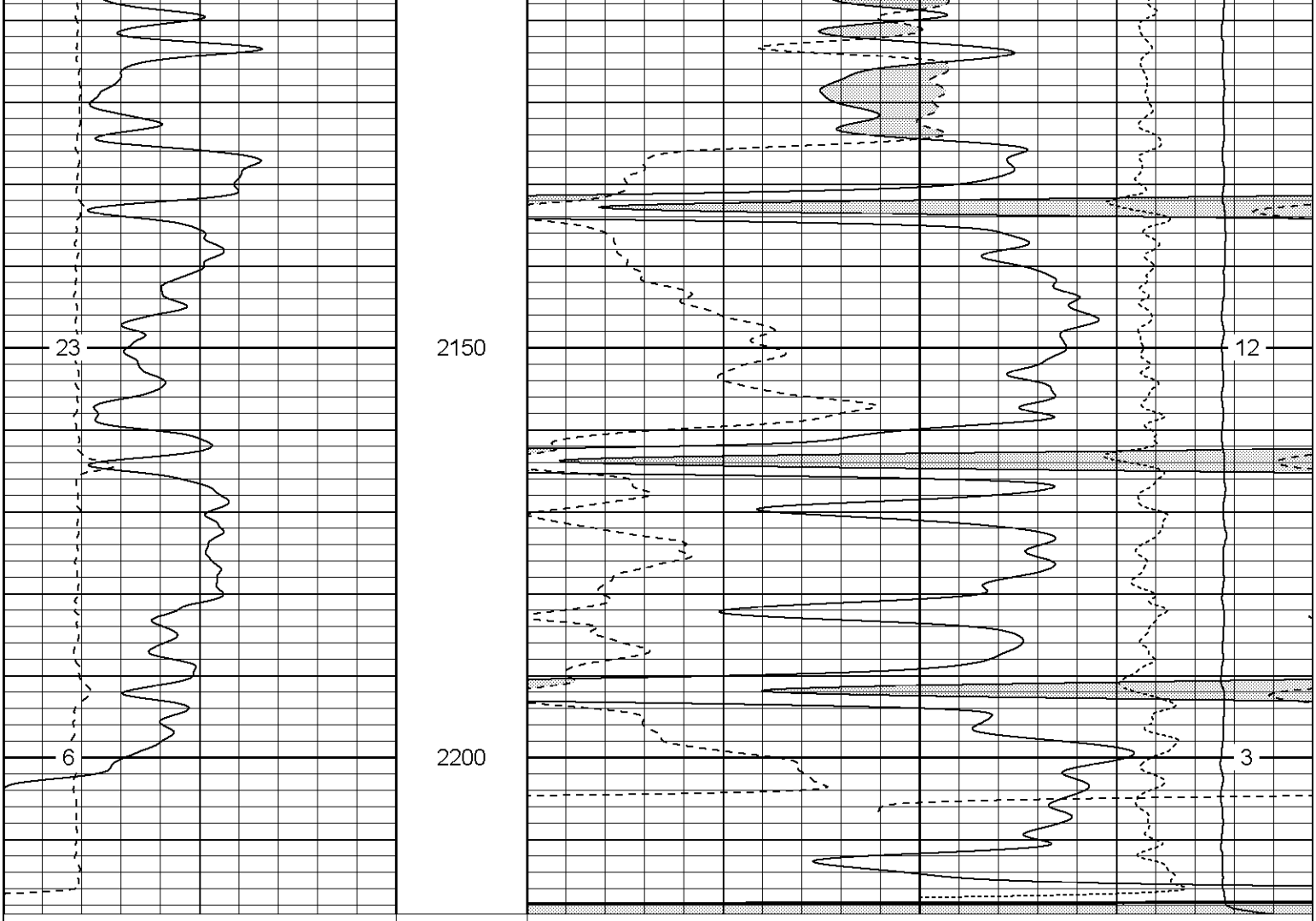
Patterson

Repeat Section

Database File:	wranglertr.db
Dataset Pathname:	pass3.1
Presentation Format:	cdnl
Dataset Creation:	Wed Oct 19 17:04:23 2005 by Calc Warrior 7.0 STD Ope
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0

