

**MICRO
LOG**



Company CROSS BAR ENERGY, LLC.
Well BURKETT "E" #53
Field BURKETT
County GREENWOOD State KANSAS

Location: API # :
732' FSL & 330' FWL
SEC 23 TWP 23S RGE 10E
Permanent Datum GROUND LEVEL Elevation 1394
Log Measured From KELLY BUSHING 5.5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services CDL/CNL/PE DIL/SON
Elevation K.B: 1399.5
D.F: 1397.5
G.L: 1394

Date	9/16/19
Run Number	TWO
Depth Driller	2419
Depth Logger	2418
Bottom Logged Interval	2400
Top Log Interval	800
Casing Driller	8 5/8" @ 207'
Casing Logger	209'
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/34
pH / Fluid Loss	9.5/9.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.45 @ 88F
Rmf @ Meas. Temp	1.08 @ 88F
Rmc @ Meas. Temp	1.74 @ 88F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	1.25 @ 102F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	102F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	STUART WOODIE
	ALBERT BRENSING

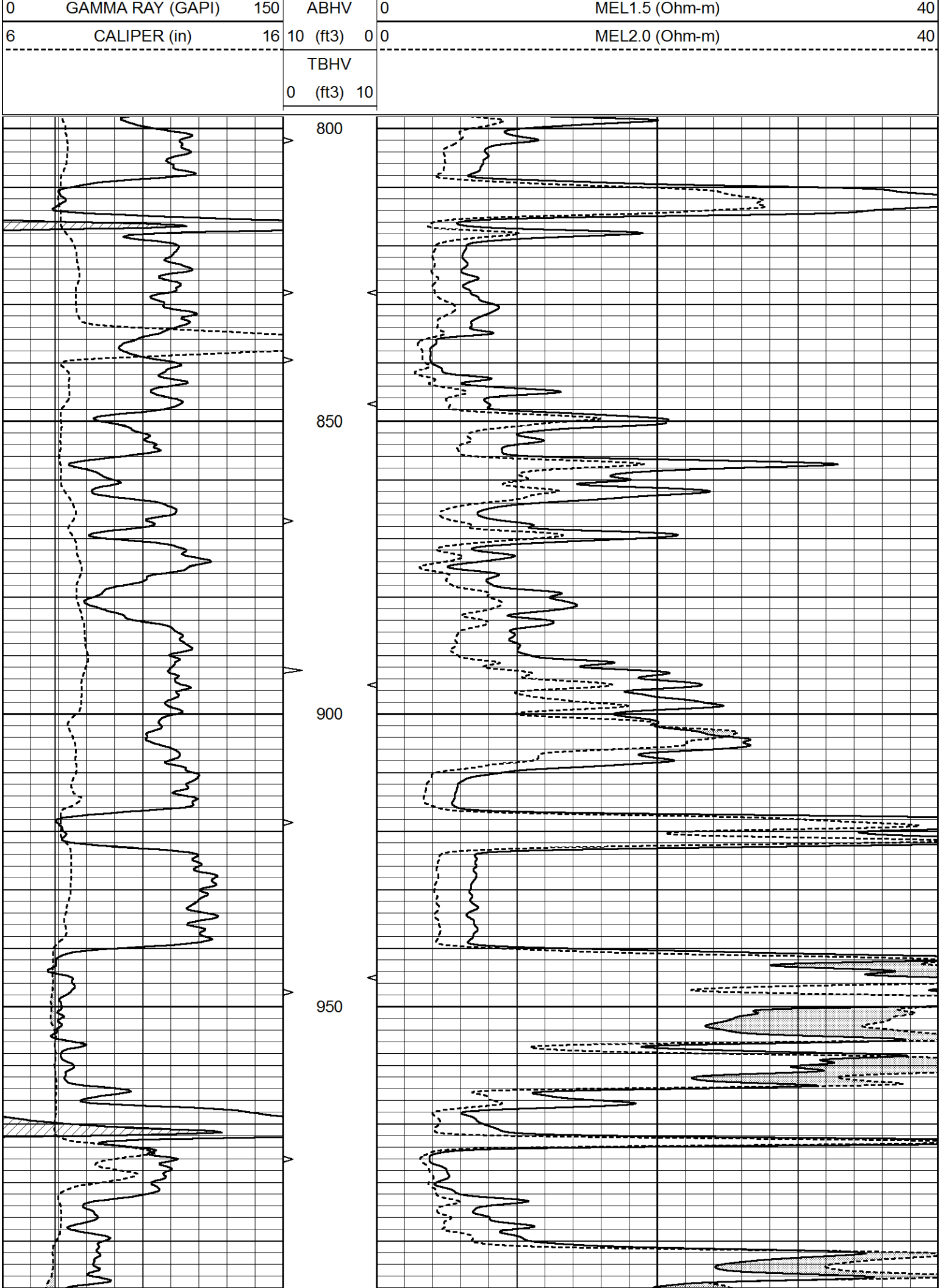
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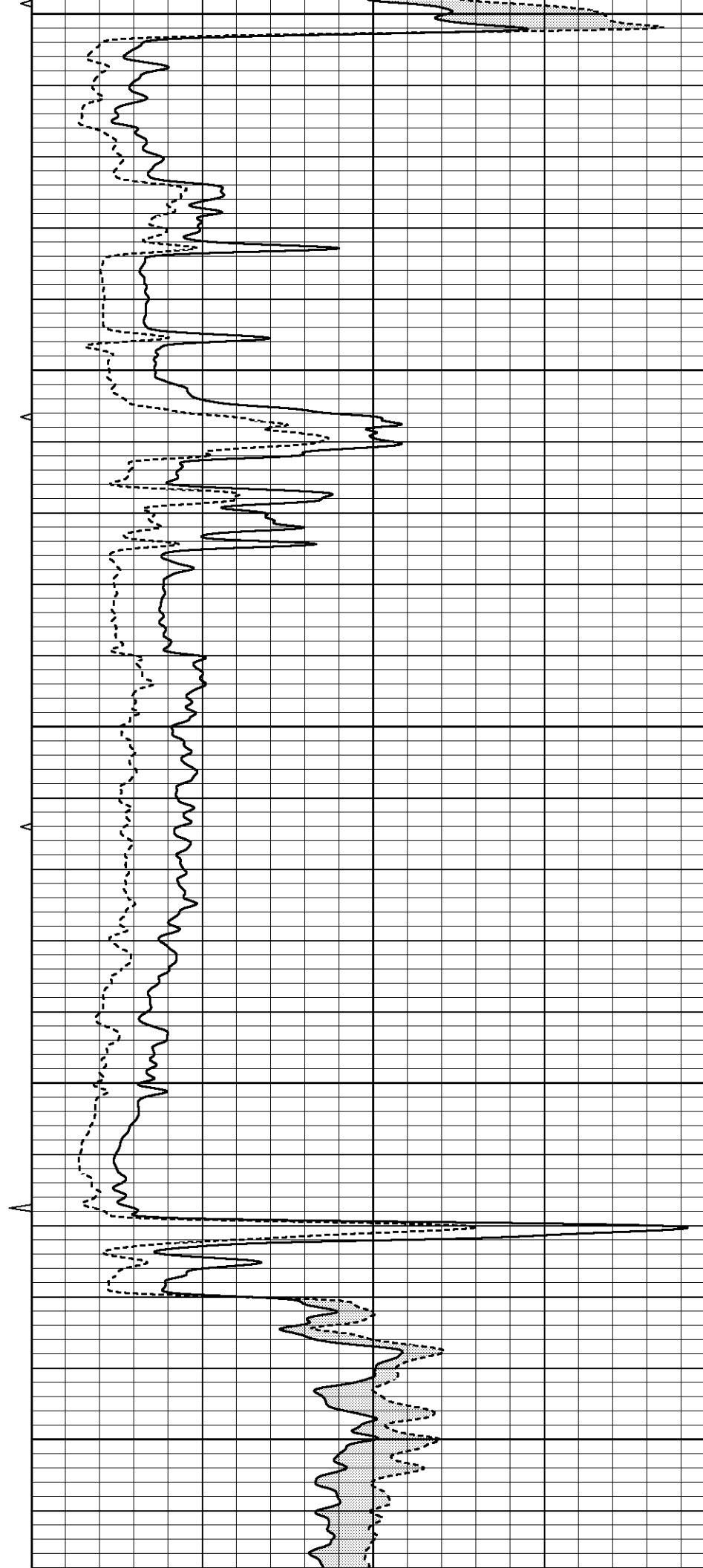
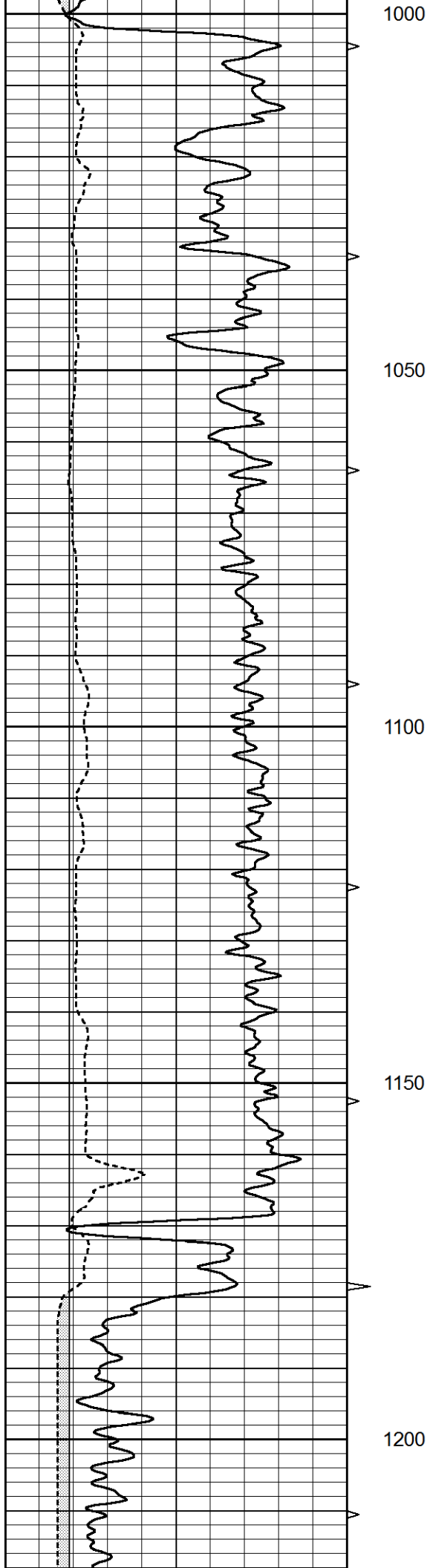
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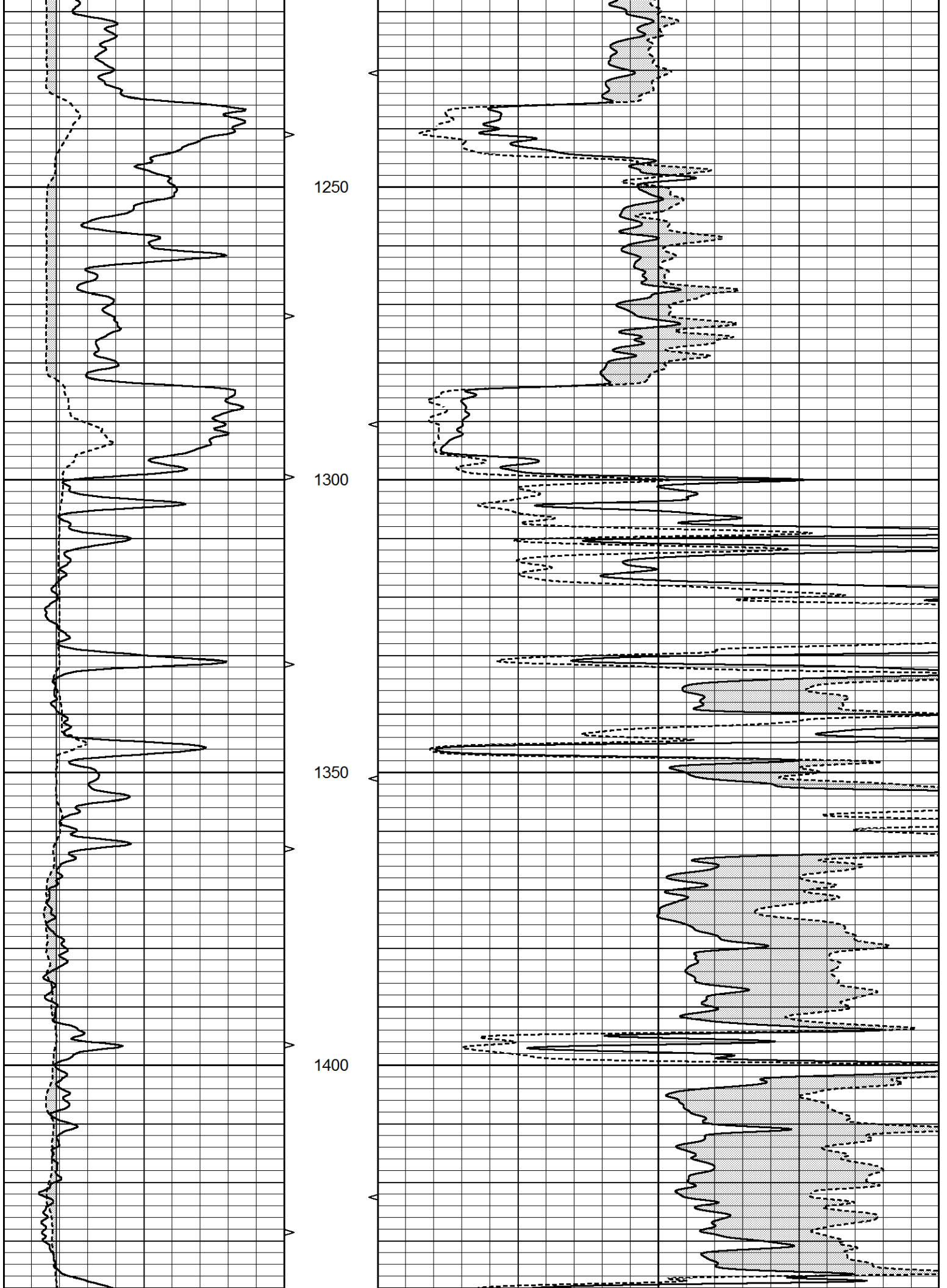
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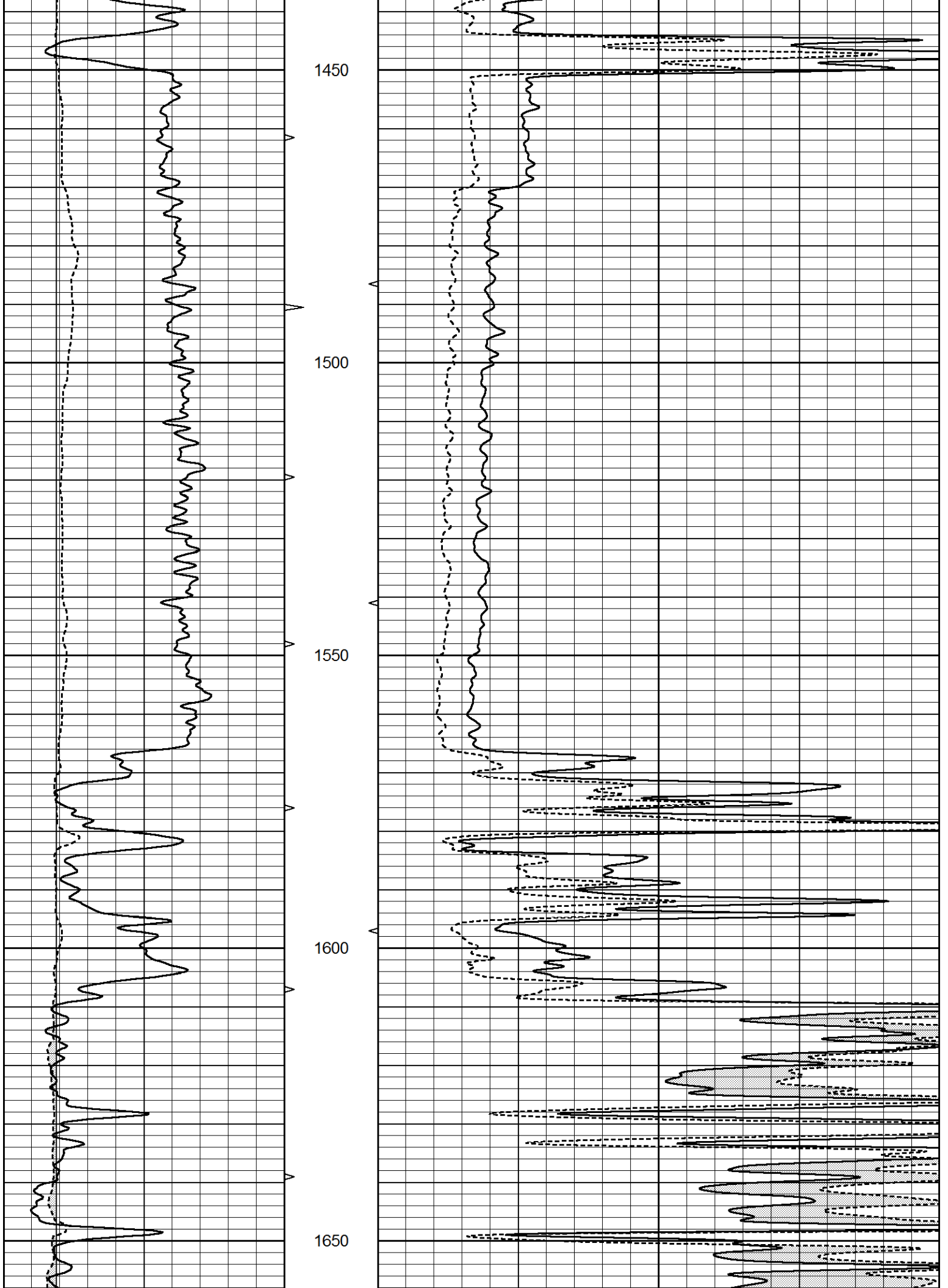
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
CASSODAY, KS. - EAST TO GREENWOOD COUNTY LINE
STAY EAST TO Q RD. - 1 SOUTH TO 290TH RD - WEST ACROSS LOW
WATER BRIDGE AND UP HILL - AFTER CATTLEGUARD STAY LEFT
BACK AROUND TO NORTH INTO

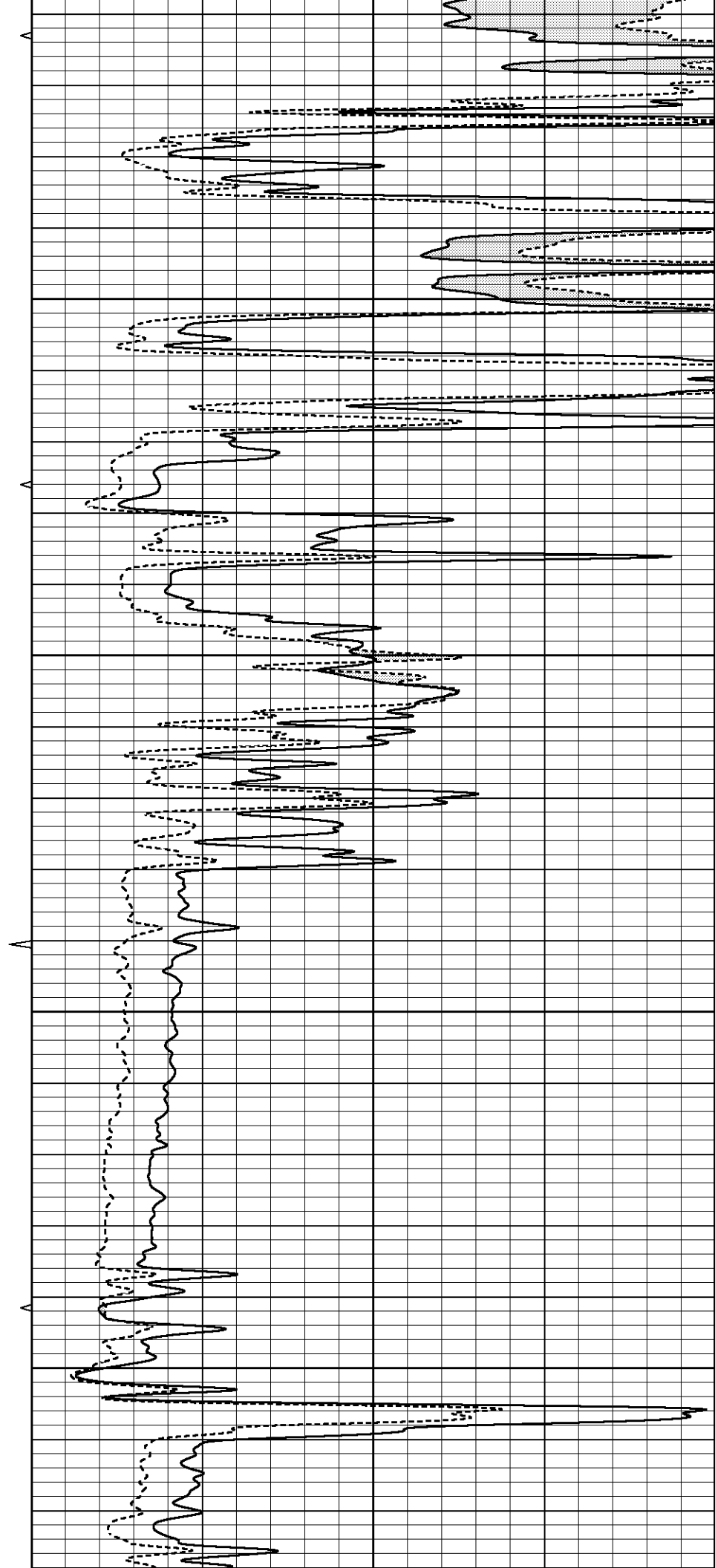
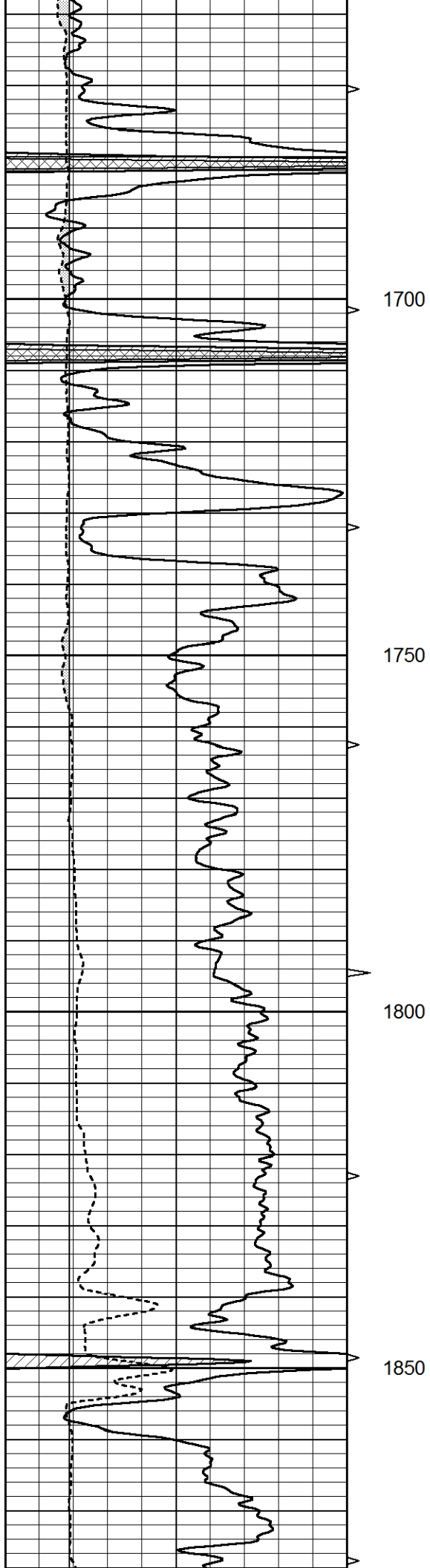
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Presentation Format _micro
Dataset Creation Mon Sep 16 16:08:49 2019
Charted by Depth in Feet scaled 1:240