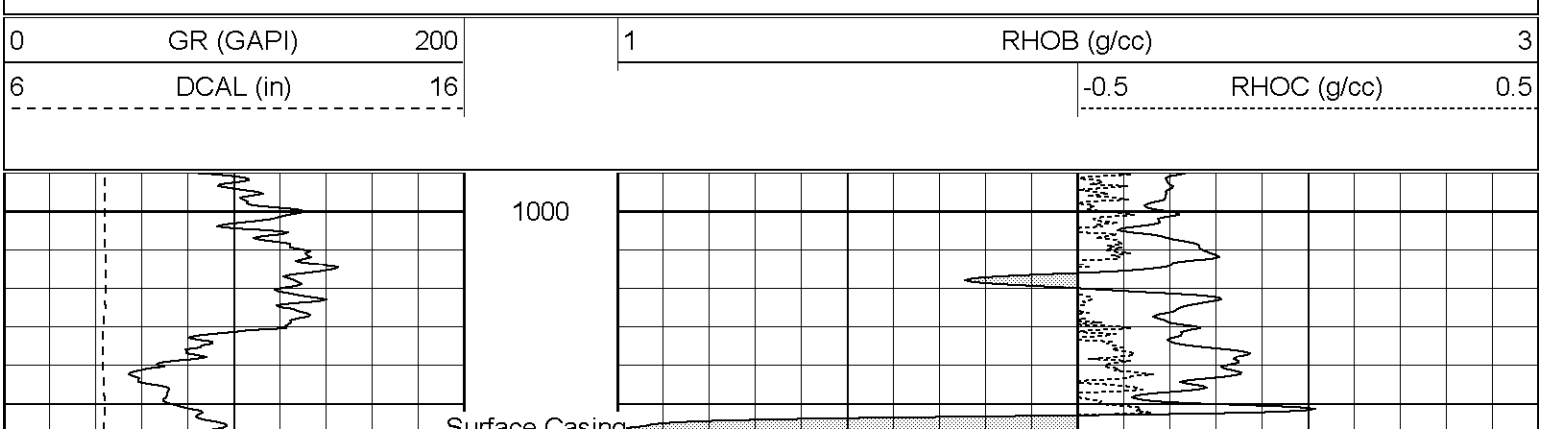


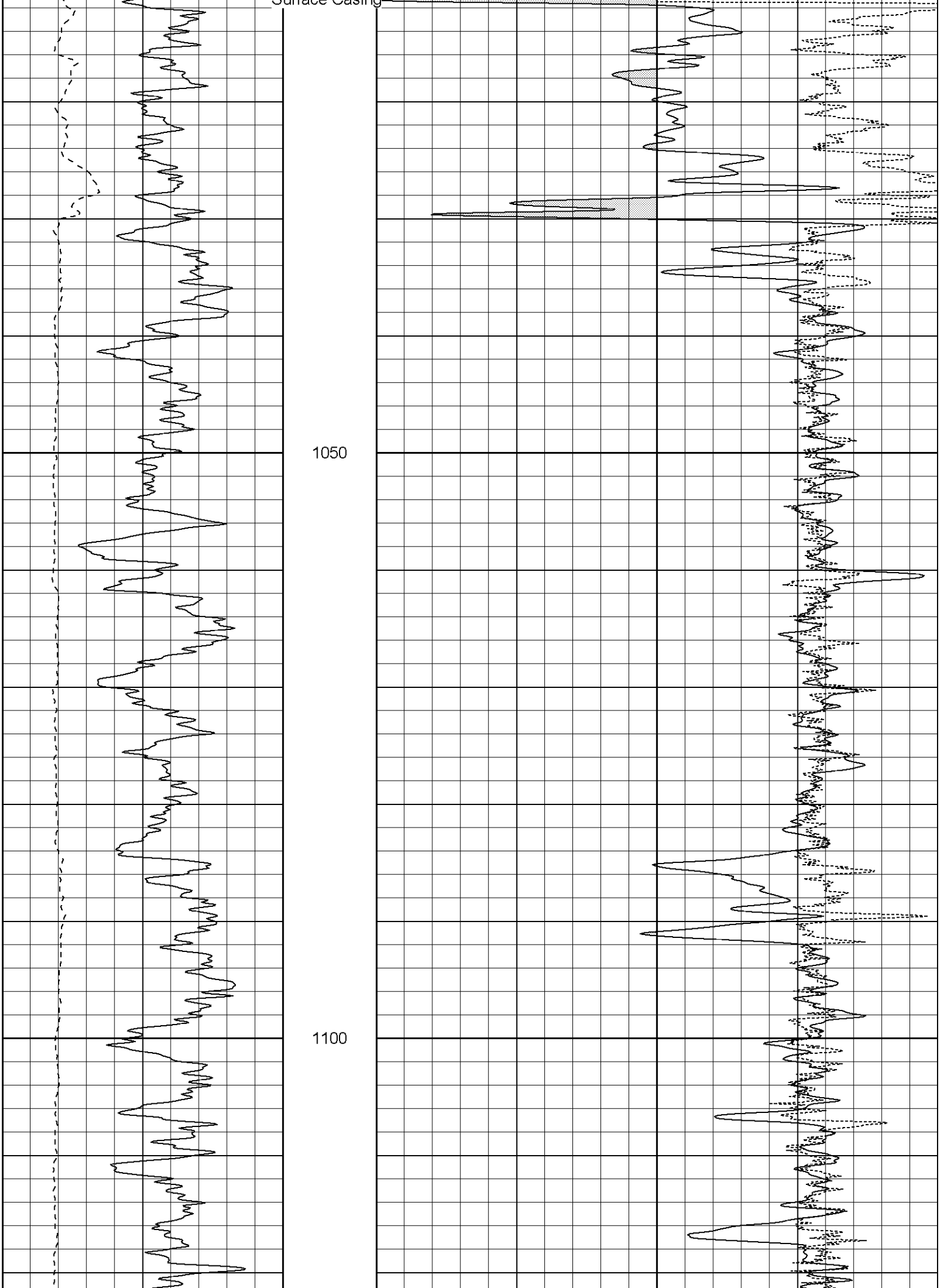


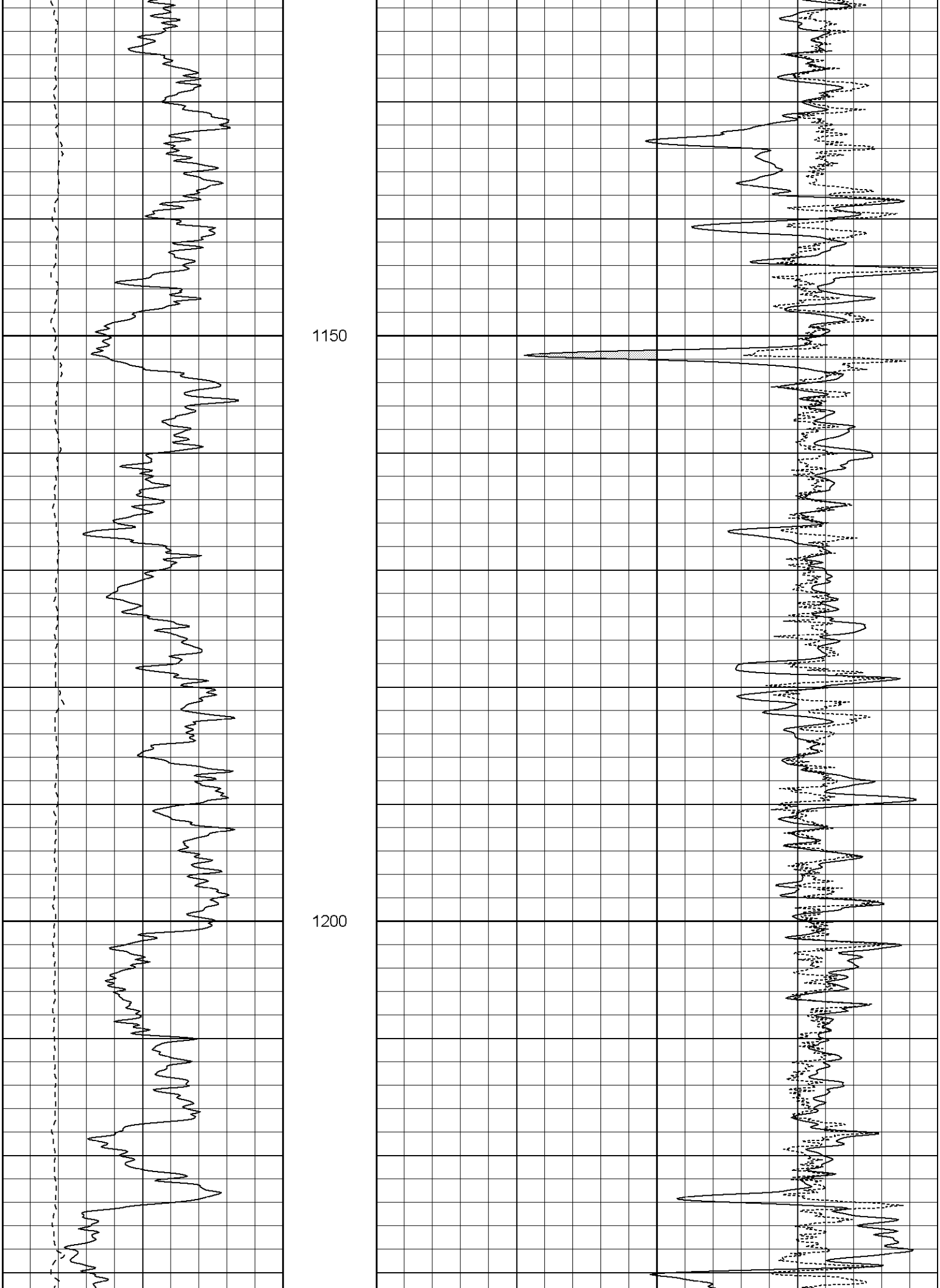
Patterson