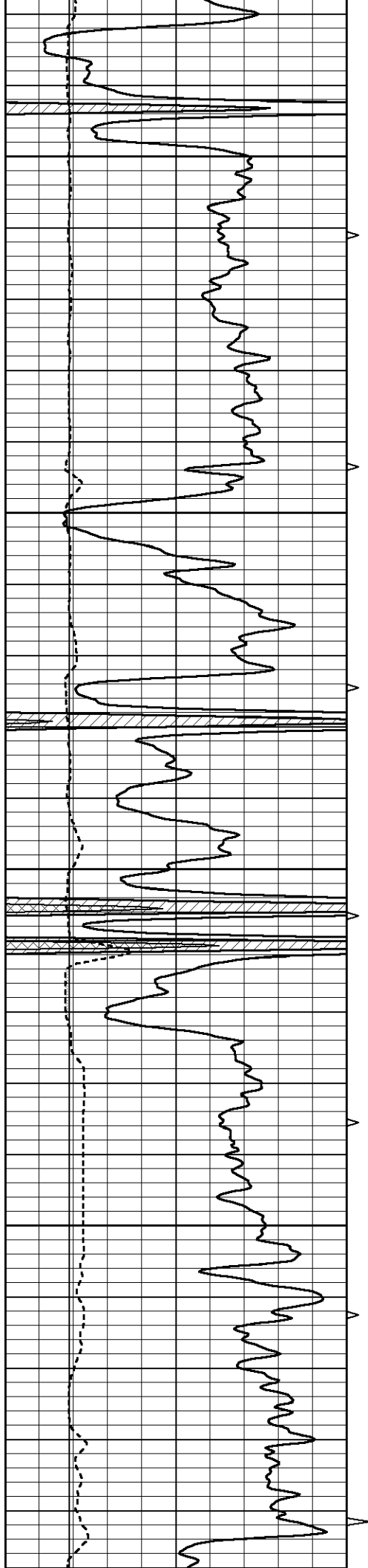










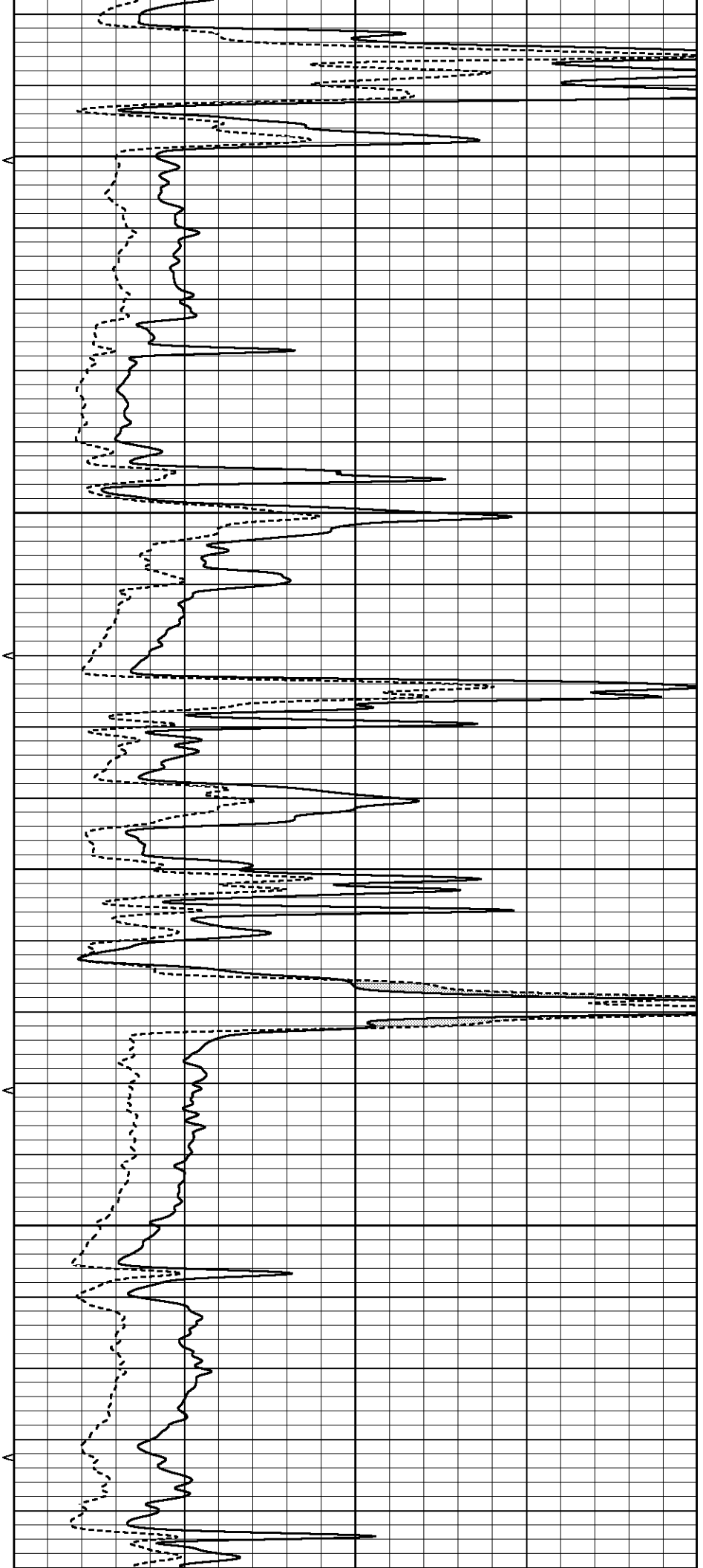


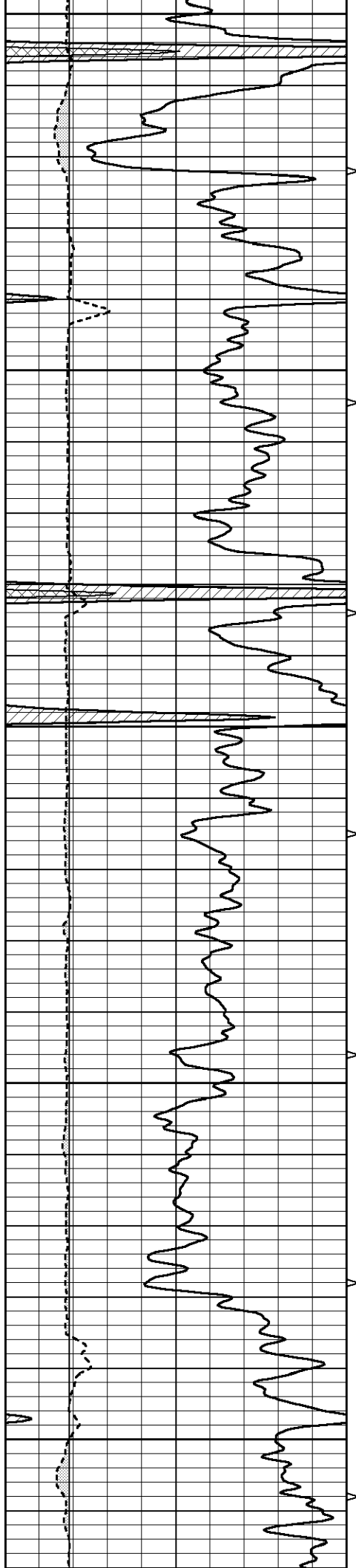
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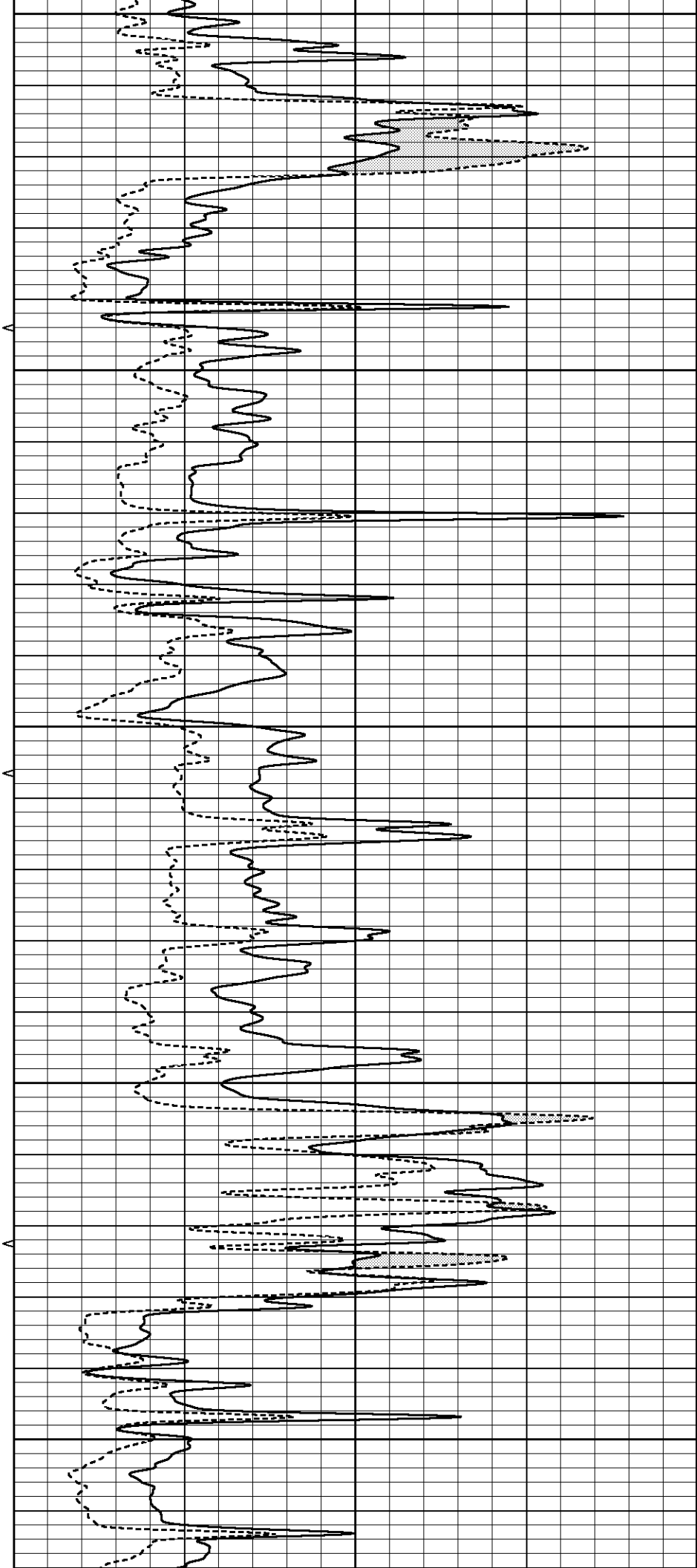
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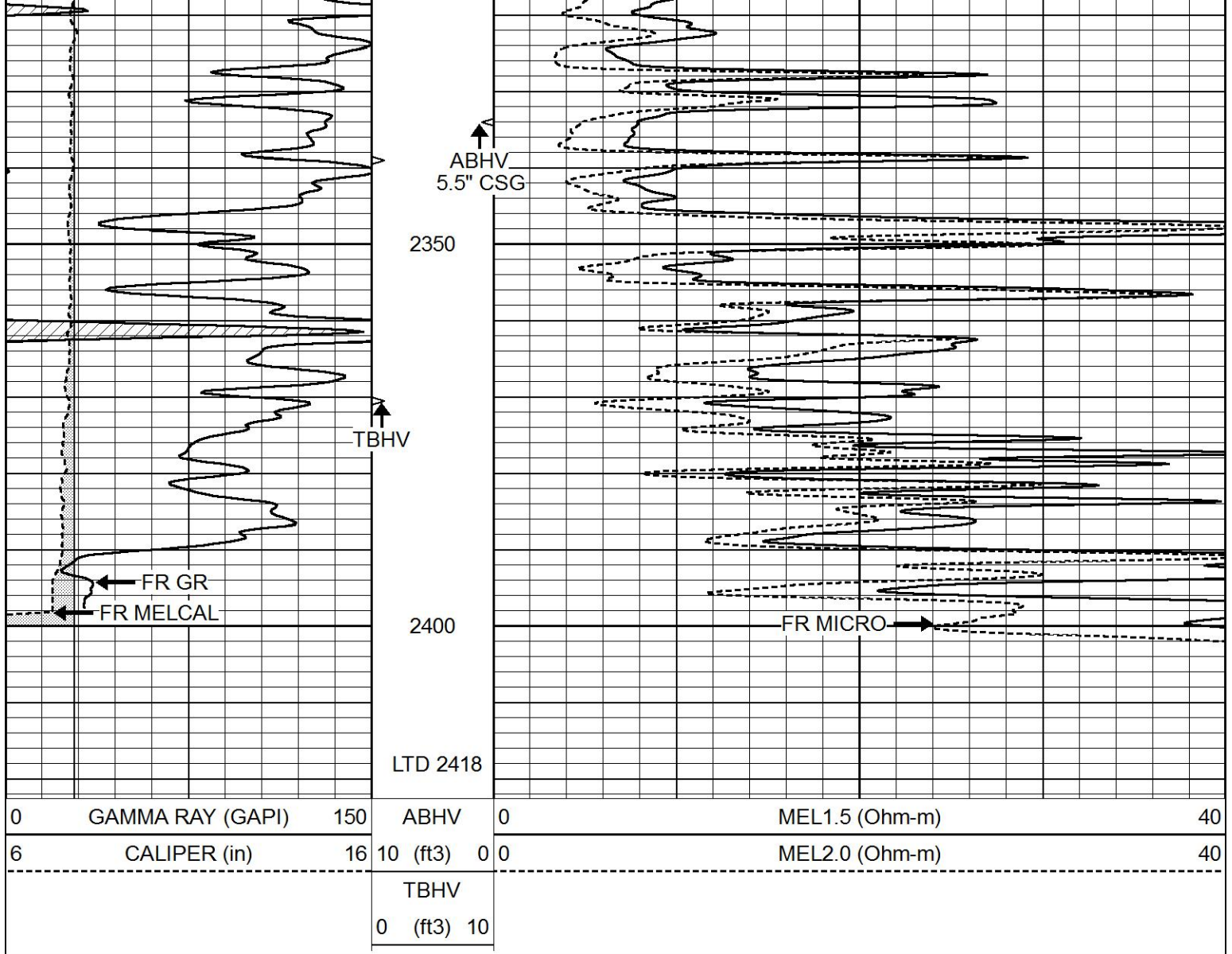
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2100
2150
2200
2250
2300

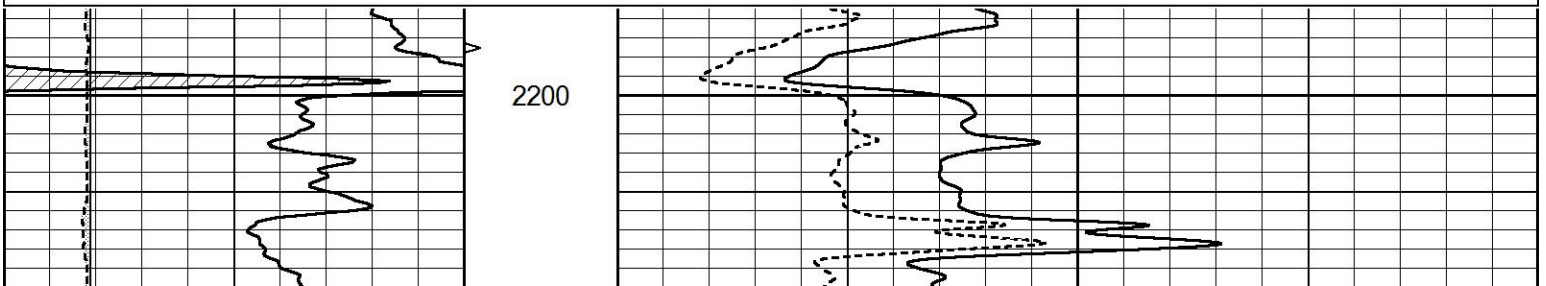


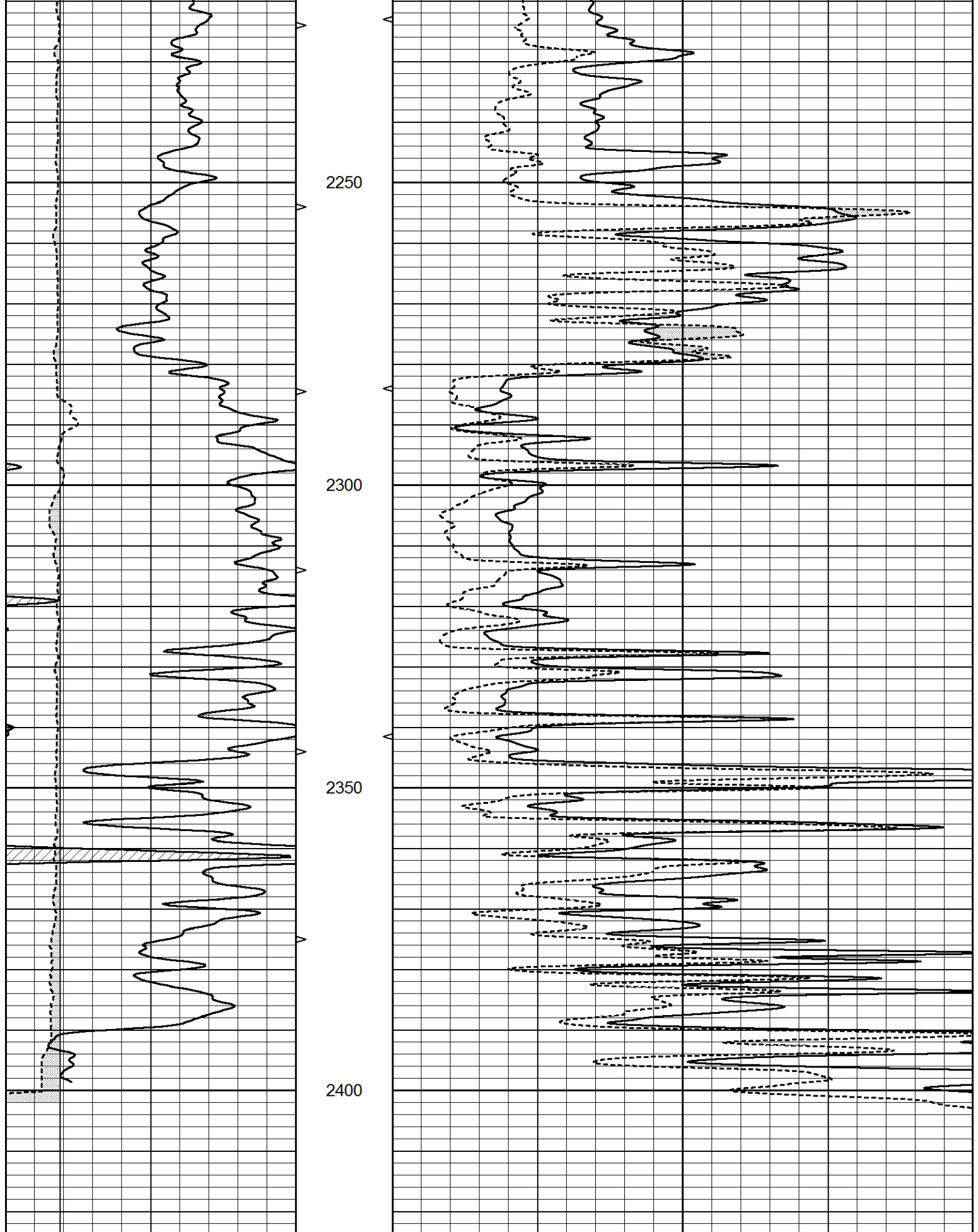


REPEAT SECTION

Database File 3993pe8.db
 Dataset Pathname pass5.1
 Presentation Format _micro
 Dataset Creation Mon Sep 16 16:12:14 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3) 0 0	0 0	MEL2.0 (Ohm-m)	40
			TBHV			
			0 (ft3) 10			





0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
---	------------------	-----	------	---	----------------	----

6	CALIPER (in)	16	10 (ft3)	0 0	MEL2.0 (Ohm-m)	40
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			TBHV			
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Calibration Report

Database File 3993pe8.db
 Dataset Pathname pass5.1
 Dataset Creation Mon Sep 16 16:12:14 2019

MICRO_USR Calibration Report

Serial Number: 070911
 Tool Model: ProbeL
 Performed: Wed Aug 07 14:47:35 2019

Caliper Calibration: Gain=3.755 Offset=2.450
 References Low Cal High Cal
 8.000 14.000
 Readings 1.451 3.049

1.5" Calibration: Gain=37.000 Offset=-0.500
 References Low Cal High Cal
 0.000 20.000
 Readings 0.004 0.843

2" Calibration: Gain=45.000 Offset=-0.650
 References Low Cal High Cal
 0.000 20.000
 Readings 0.021 0.810

Microlog Calibration Report

Serial-Model: 070911-ProbeL
 Performed: Sat Apr 11 01:13:01 2015

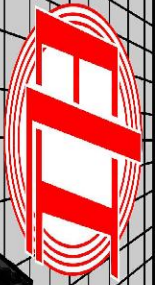
	Readings		V	References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0002	0.4836	V	0.0000	10.0000	Ohm-m	20.6908	-0.0051
Inverse	0.0018	0.6297	V	0.0000	10.0000	Ohm-m	15.9263	-0.0282
Caliper	0.0000	1.0000	V	0.0000	1.0000	in	1.0000	0.0000

Gamma Ray Calibration Report

Serial Number: 070558
 Tool Model: Probe1
 Performed: Mon Jan 21 19:38:56 2019

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.2500 GAPI/cps

SONIC
LOG



Company CROSS BAR ENERGY, LLC.
Well BURKETT "E" #53
Field BURKETT
County GREENWOOD State KANSAS

Location: API # :
732' FSL & 330' FWL
SEC 23 TWP 23S RGE 10E
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Other Services
CDL/CNL/PE
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Elevation
K.B. 1399.5
D.F. 1397.5
G.L. 1394

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Run Number	TWO
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Recorded By	JASON CAPPELLUCCI
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Comments

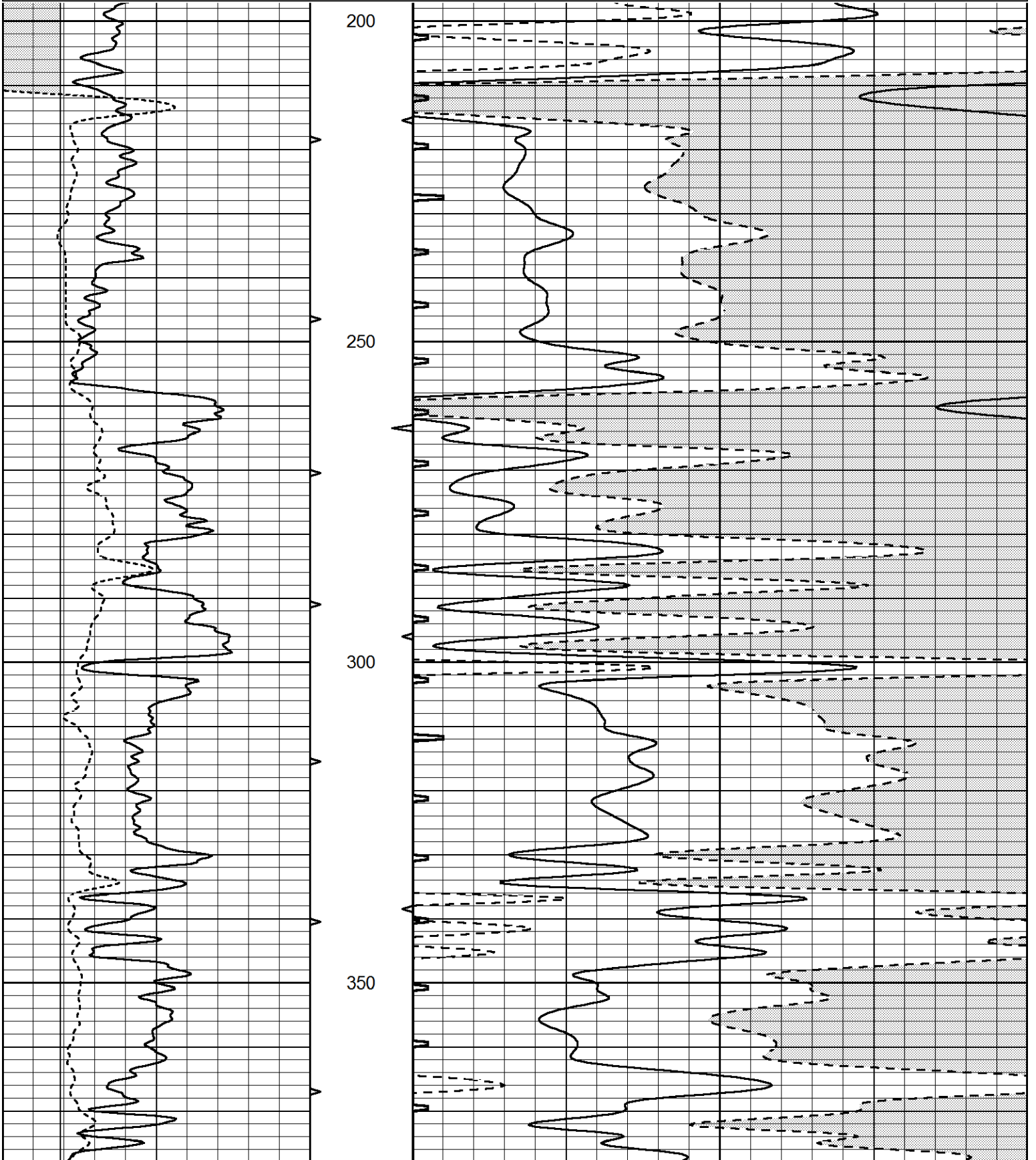
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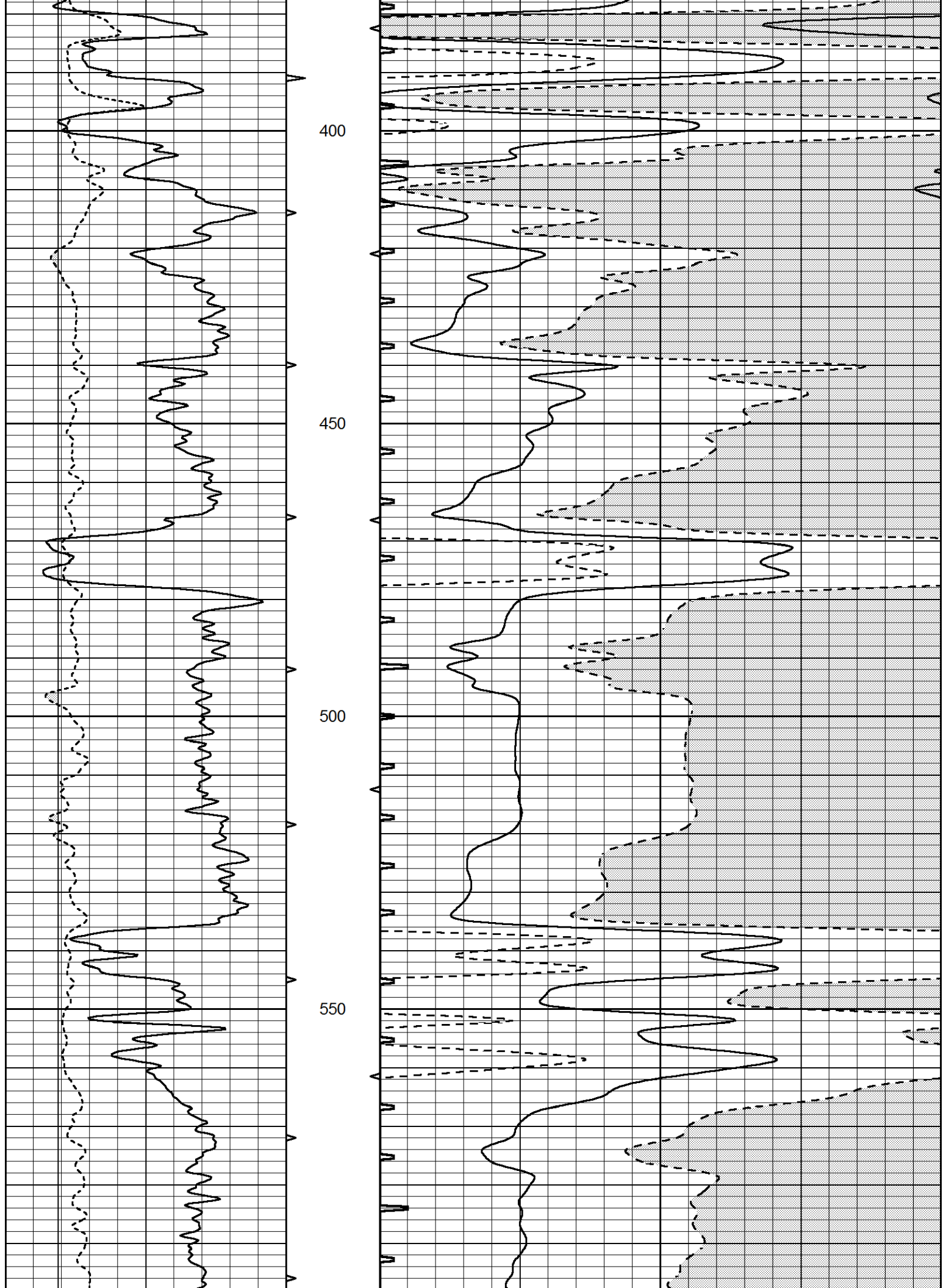


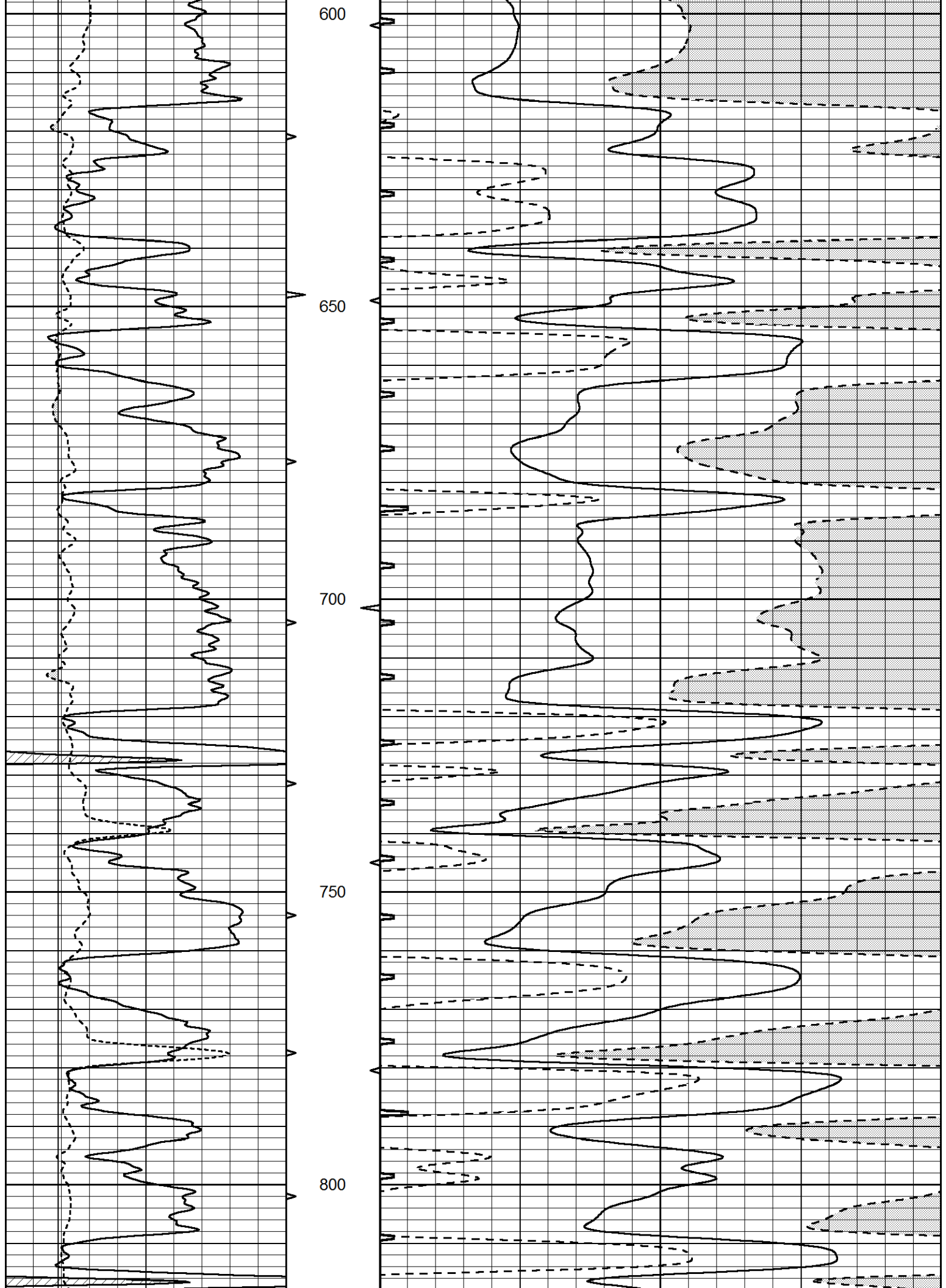
MAIN SECTION

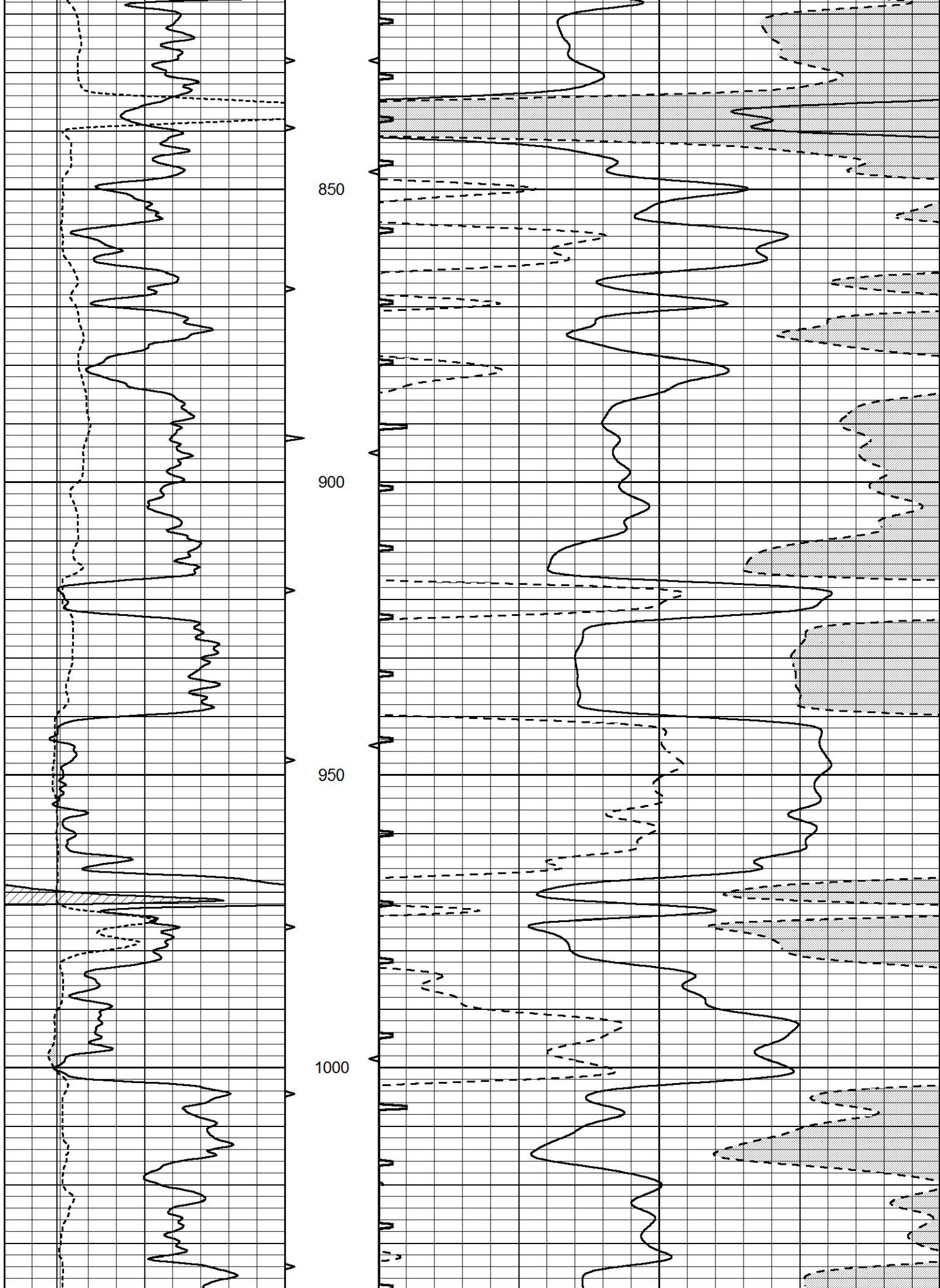
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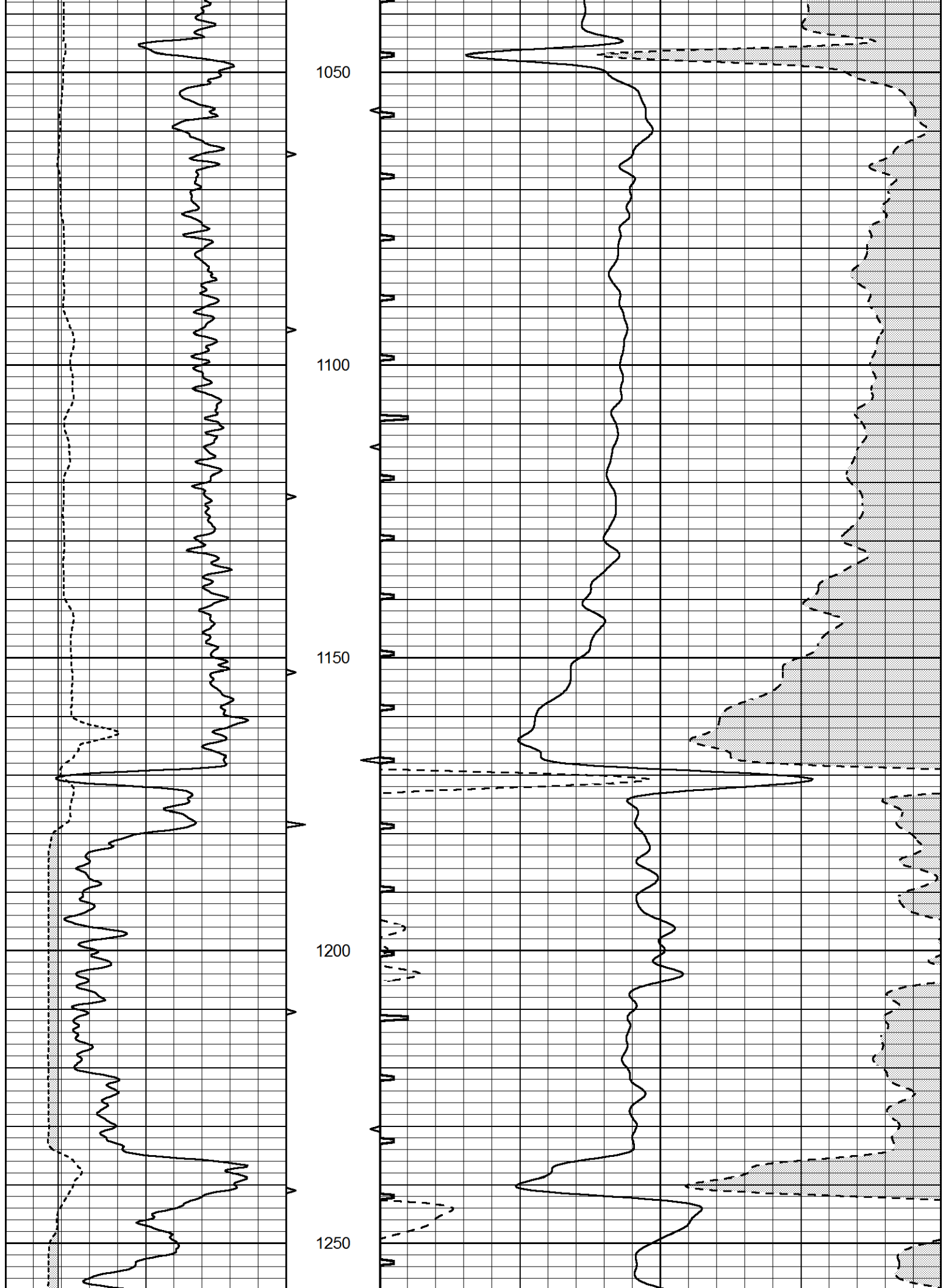
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6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)	-10
6	CALIPER (in)	16	TBHV	0	ITT (msec)	20	
			0 (ft3)	10			