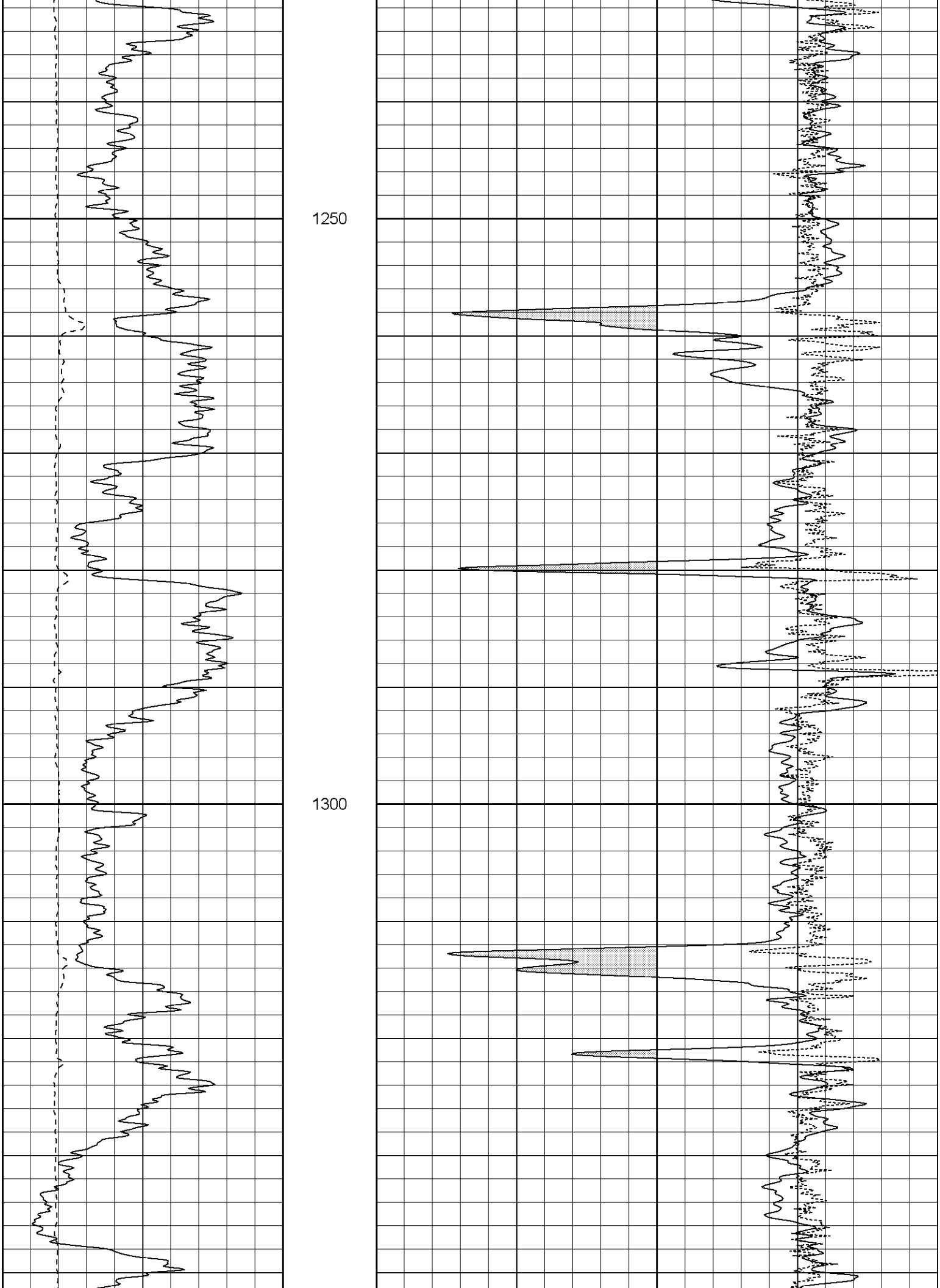
High Resolution Pass

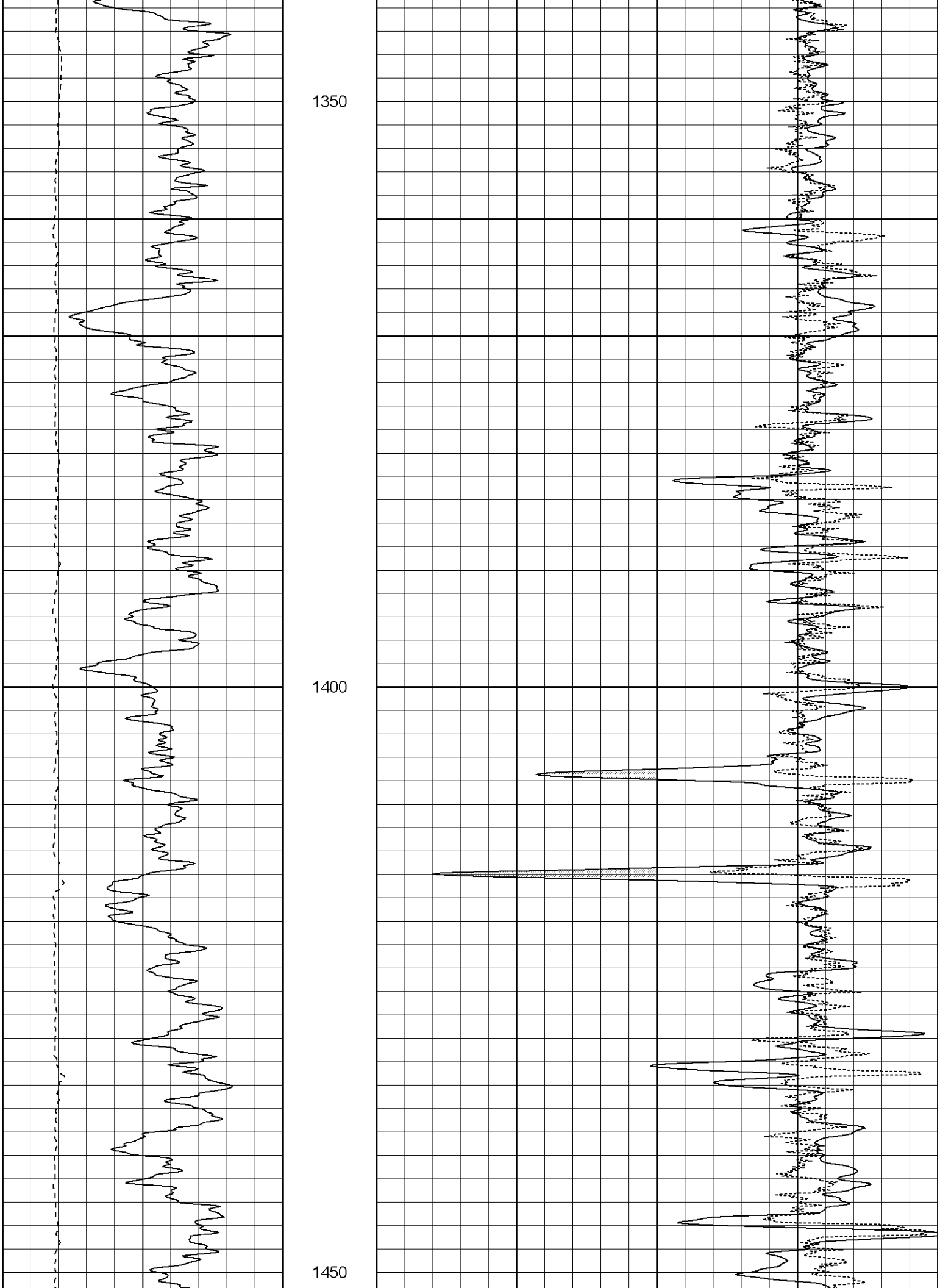
Database File:	wranglertr.db
Dataset Pathname:	pass4.2
Presentation Format:	cdlhr
Dataset Creation:	Thu Oct 20 08:09:01 2005 by Calc Warrior 7.0 STD Ope
Charted by:	Depth in Feet scaled 1:120

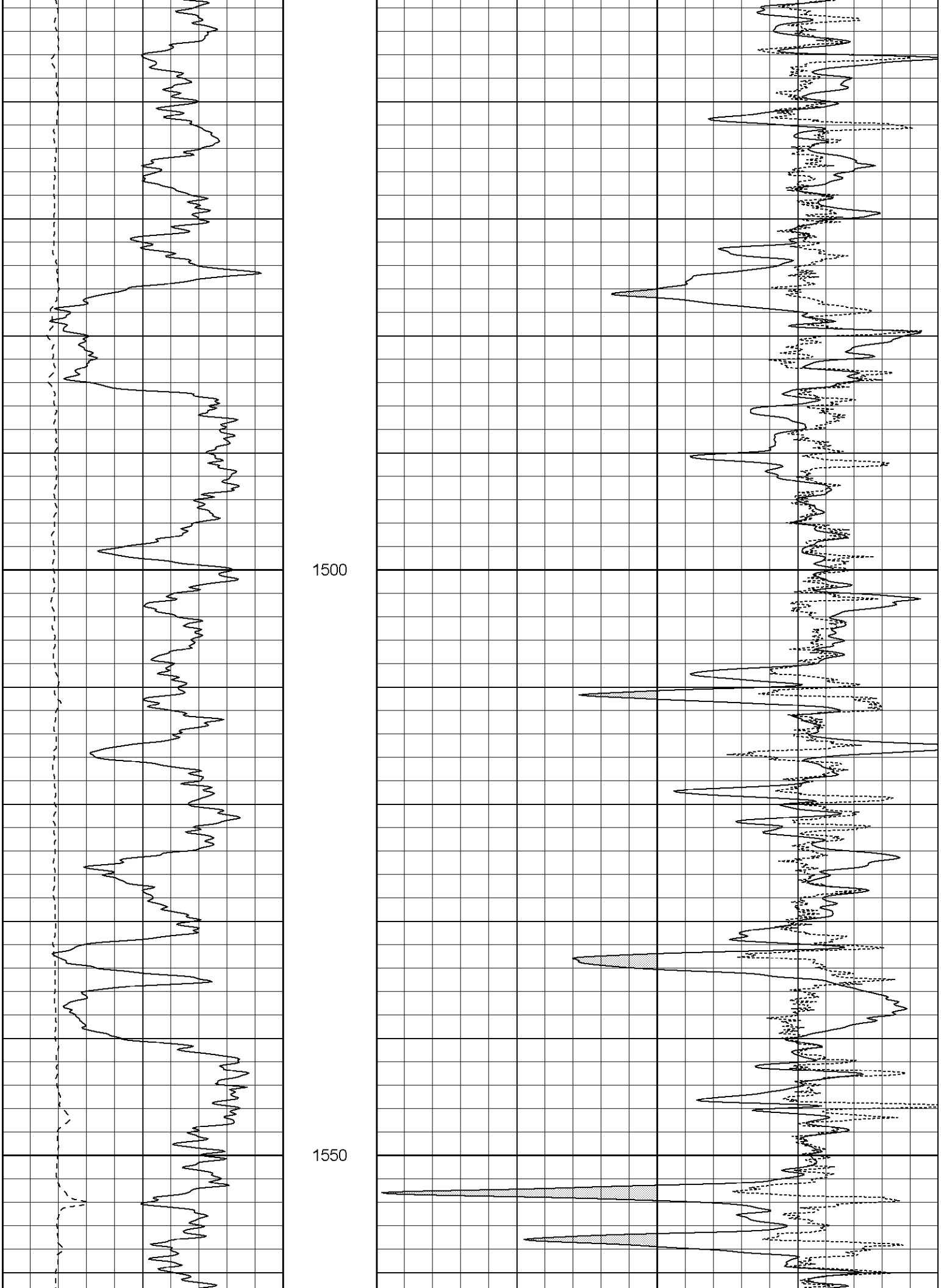


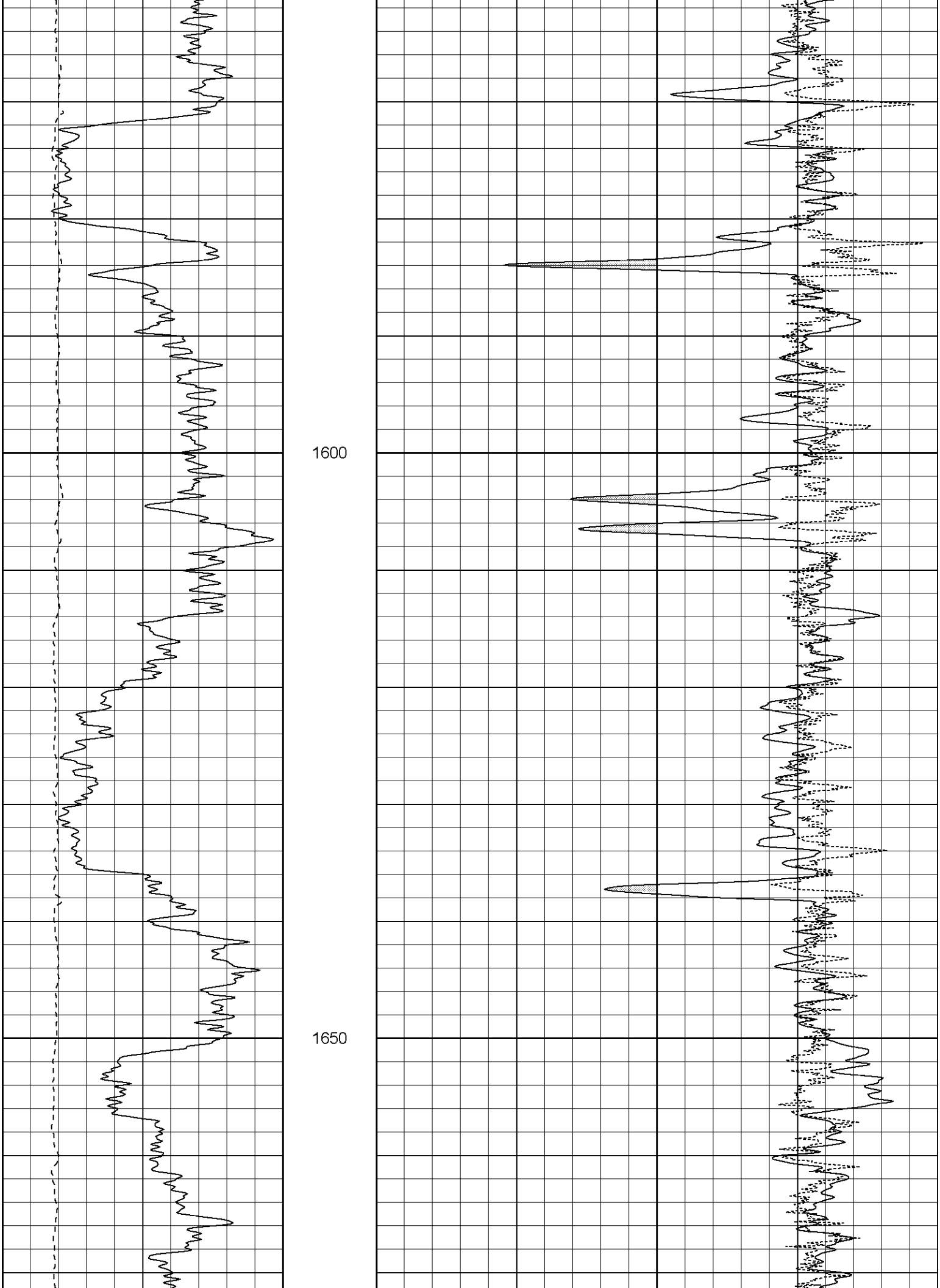

Surface Casing
1050
1100

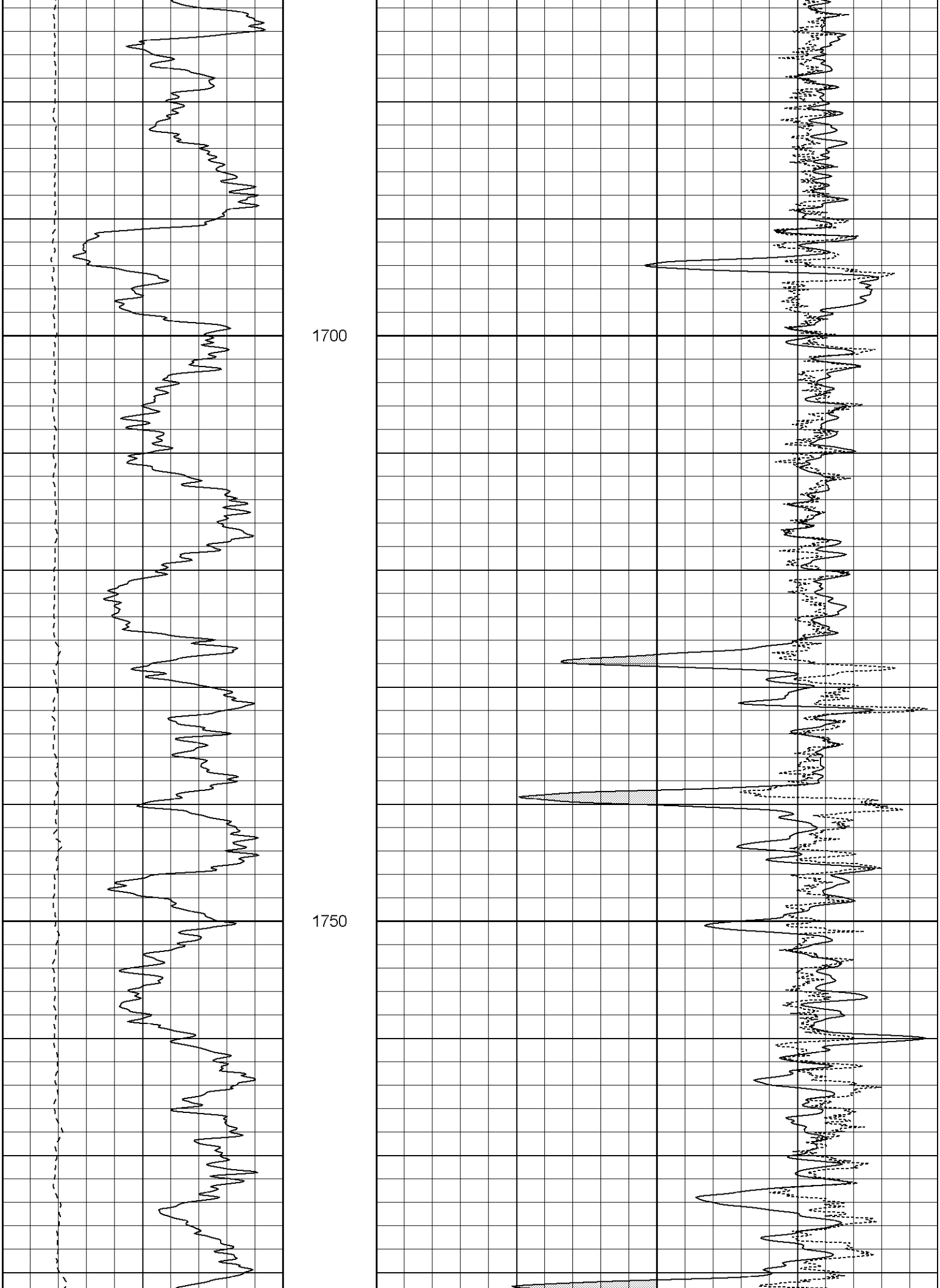