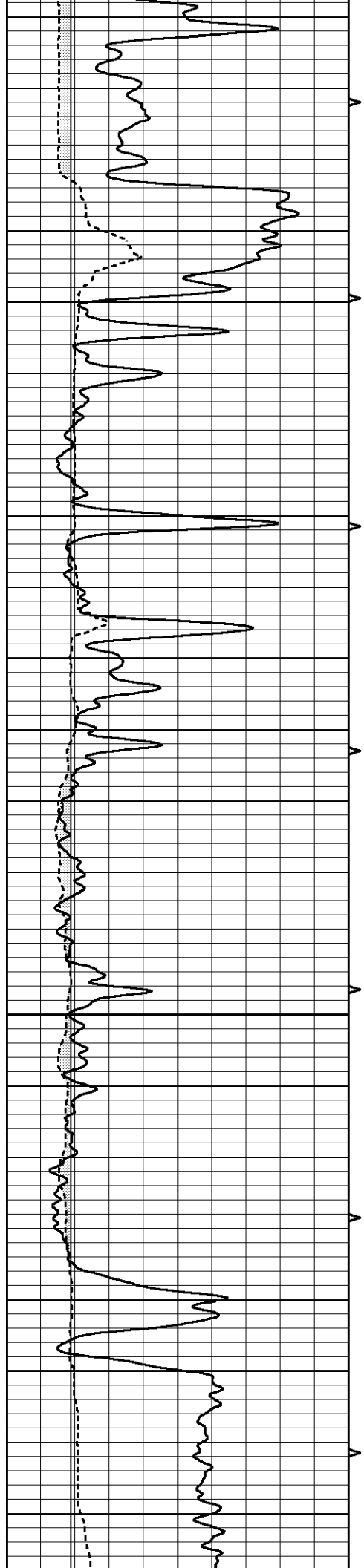










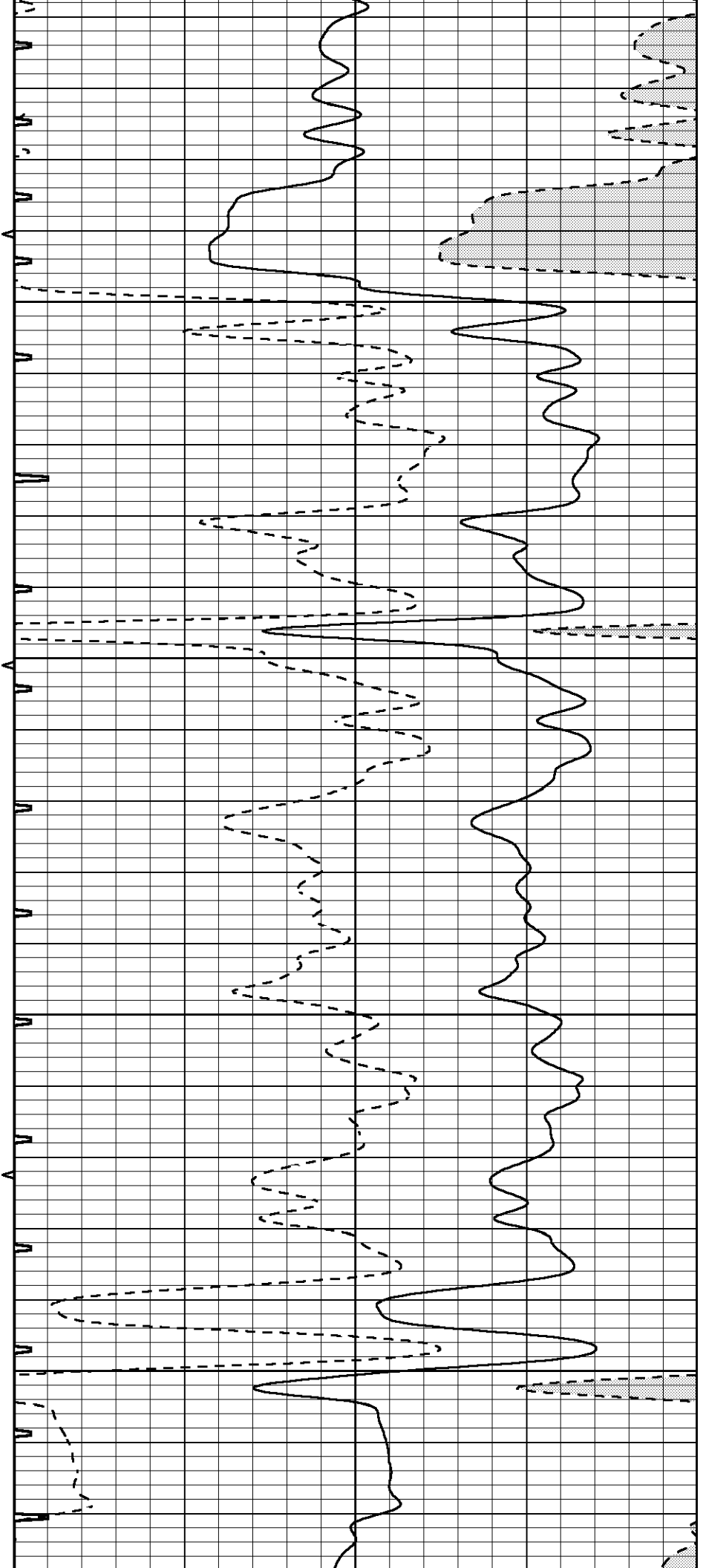


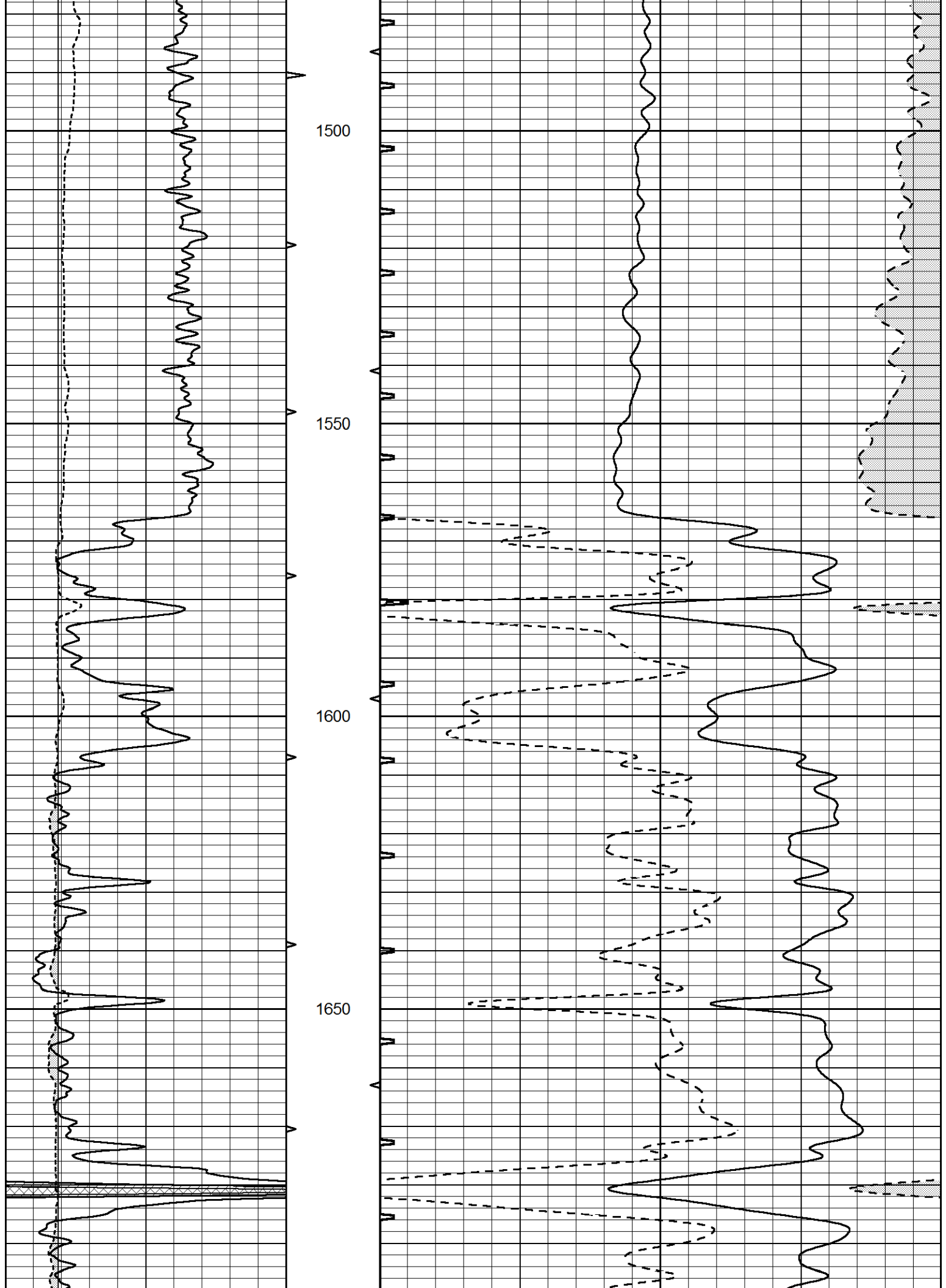
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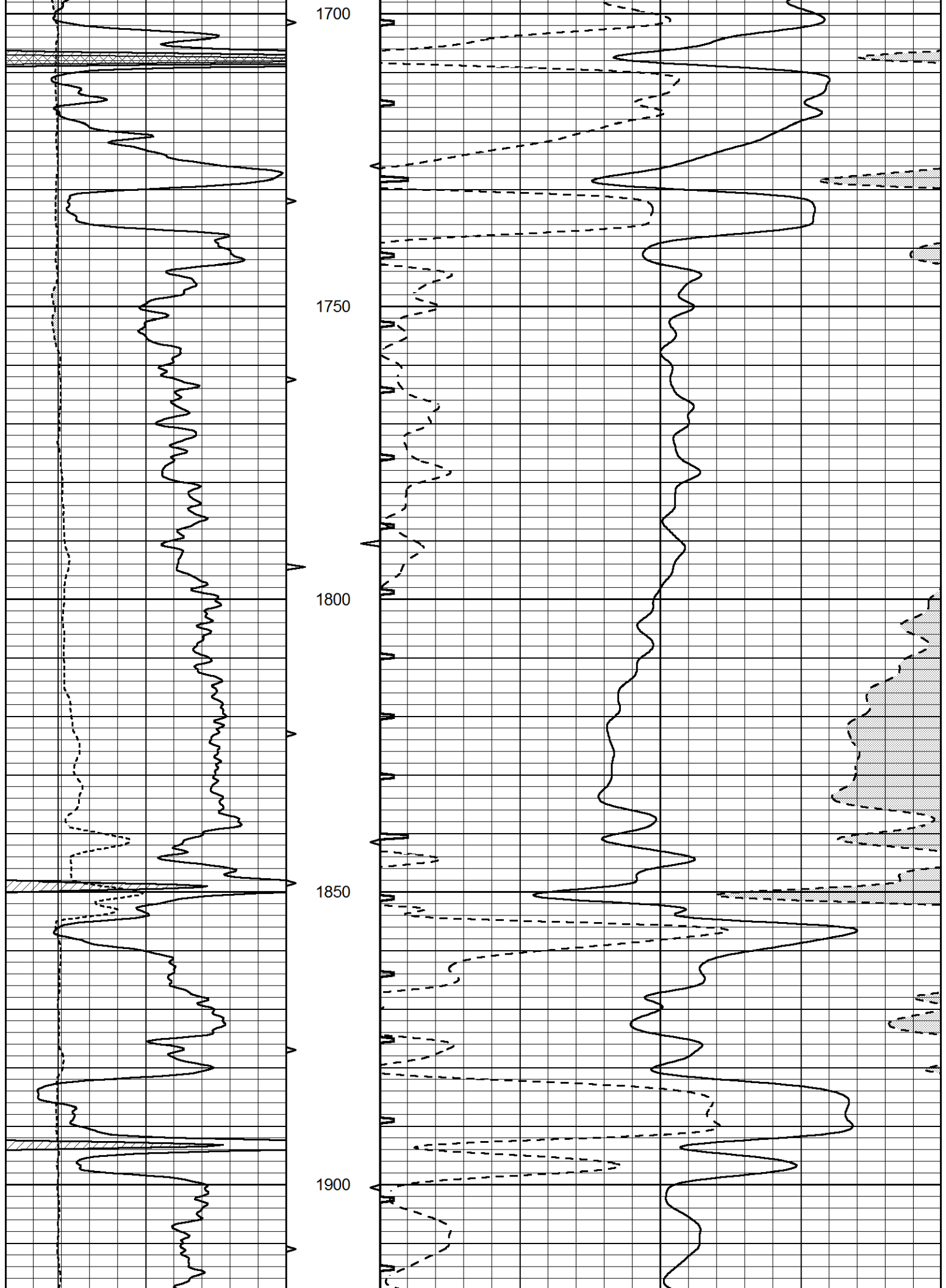
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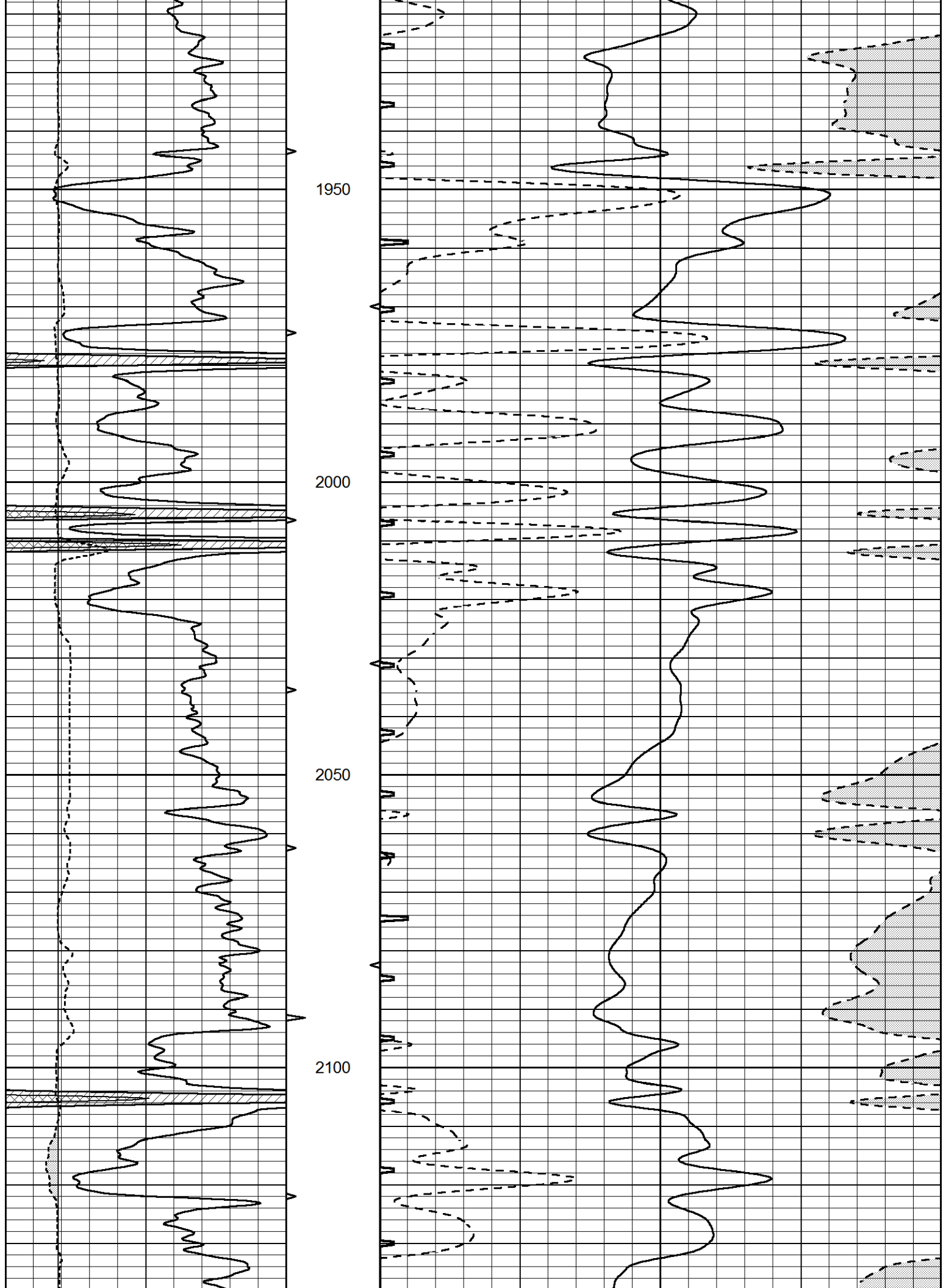
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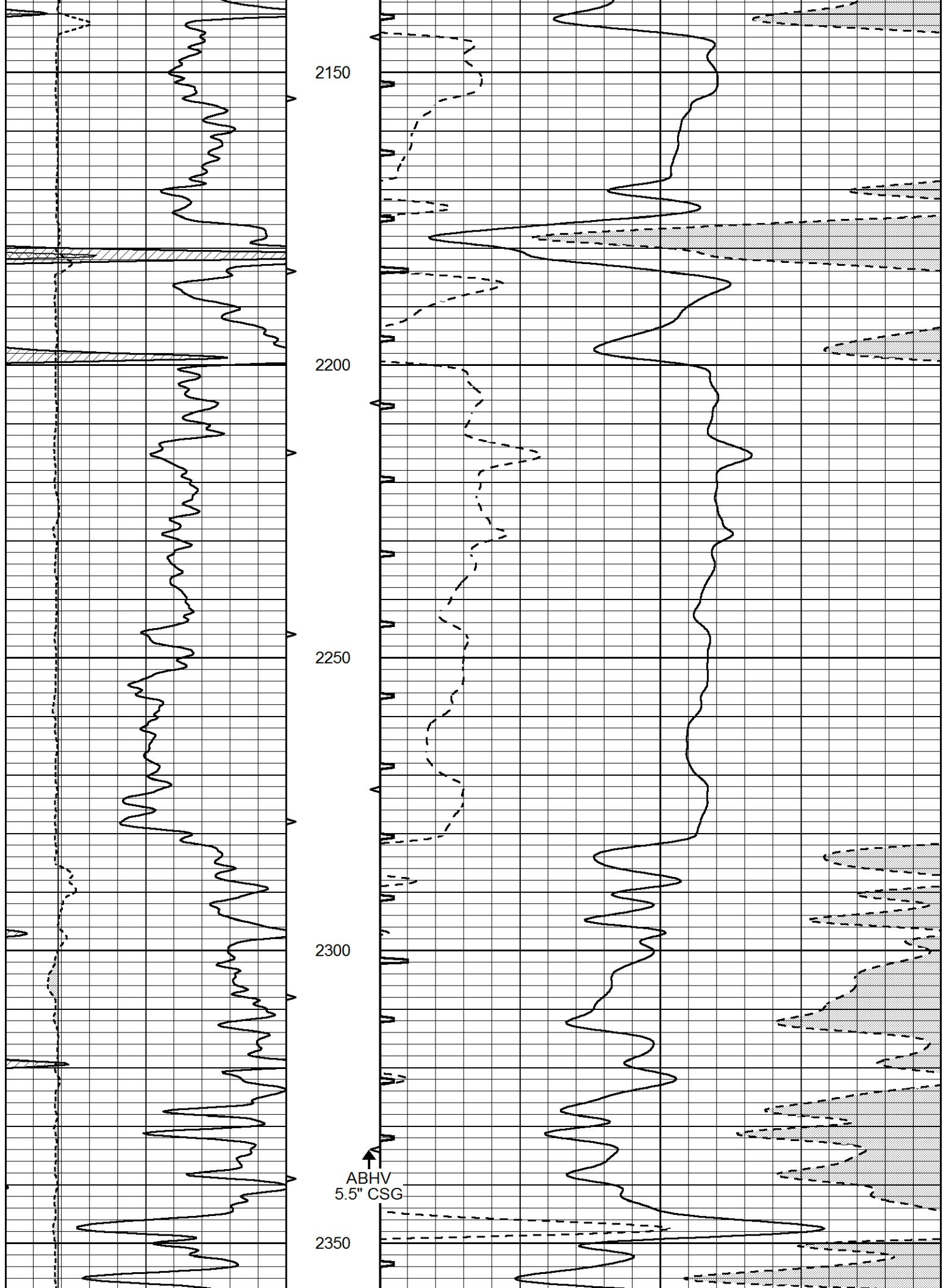
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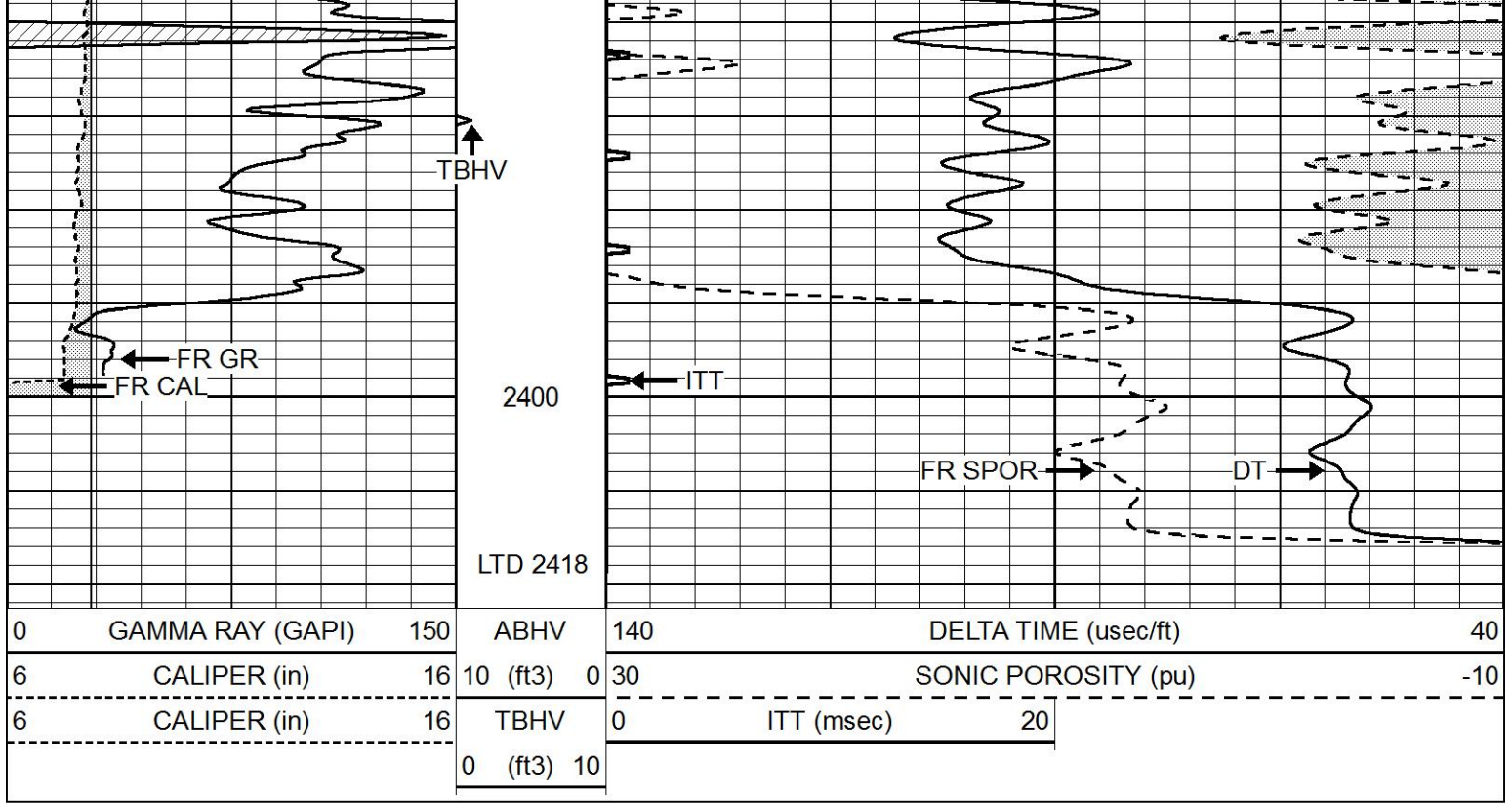








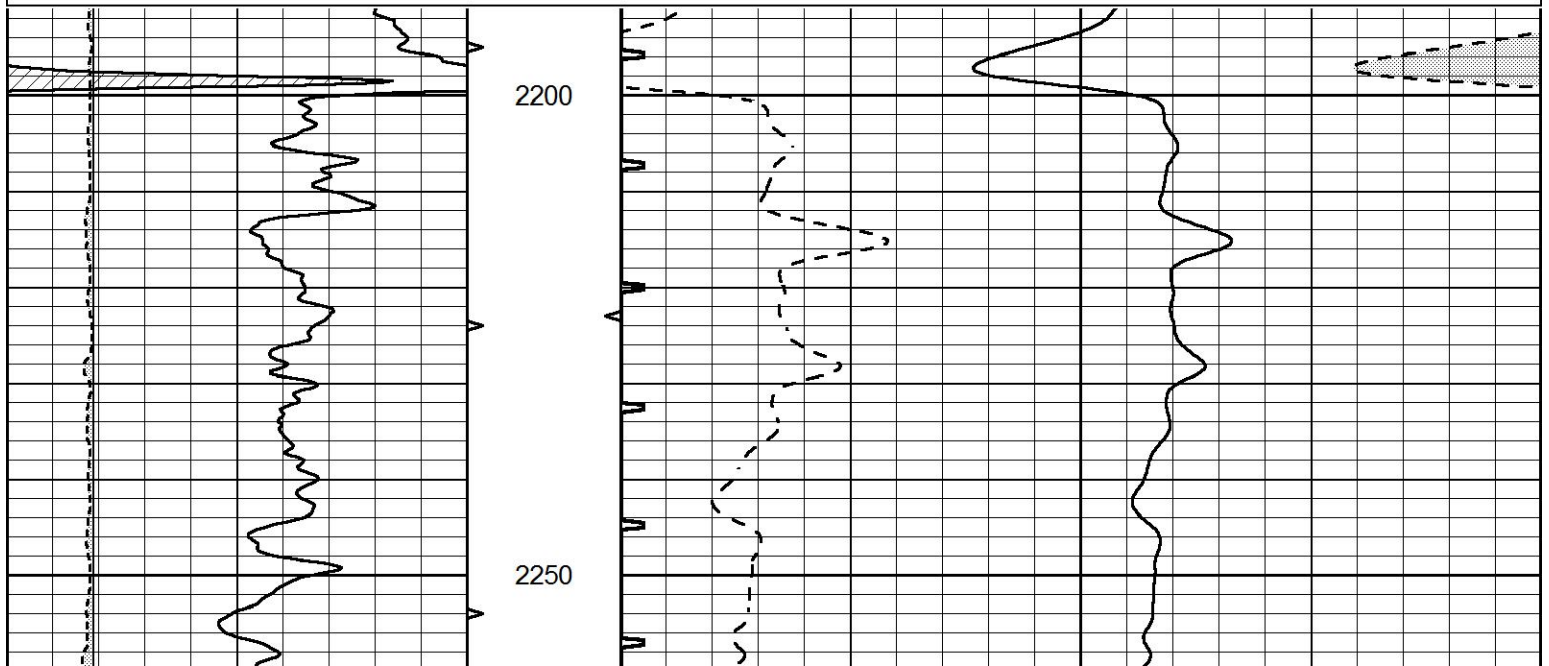


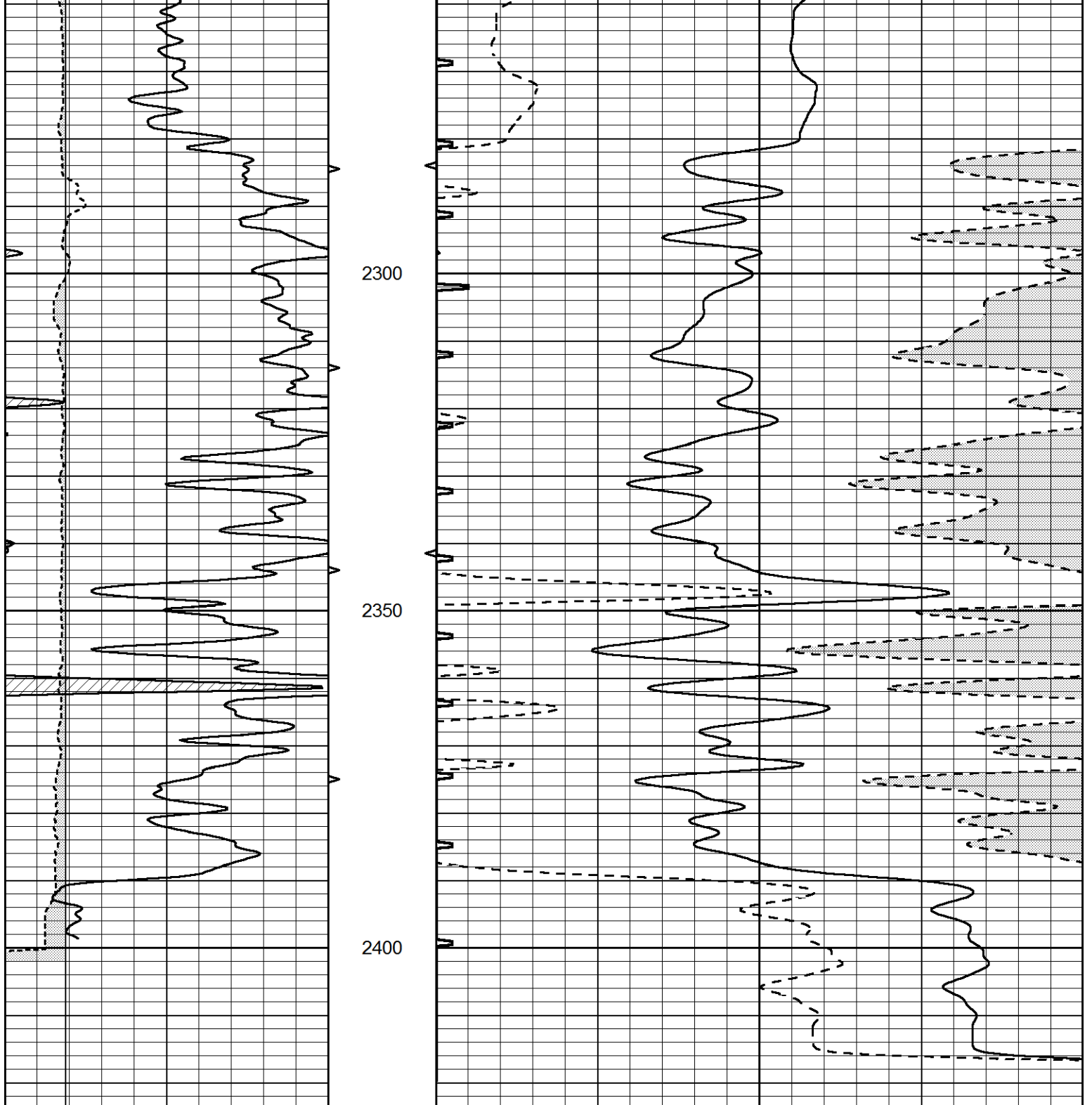


REPEAT SECTION

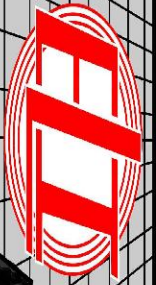
Database File 3993pe8.db
 Dataset Pathname pass5.1
 Presentation Format _slt
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0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
			TBHV	0	ITT (msec)	20
			0 (ft3) 10			





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6	CALIPER (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
			TBHV	0	ITT (msec)	20
			0 (ft3)	10		



**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company CROSS BAR ENERGY, LLC.

Well BURKETT "E" #53

Field BURKETT

County GREENWOOD State KANSAS

Location: API # :

732' FSL & 330' FWL

SEC 23 TWP 23S RGE 10E

Permanent Datum GROUND LEVEL Elevation 1394
Log Measured From KELLY BUSHING 5.5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DILMEL
SONIC

Elevation

K.B. 1399.5
D.F. 1397.5
G.L. 1394

Date	9/16/19	
Run Number	ONE	
Depth Driller	2419	
Depth Logger	2418	
Bottom Logged Interval	2394	
Top Log Interval	800	
Casing Driller	8 5/8" @ 207'	
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pH / Fluid Loss	9.5/9.6	
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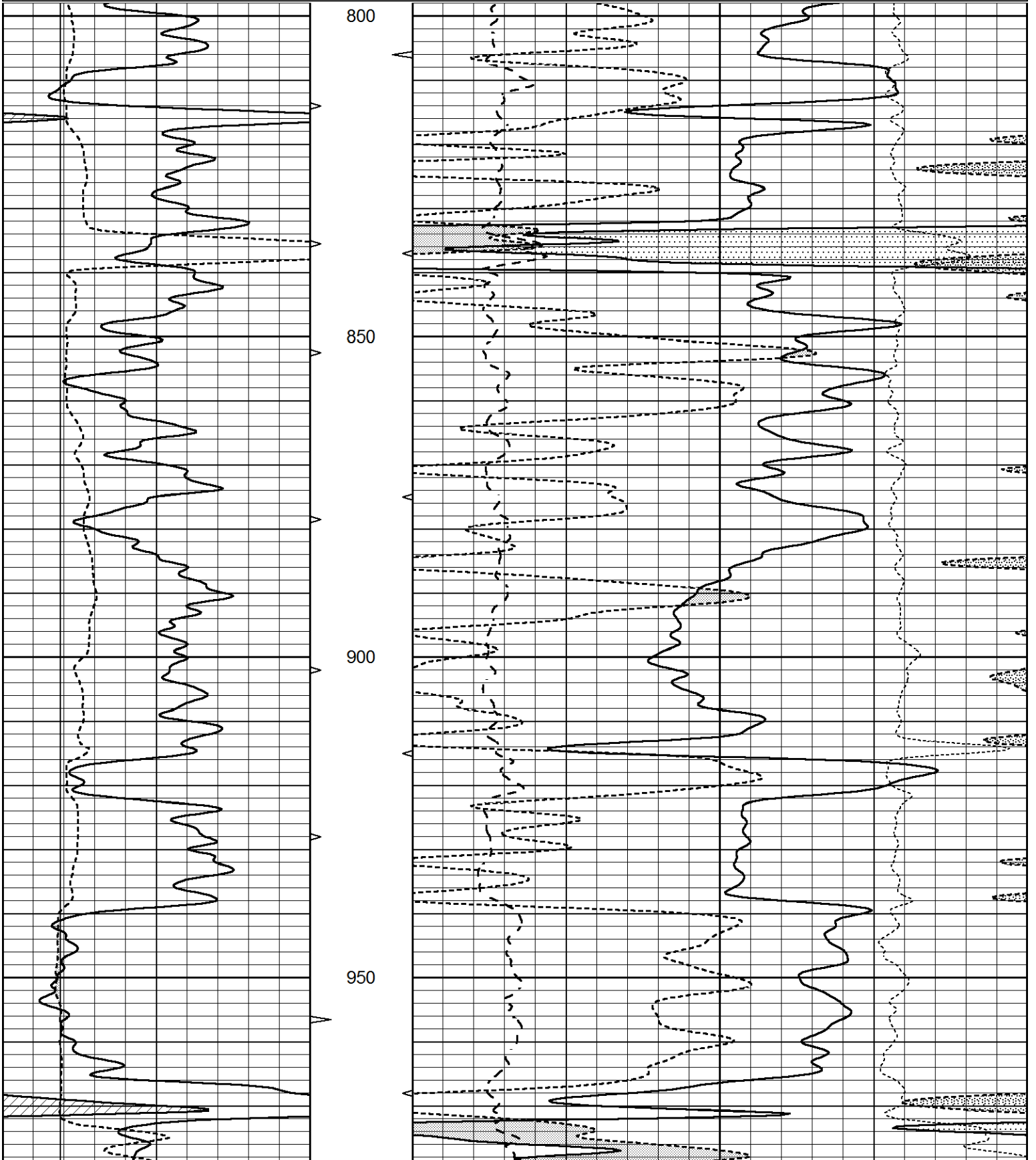
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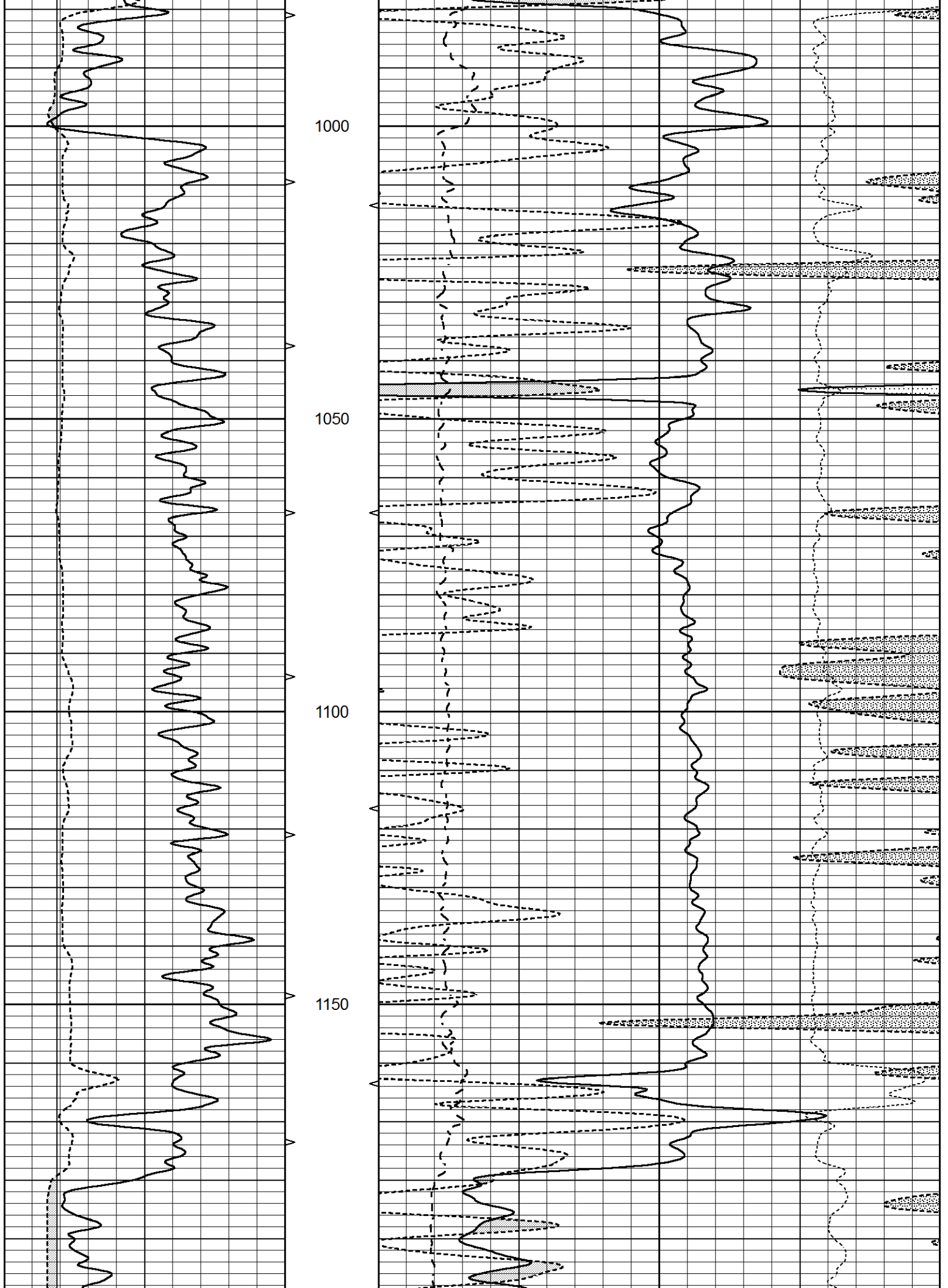


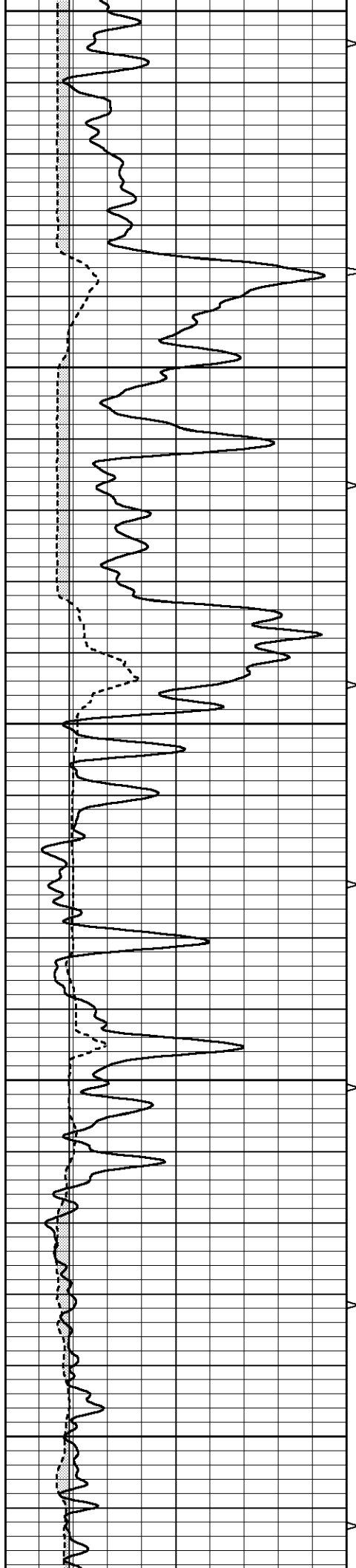
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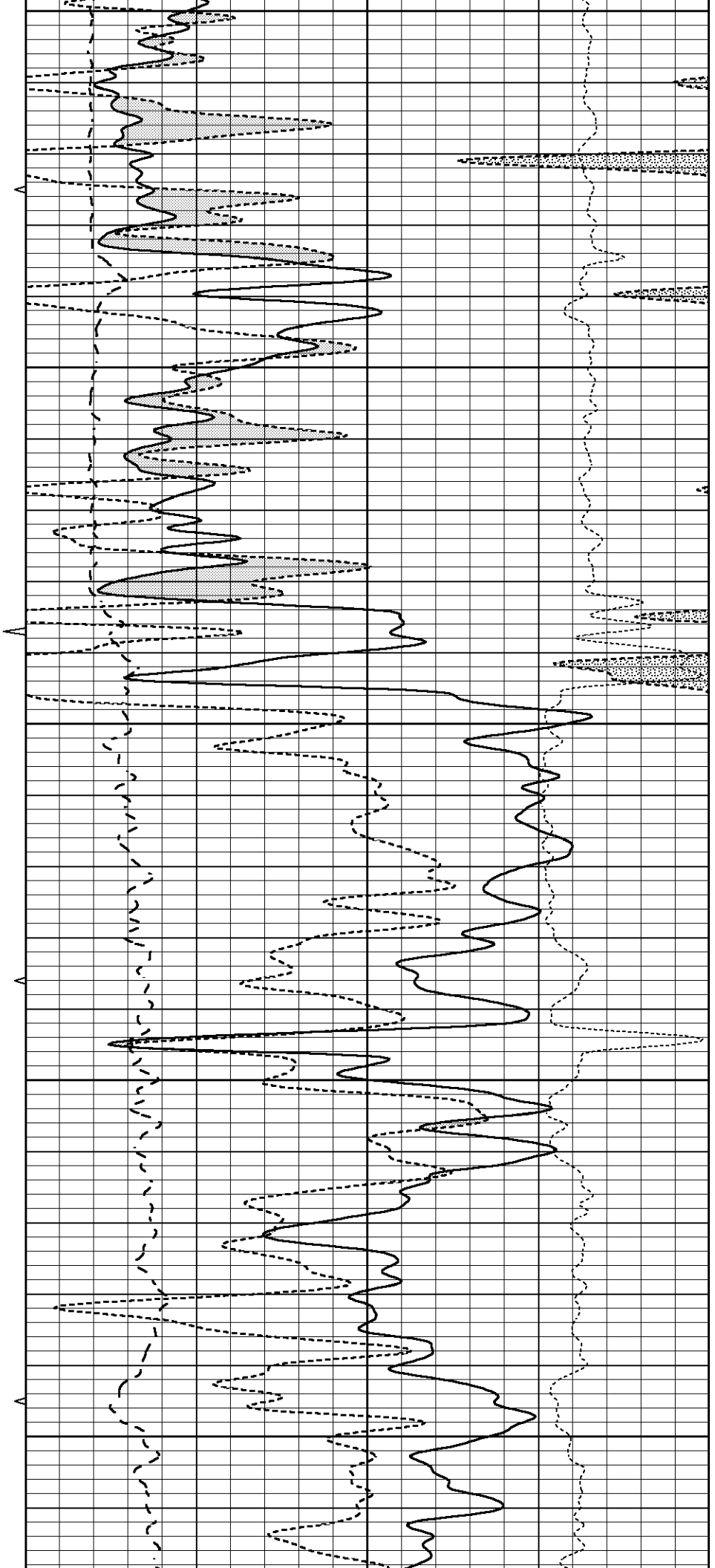
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6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
			TBHV	0	PE	10	-0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10			