1150
1200

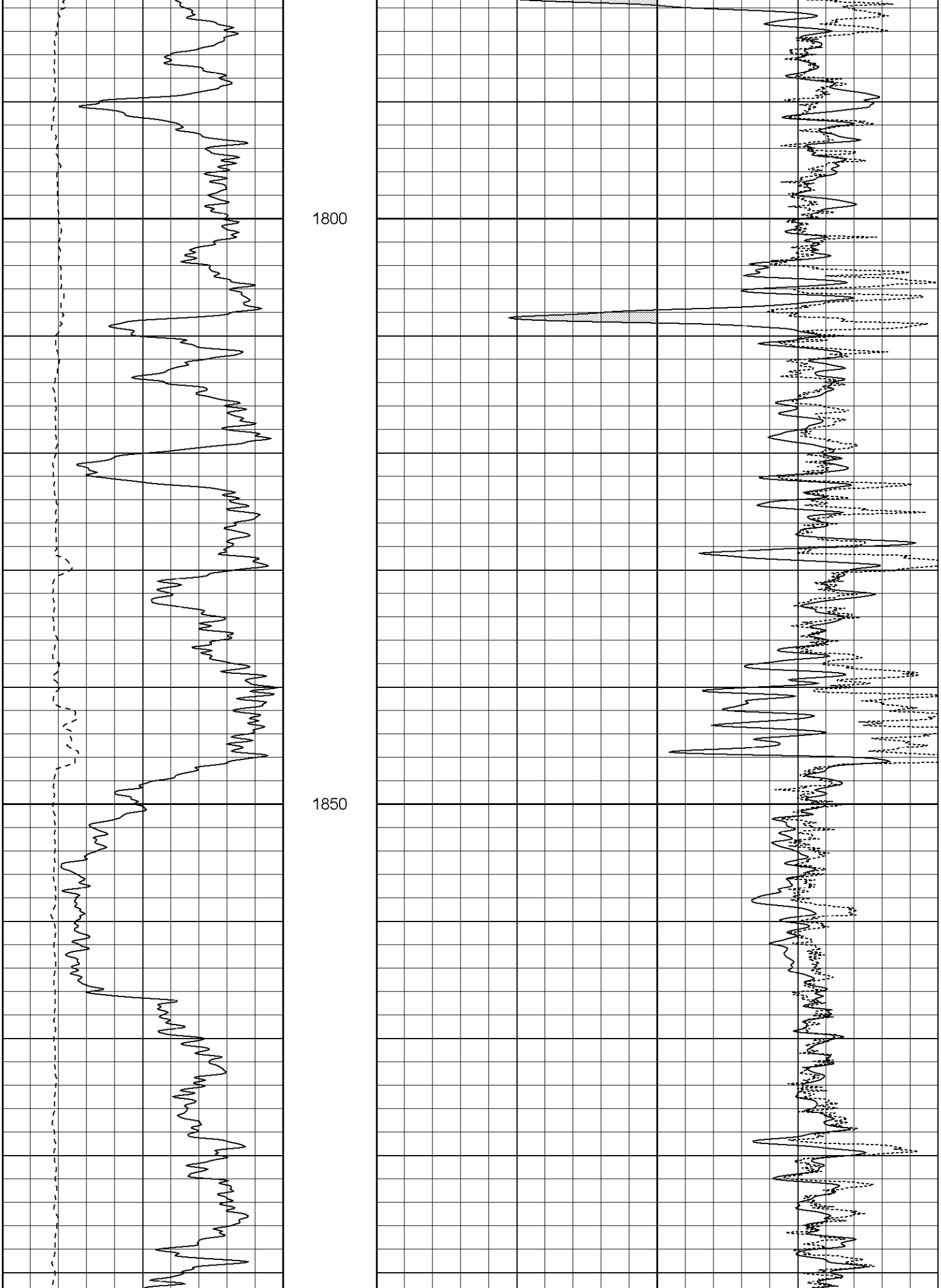

1250
1300


1350
1400
1450


1500
1550


1600
1650


1700