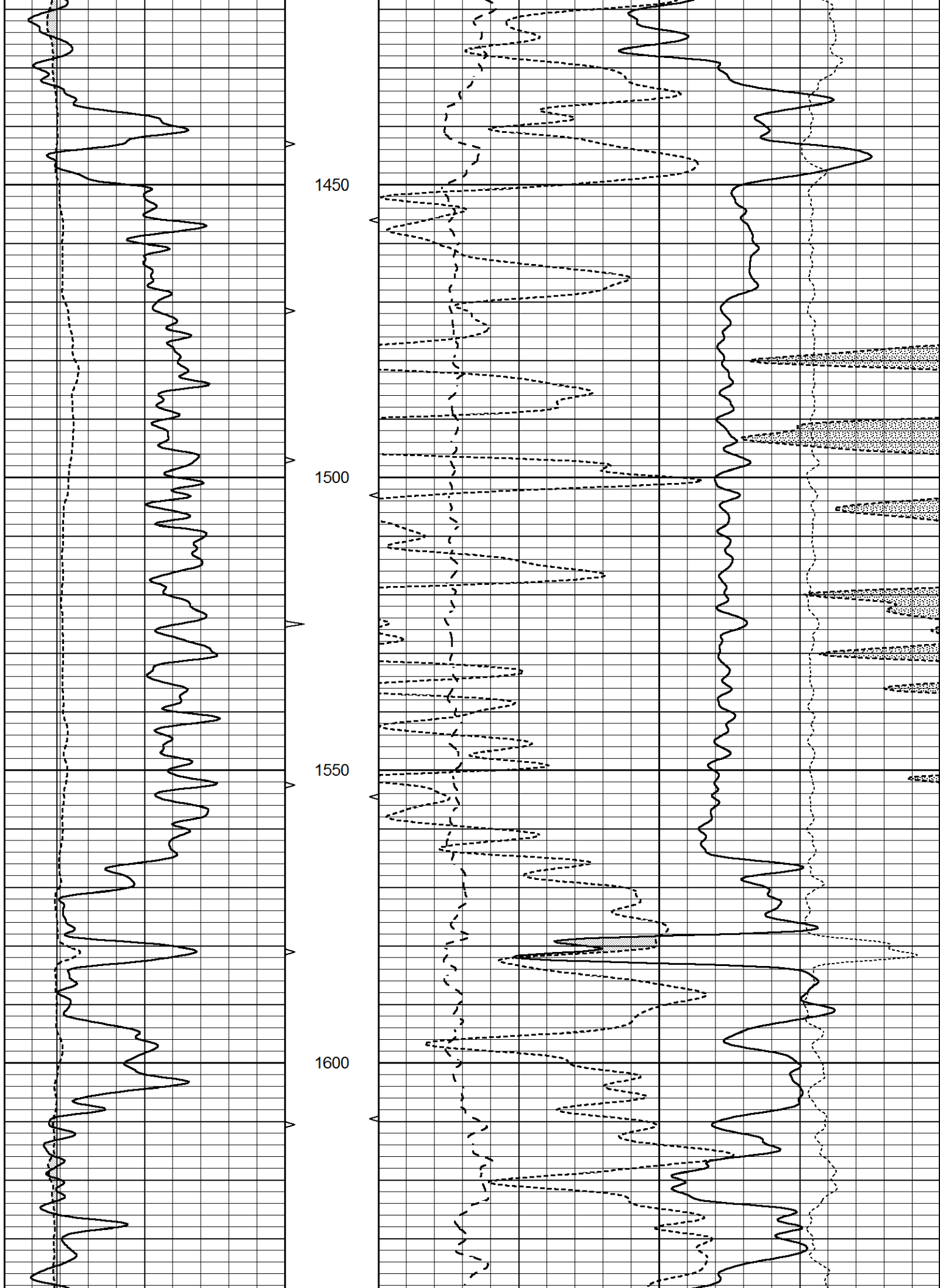


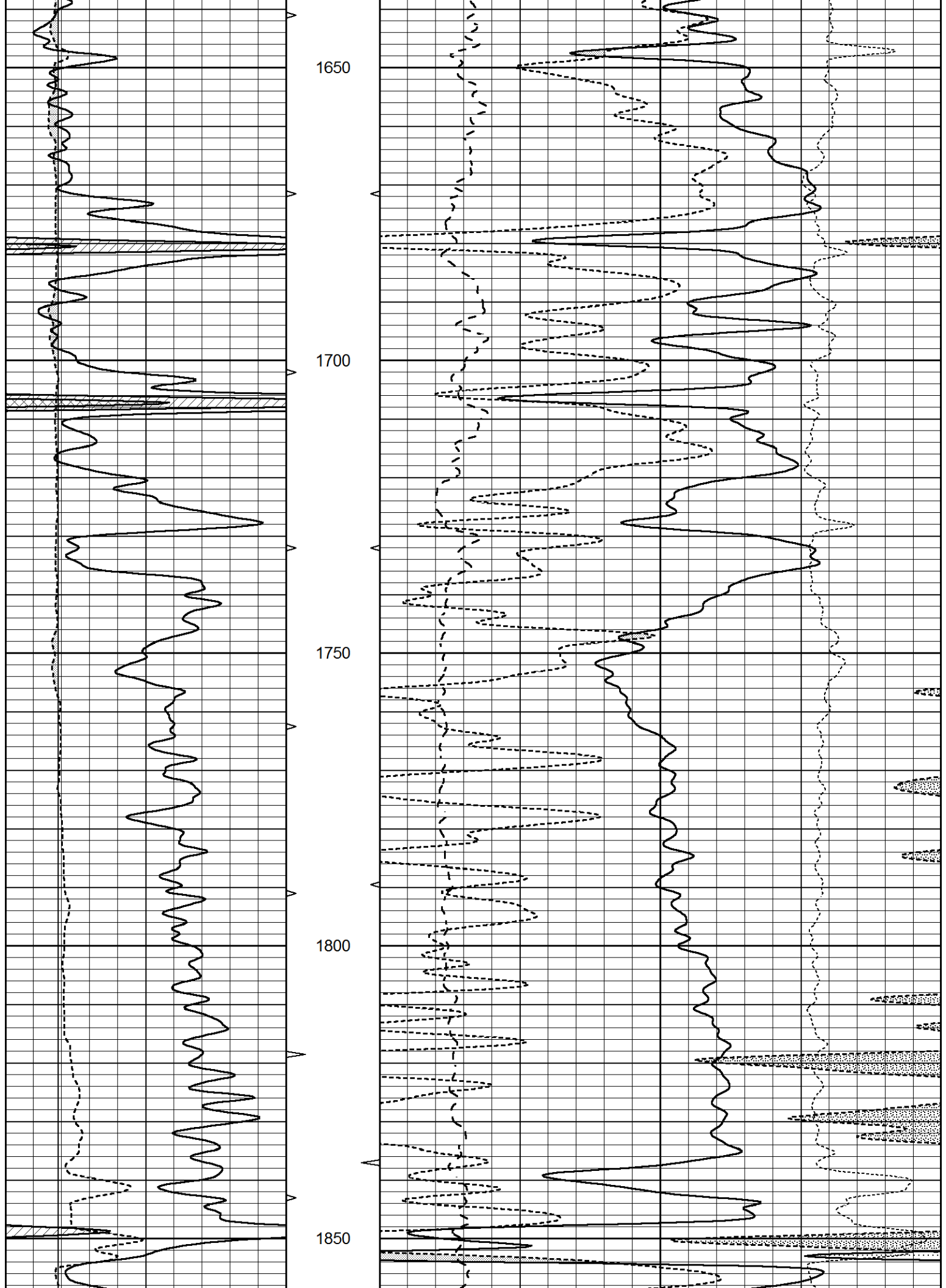


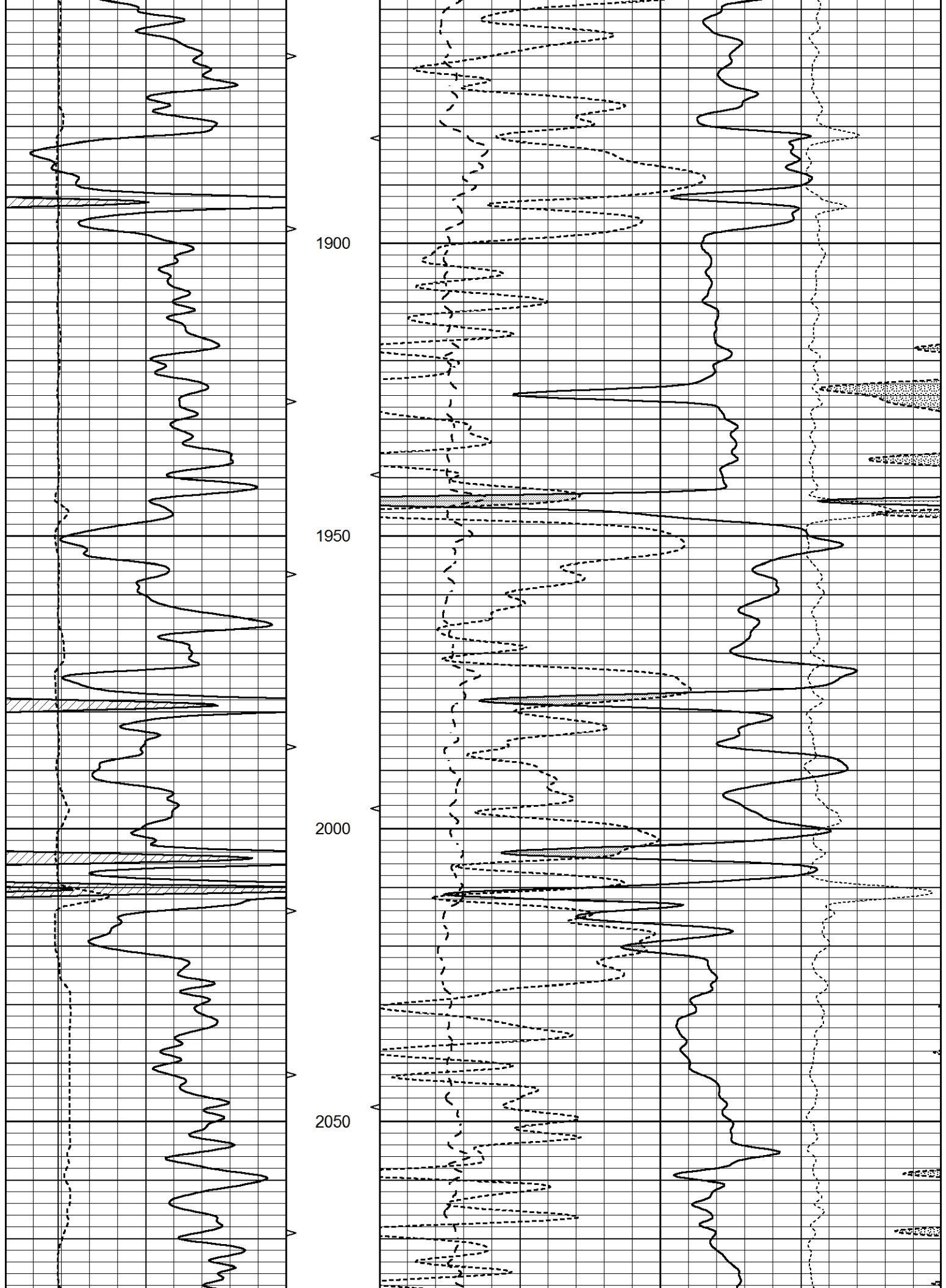


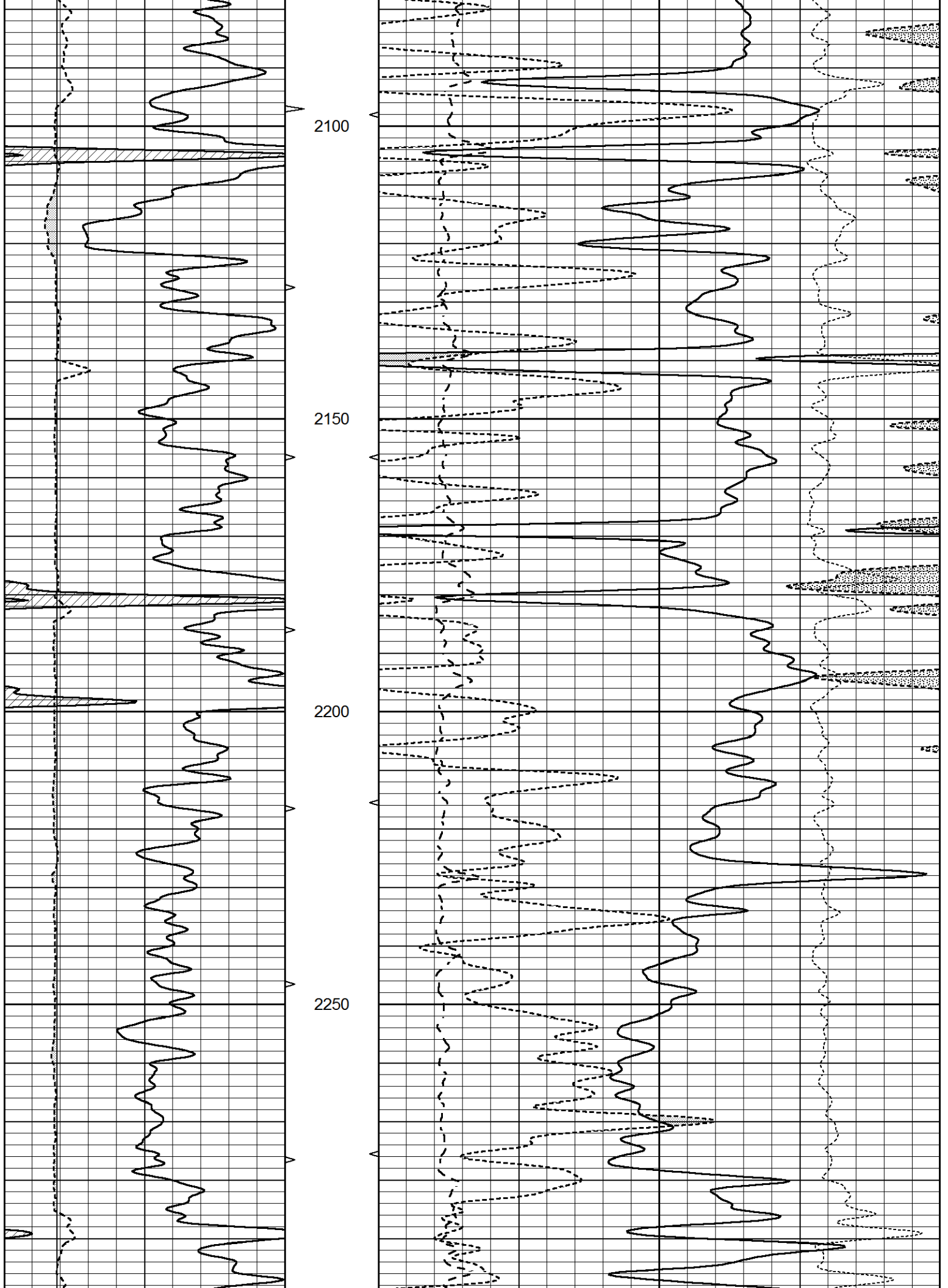
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1300
1350
1400

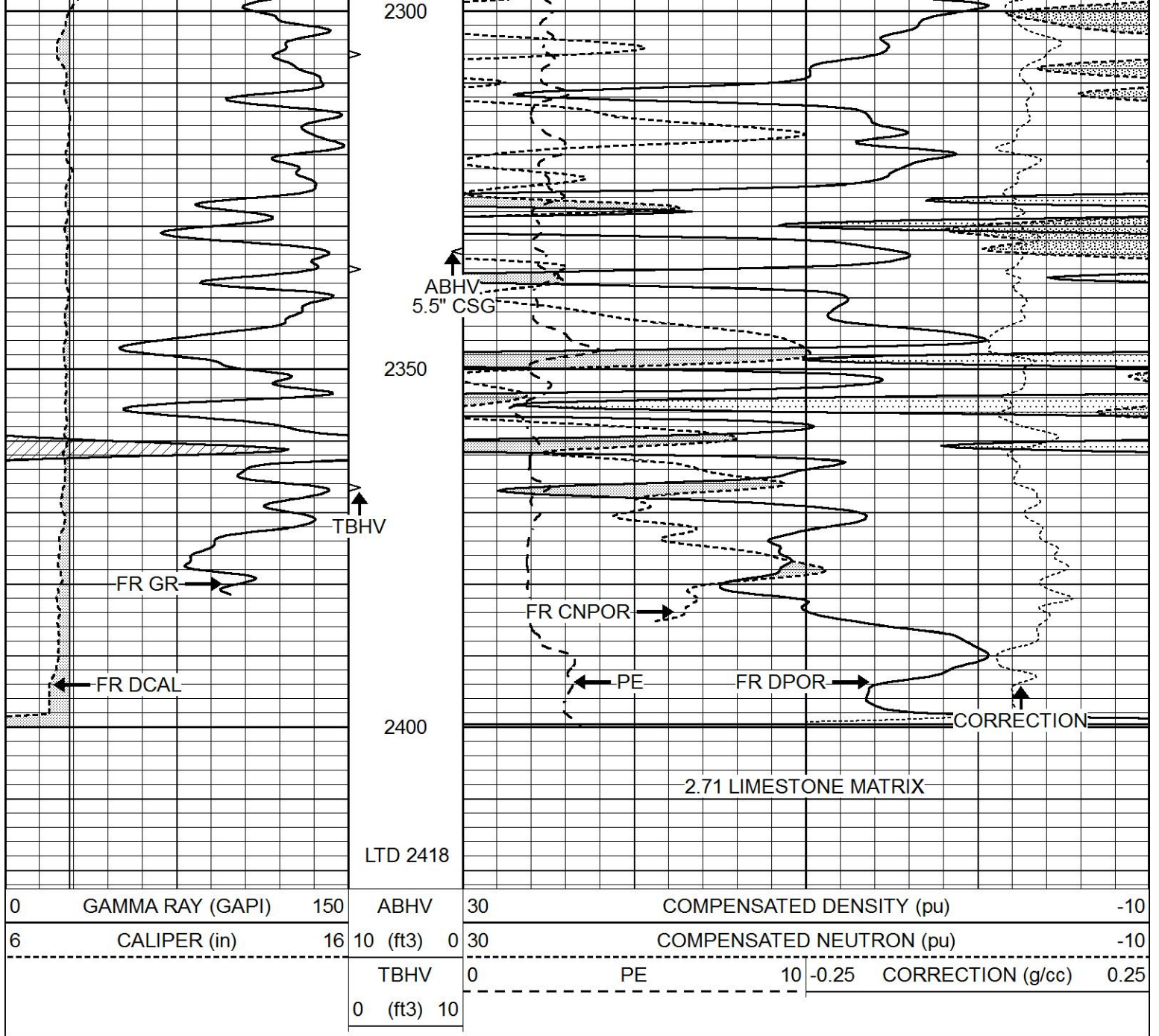








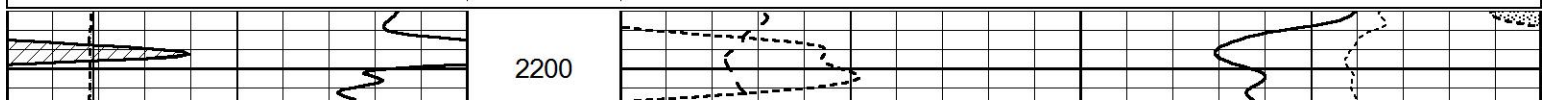


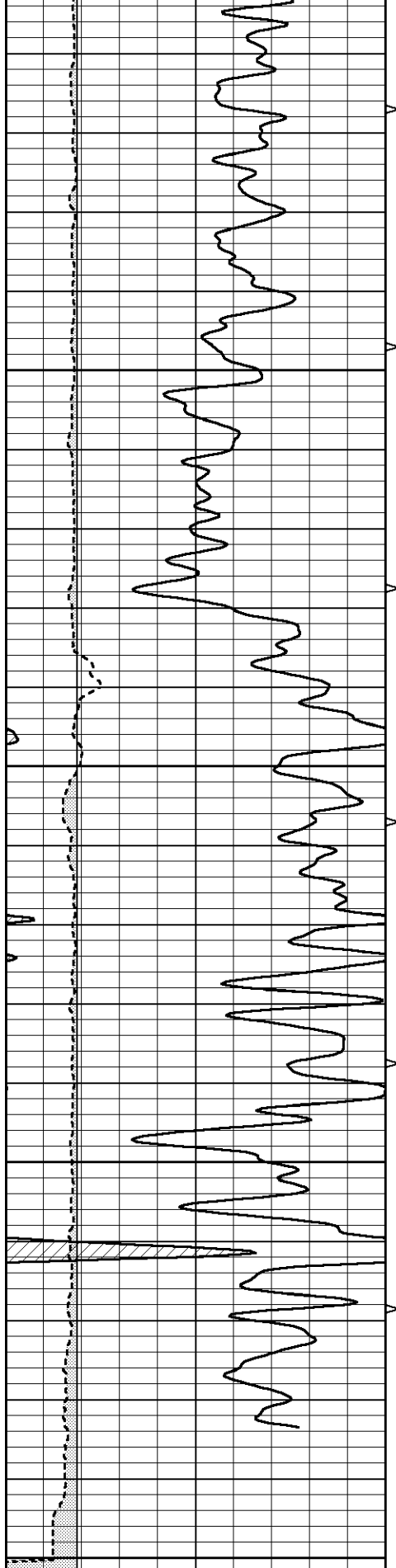


REPEAT SECTION

Database File 3993pe8.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Mon Sep 16 13:54:48 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
-----			TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
-----			0 (ft3) 10	-----		



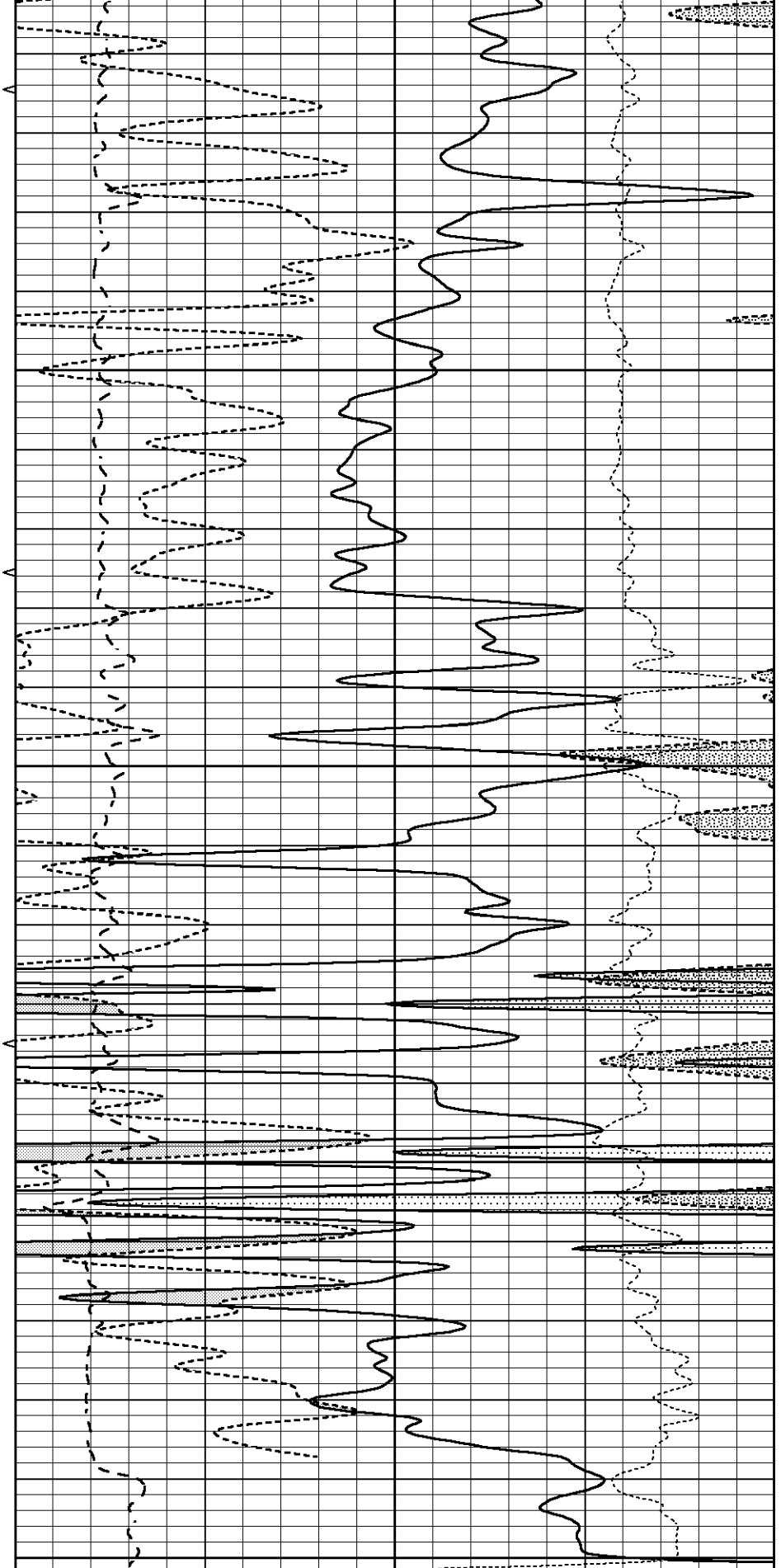


2250

2300

2350

2400



0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)			-10
			TBHV	0	PE	10	-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10					

Calibration Report

Database File 3993pe8.db
 Dataset Pathname pass2.1
 Dataset Creation Mon Sep 16 13:54:48 2019