1750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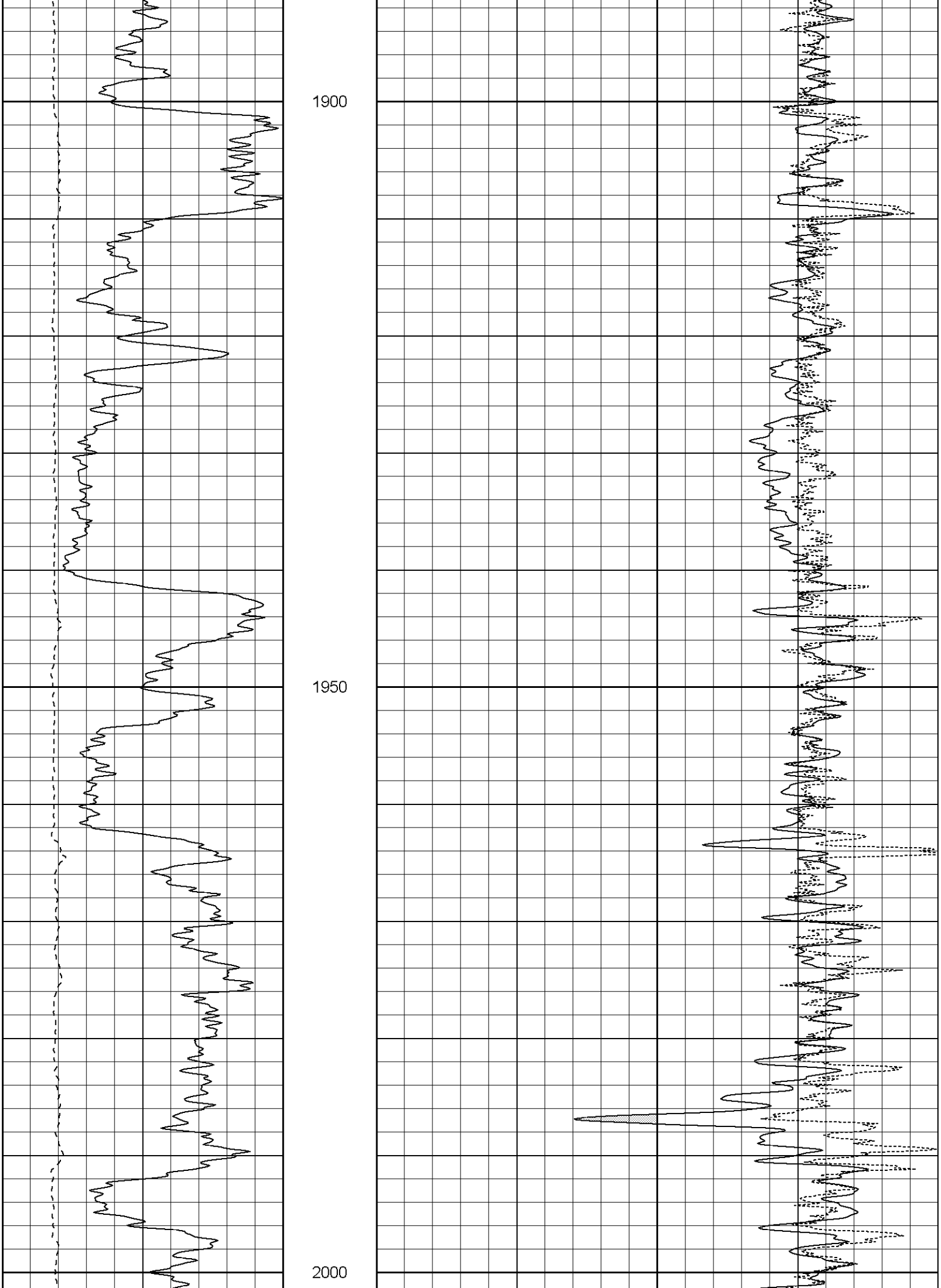
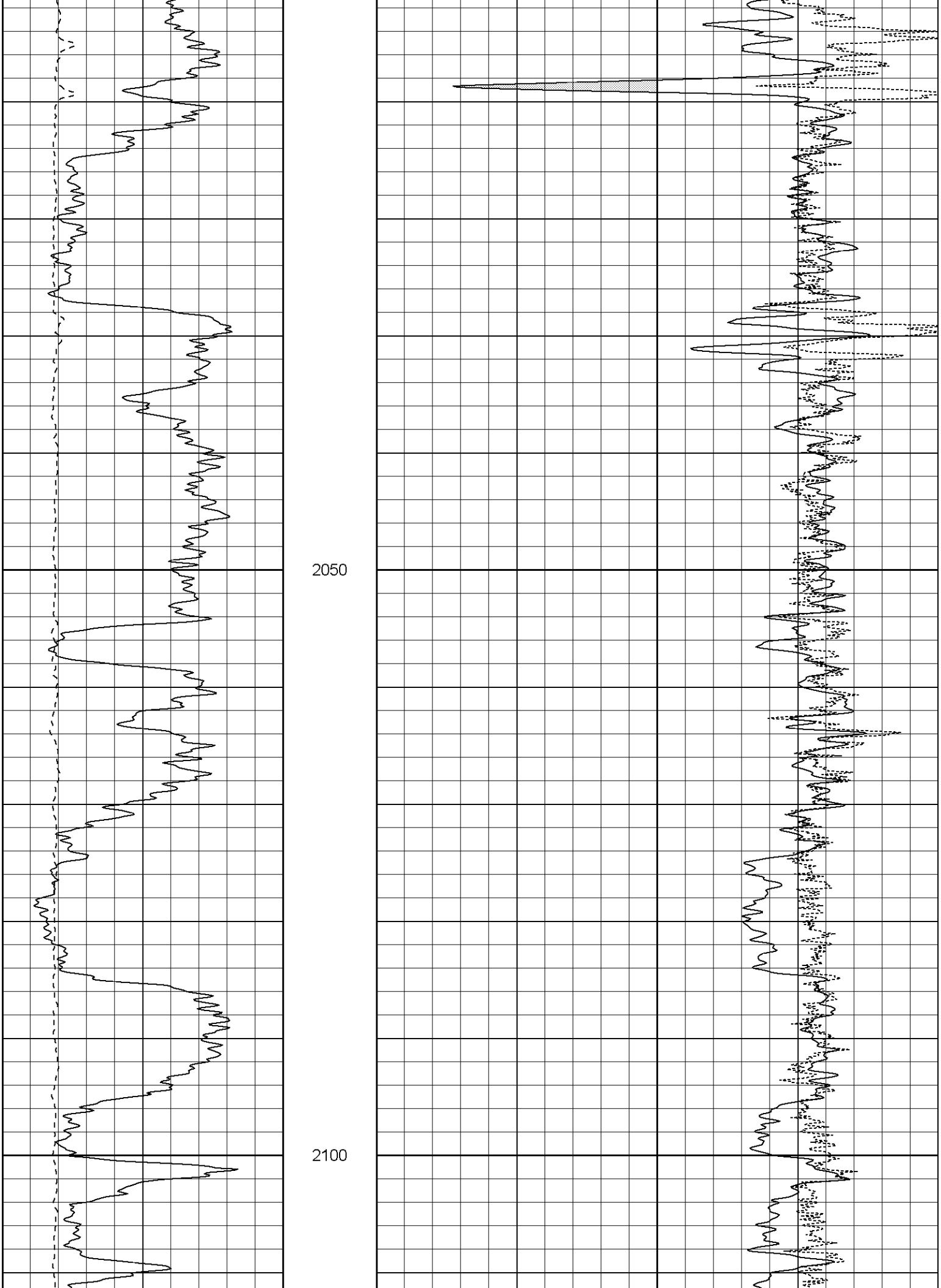

1900
1950
2000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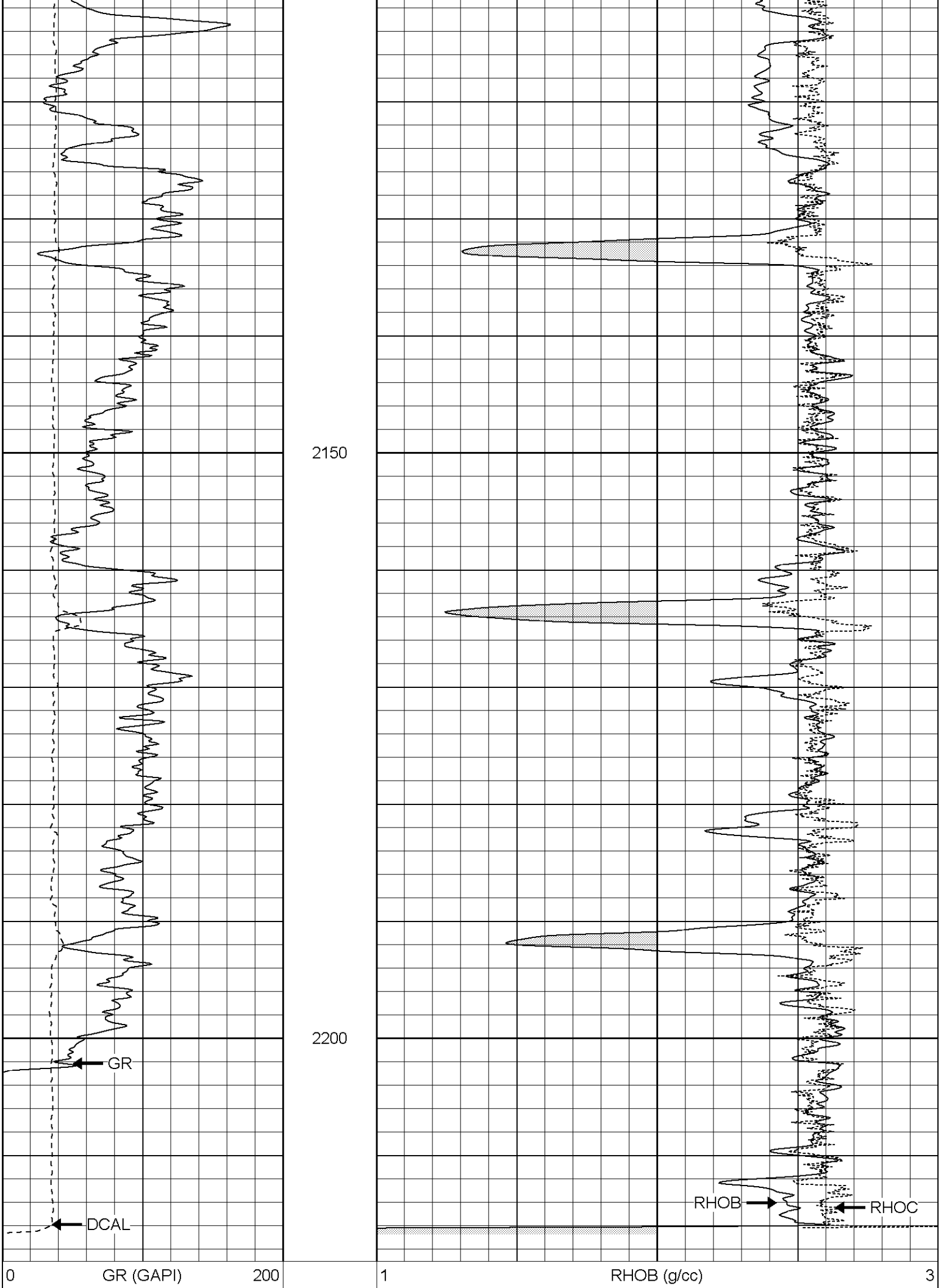
2100


2150
2200
GR
DCAL
RHOB
RHOC
0
GR (GAPI)
200
1
RHOB (g/cc)
3

6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5

Compensated Density Calibration Report

Serial-Model:	2388-G
Source / Verifier:	csv-j12 / blocks
Master Calibration Performed:	Fri Oct 14 08:56:27 2005

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	845.17	475.81	cps
Aluminum	2.590	g/cc	193.44	333.27	cps

Spine Angle = 76.43 Density/Spine Ratio = 0.580

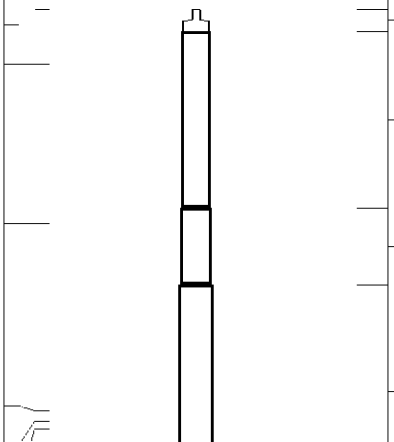
	Size		Reading	
Small Ring	8.00	in	1.58	V
Large Ring	14.00	in	4.71	V

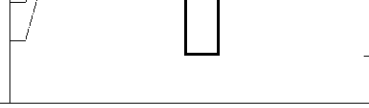
Gamma Ray Calibration Report

Serial Number:	2388OH	
Tool Model:	D	
Performed:	Sat Oct 15 02:24:59 2005	
Calibrator Value:	170.0	GAPI
Background Reading:	55.0	cps
Calibrator Reading:	201.0	cps
Sensitivity:	0.6000	GAPI/cps

Neutron Calibration Report

Serial Number:	5138	
Tool Model:	G	
Performed:	Fri Oct 14 08:57:15 2005	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	15.92		None	0.75	1.50	5.00
NEU	14.12		NEU-G (5138) Gearhart Epithermal	5.75	3.50	85.00
GR	8.92		GR-D (2388OH) Gearhart	2.50	3.63	74.00
LSD	2.83		CDL-G (2388) Gearhart	6.92	4.00	201.00
DCAL	2.50					

DCAL SSD	2.50 2.25					

Dataset:	/field/well/run1/_plots_/_jobs_/cdl
Total Length:	15.92 ft
Total Weight:	365.00 lb
O.D.	4.00 in