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Tue Feb 19 11:44:18 2019
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Neutron Calibration Report

Serial Number: 080621PMC
 Tool Model: NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	7	
Tool Model:	Probe1	
Performed:	Tue Feb 19 11:45:10 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps



DUAL
INDUCTION
LOG

Company CROSS BAR ENERGY, LLC.
Well BURKETT "E" #53
Field BURKETT
County GREENWOOD State KANSAS

Location: API # :
732' FSL & 330' FWL
SEC 23 TWP 23S RGE 10E
Permanent Datum GROUND LEVEL Elevation 1394
Log Measured From KELLY BUSHING 5.5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
MEL/SON
Elevation
K.B. 1399.5
D.F. 1397.5
G.L. 1394

Date	9/16/19
Run Number	ONE
Depth Driller	2419
Depth Logger	2418
Bottom Logged Interval	2416
Top Log Interval	00
Casing Driller	8 5/8" @ 207'
Casing Logger	209'
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/34
pH / Fluid Loss	9.5/9.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.45 @ 88F
Rmf @ Meas. Temp	1.08 @ 88F
Rmc @ Meas. Temp	1.74 @ 88F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	1.25 @ 102F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	102F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	STUART WOODIE
	ALBERT BRENSING

<<< 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

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
CASSODAY, KS. - EAST TO GREENWOOD COUNTY LINE
STAY EAST TO Q RD. - 1 SOUTH TO 290TH RD - WEST ACROSS LOW
WATER BRIDGE AND UP HILL - AFTER CATTLEGUARD STAY LEFT
BACK AROUND TO NORTH INTO

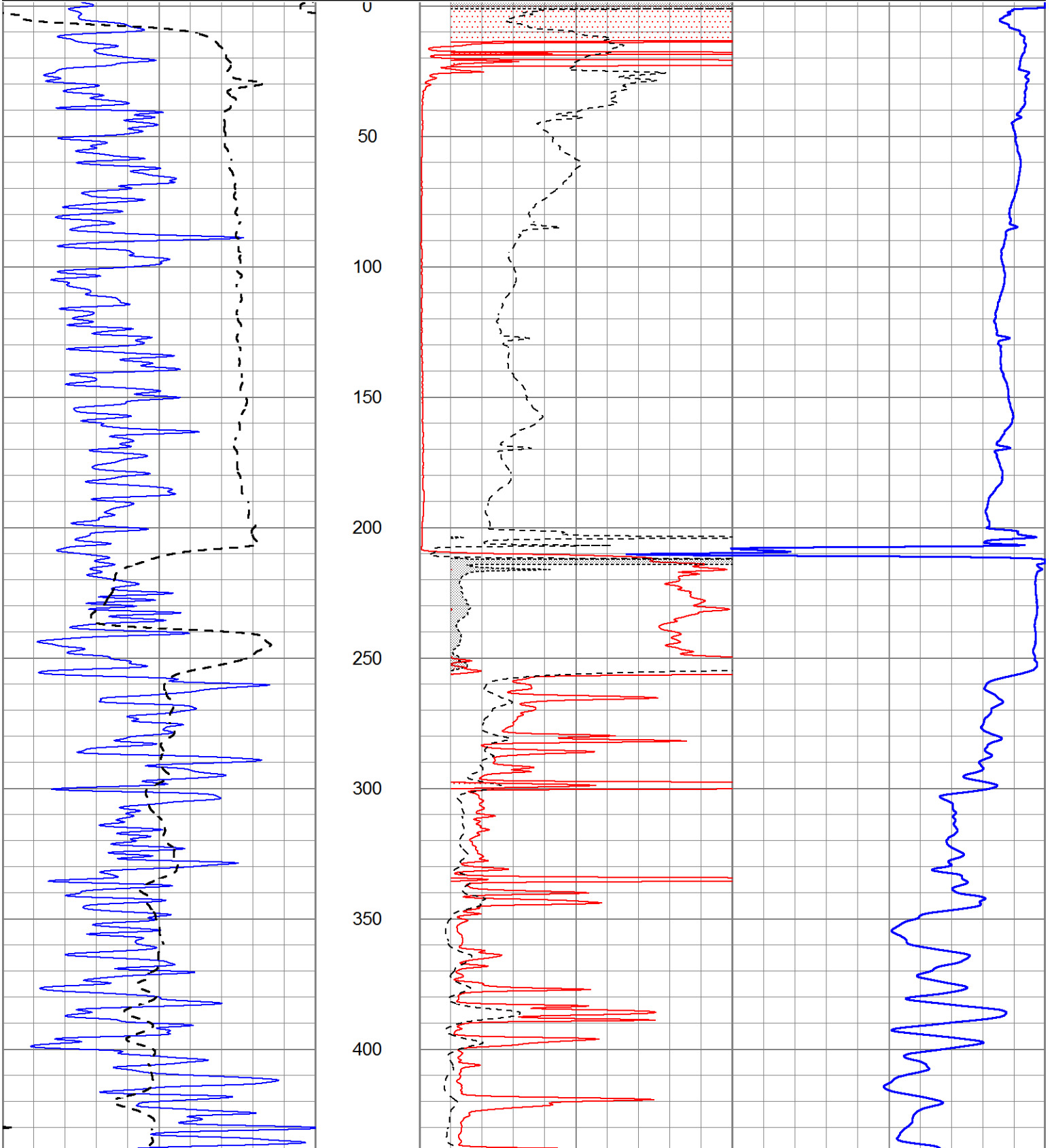


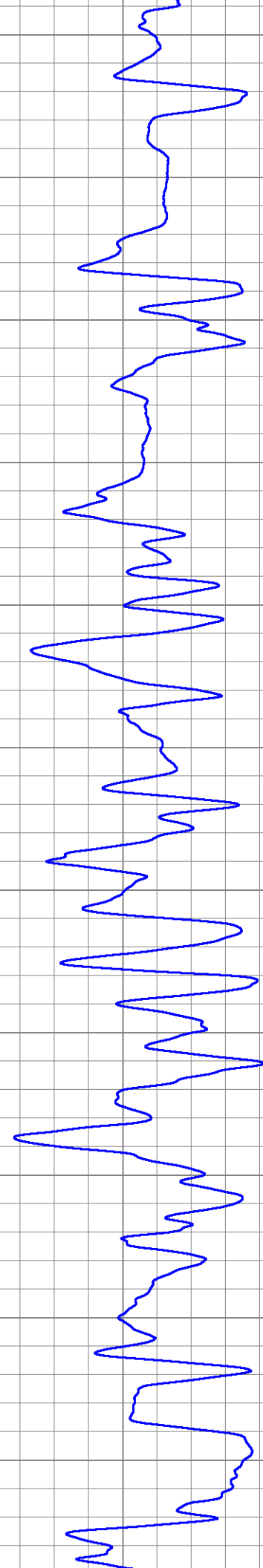
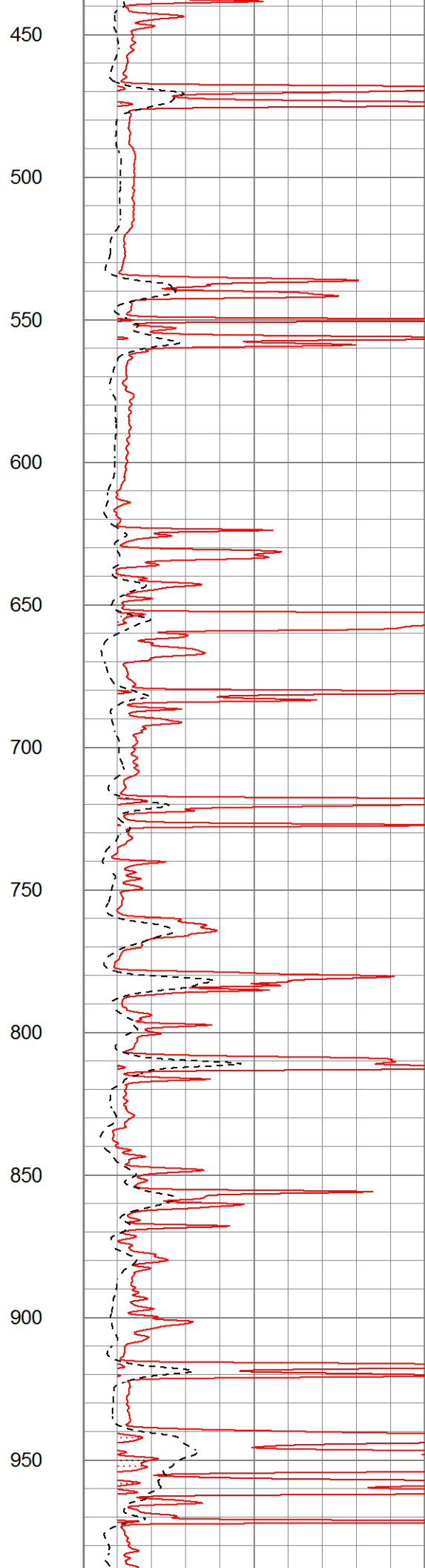
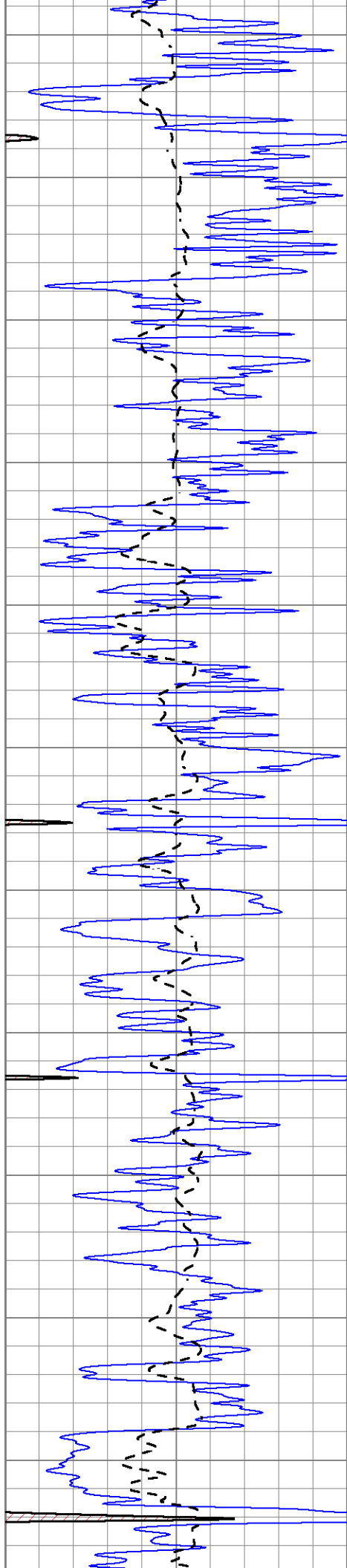
MAIN SECTION

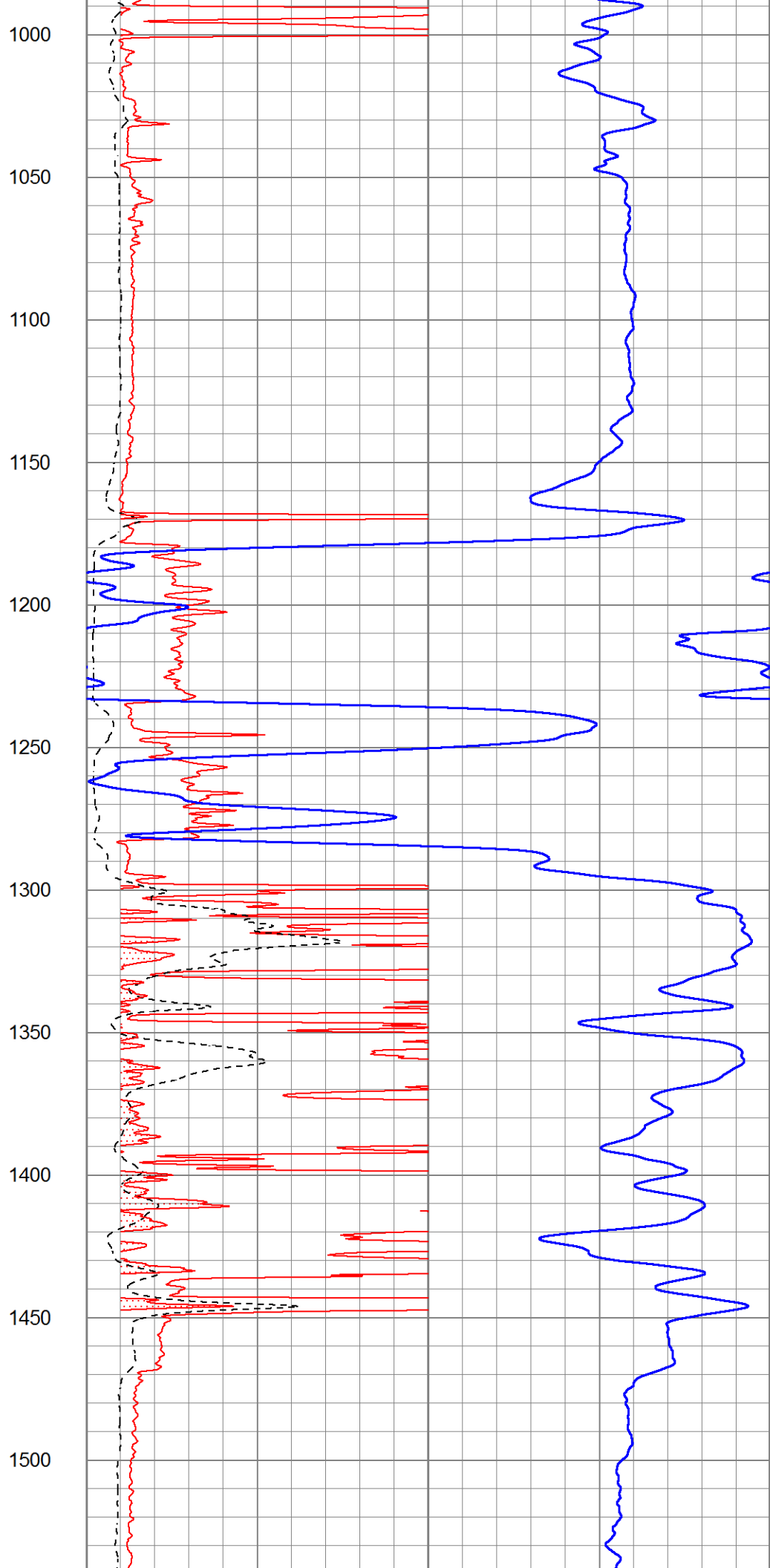
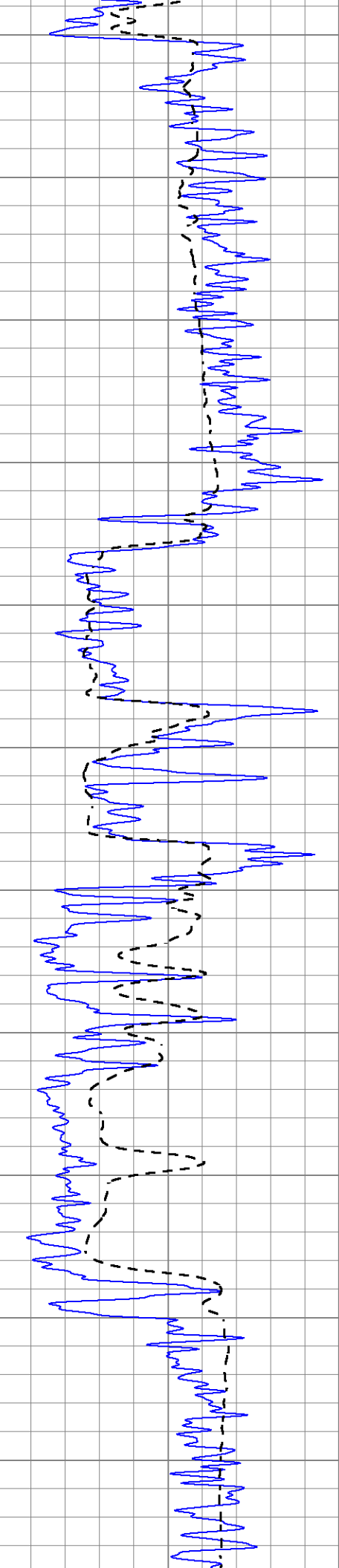
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 Presentation Format _dil2
 Dataset Creation Mon Sep 16 14:51:13 2019
 Charted by Depth in Feet scaled 1:600

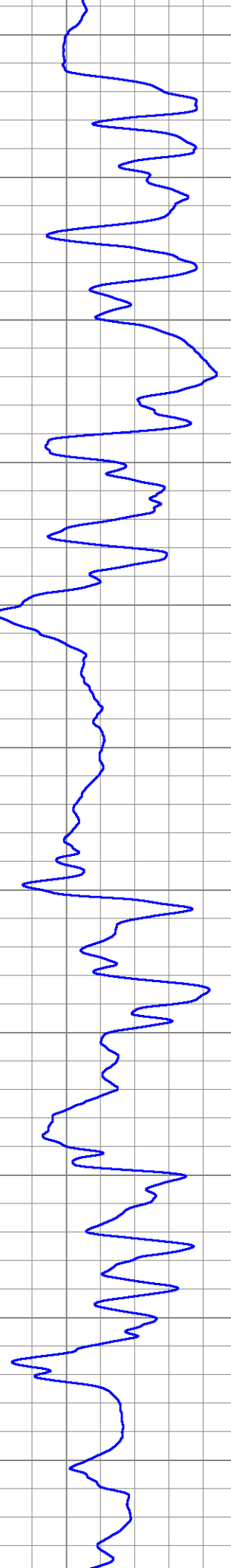
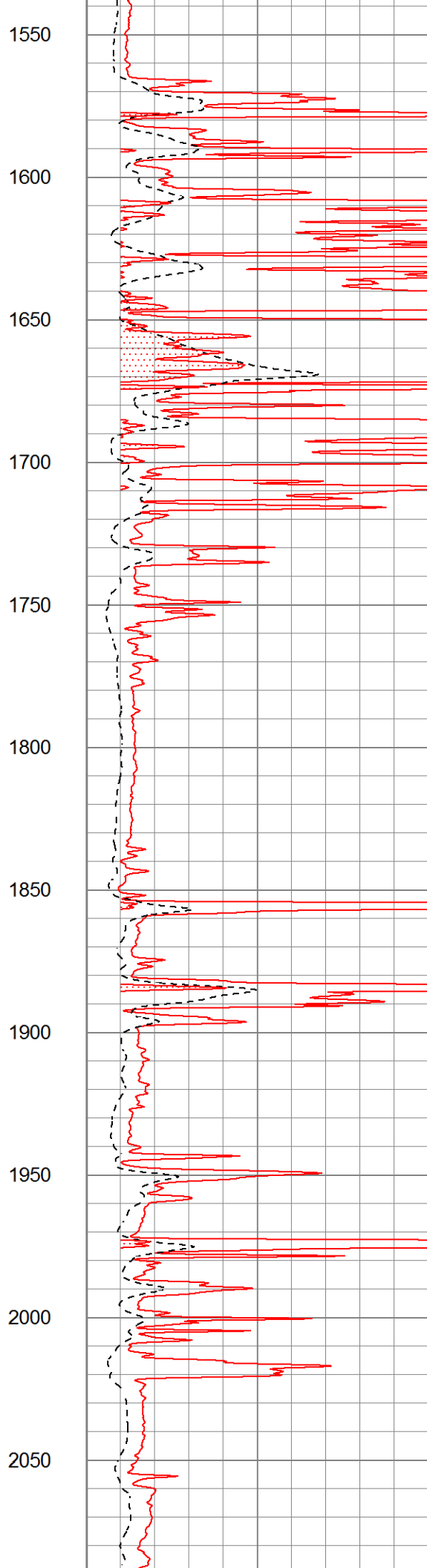
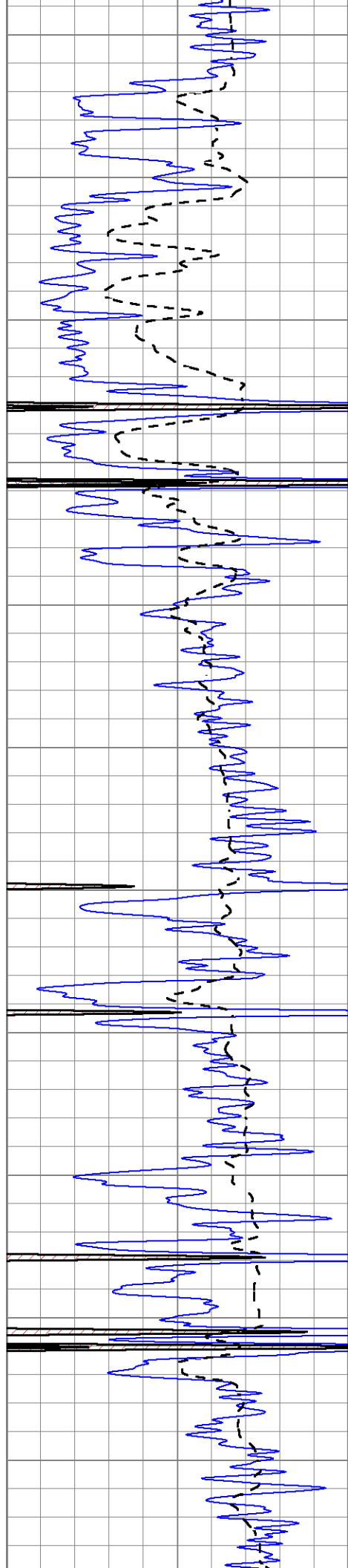
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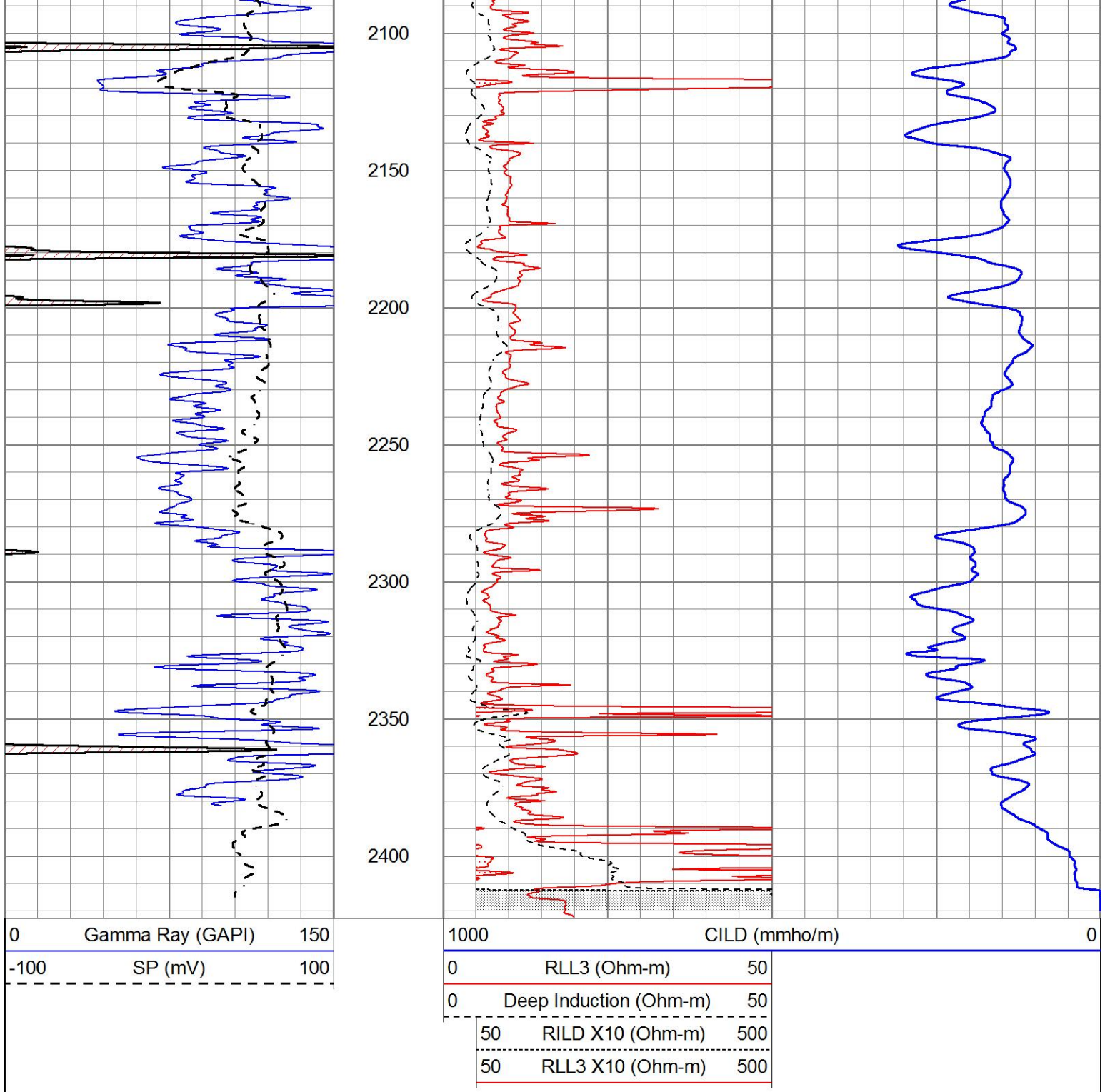
1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500







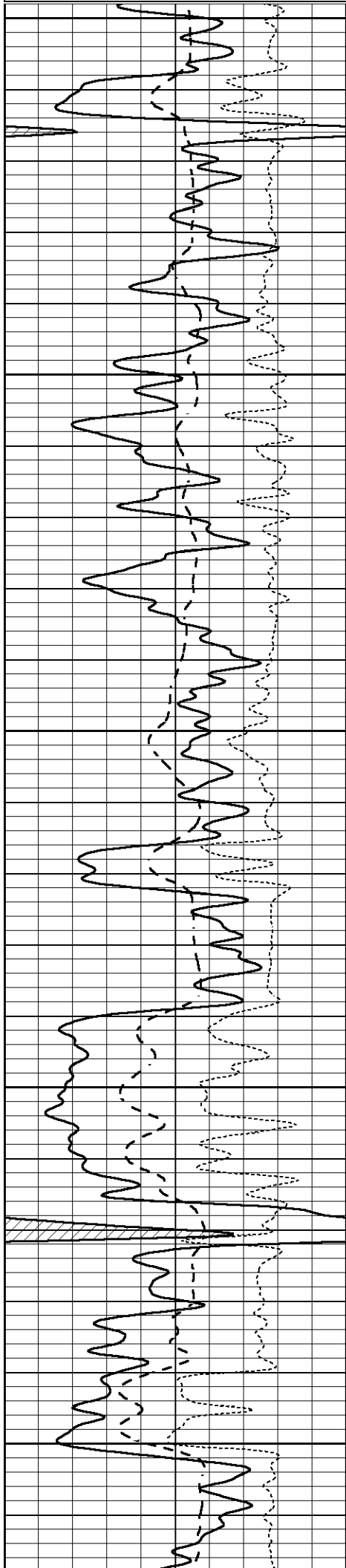




MAIN SECTION

Database File 3993pe8.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Mon Sep 16 14:18:30 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



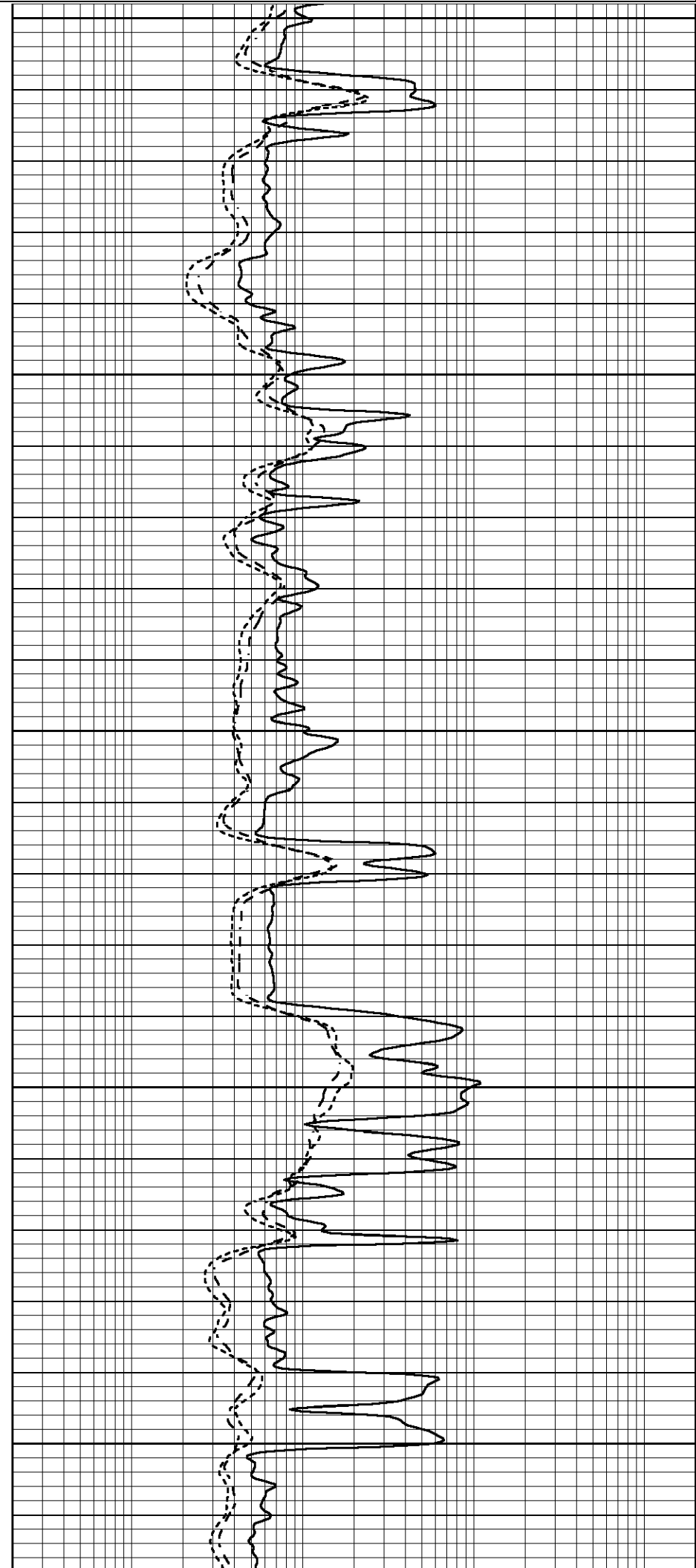
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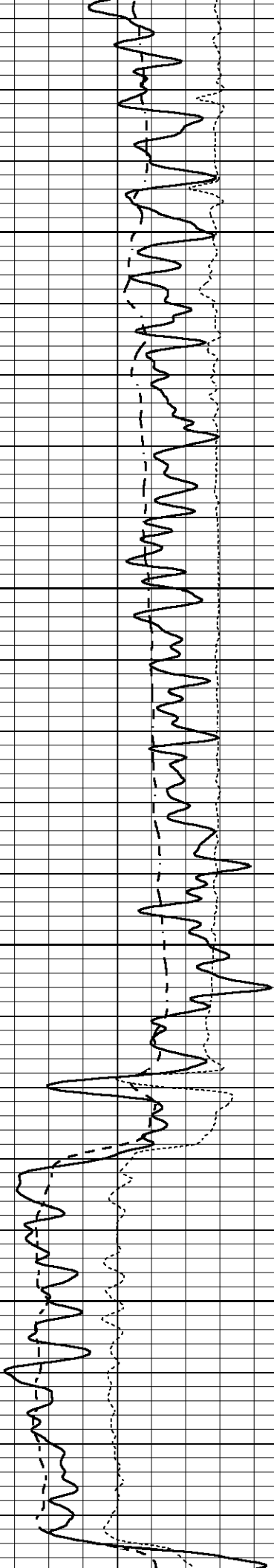
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900

950

1000



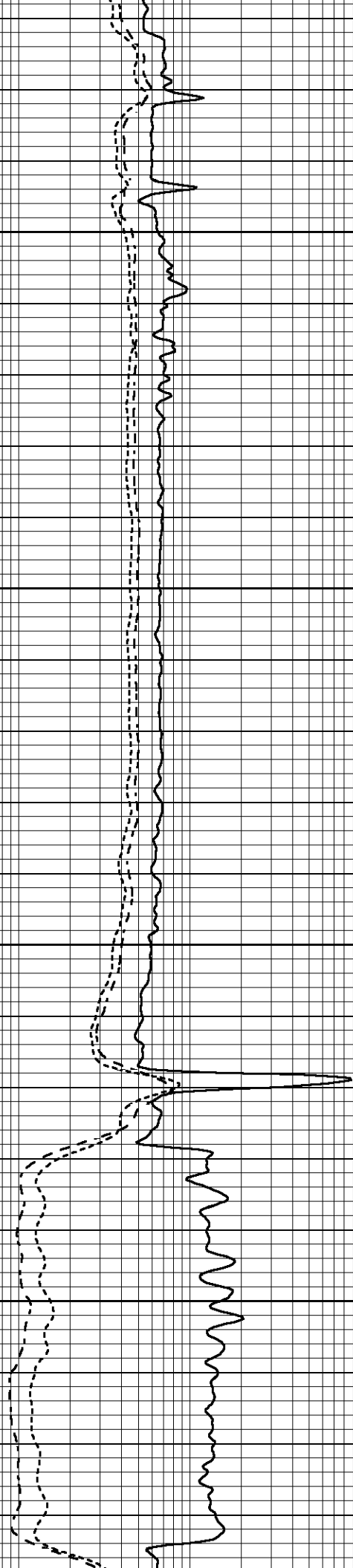


1050

1100

1150

1200



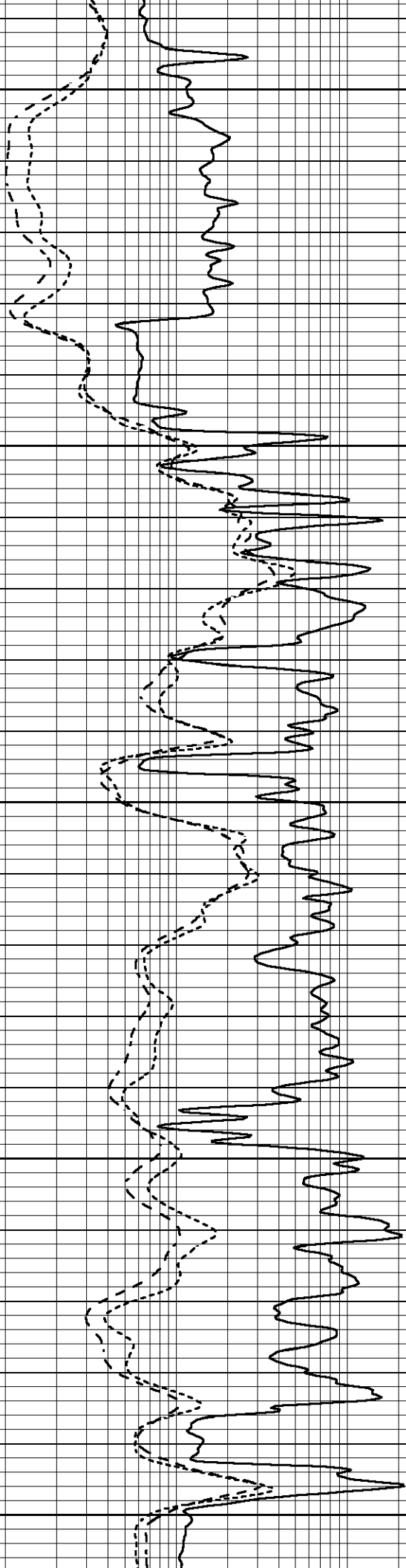
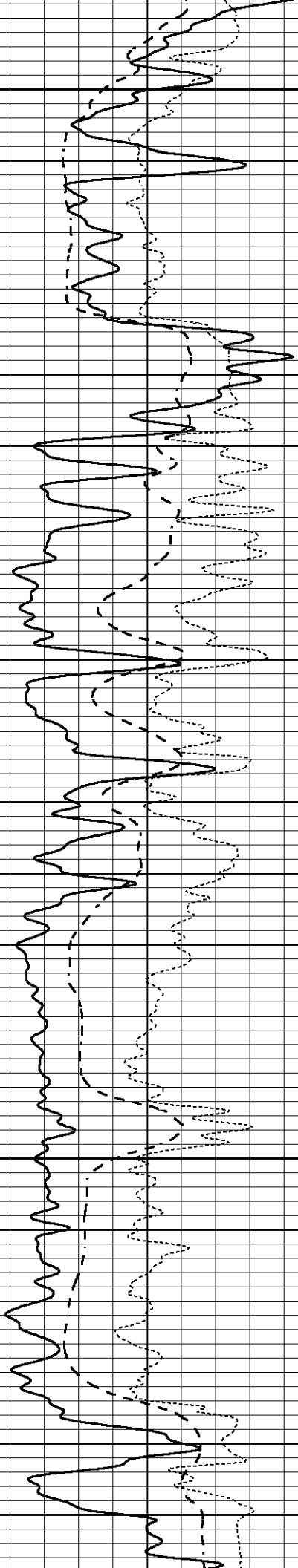
1250

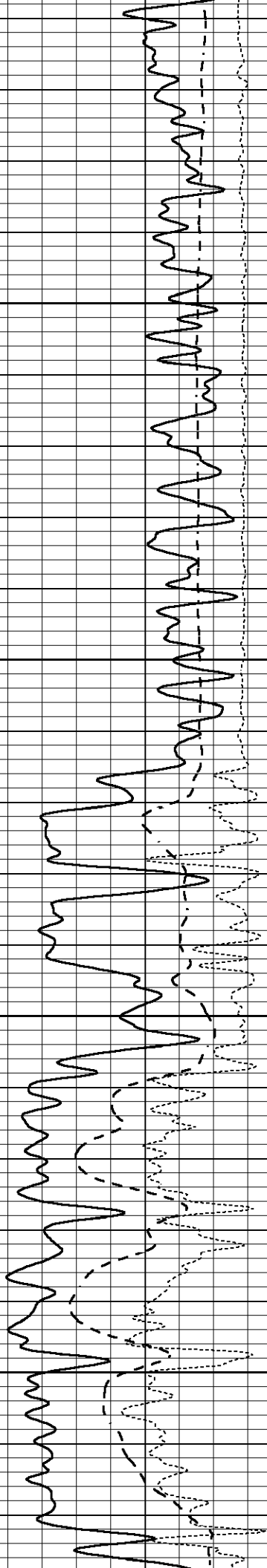
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1350

1400

1450



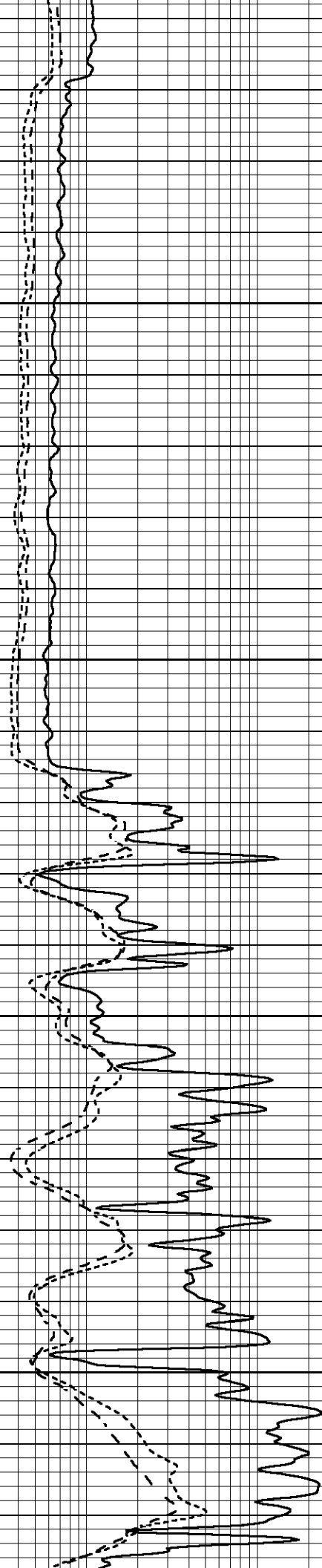


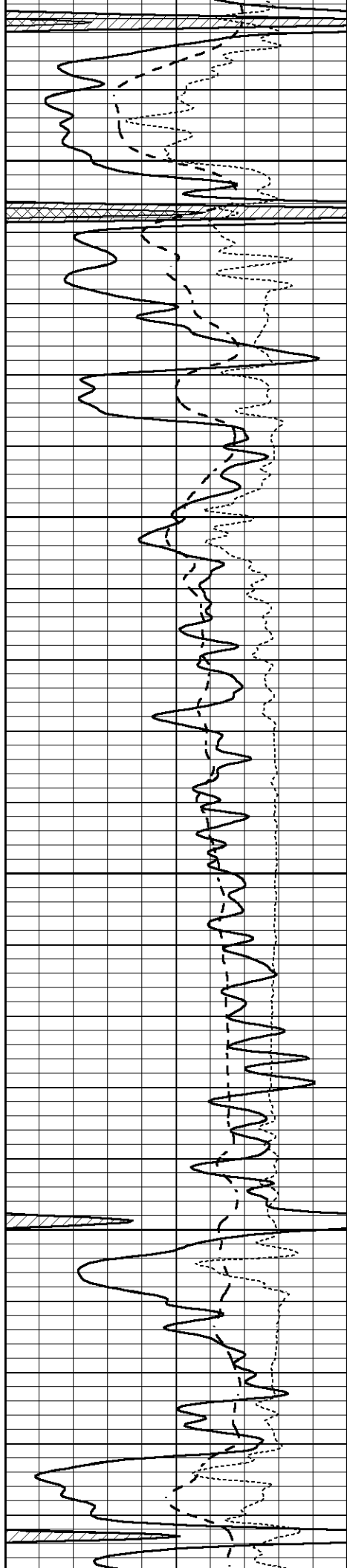
1500

1550

1600

1650



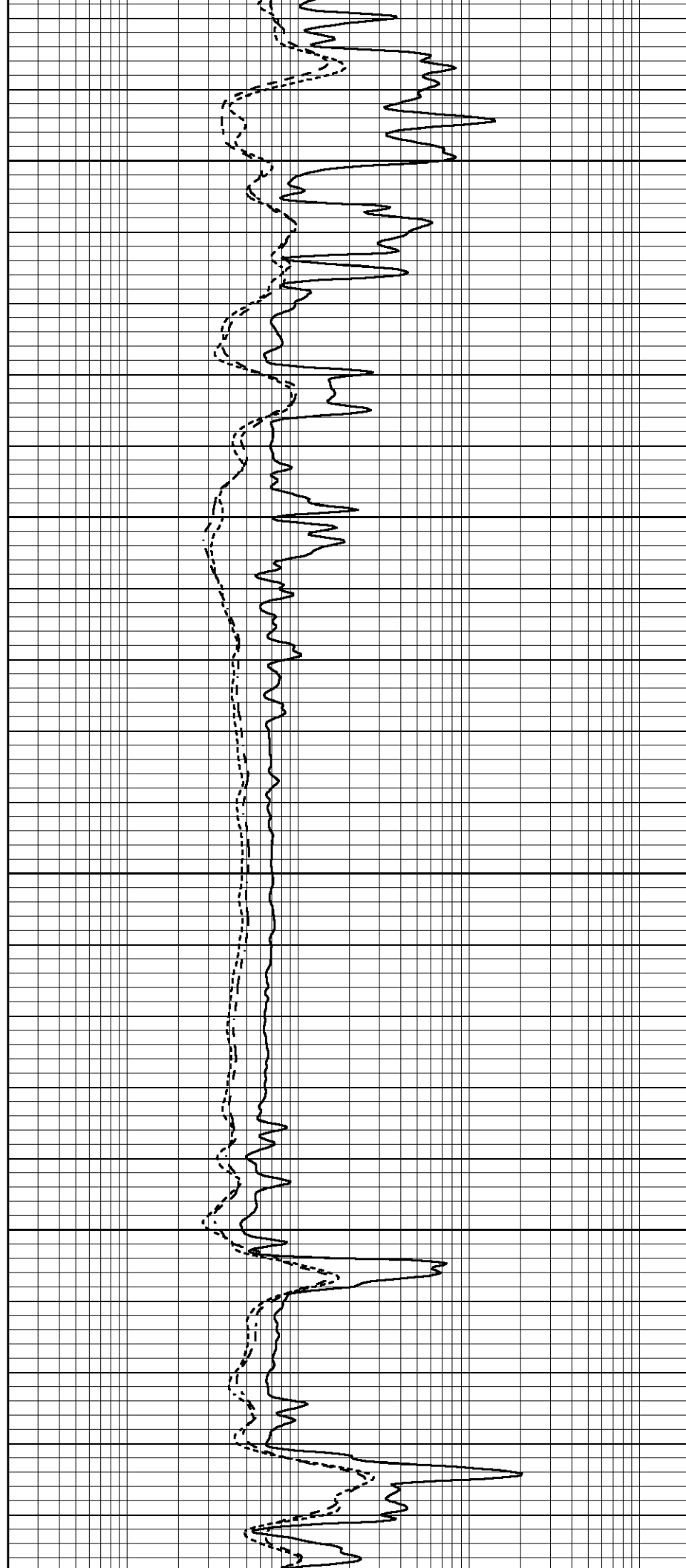


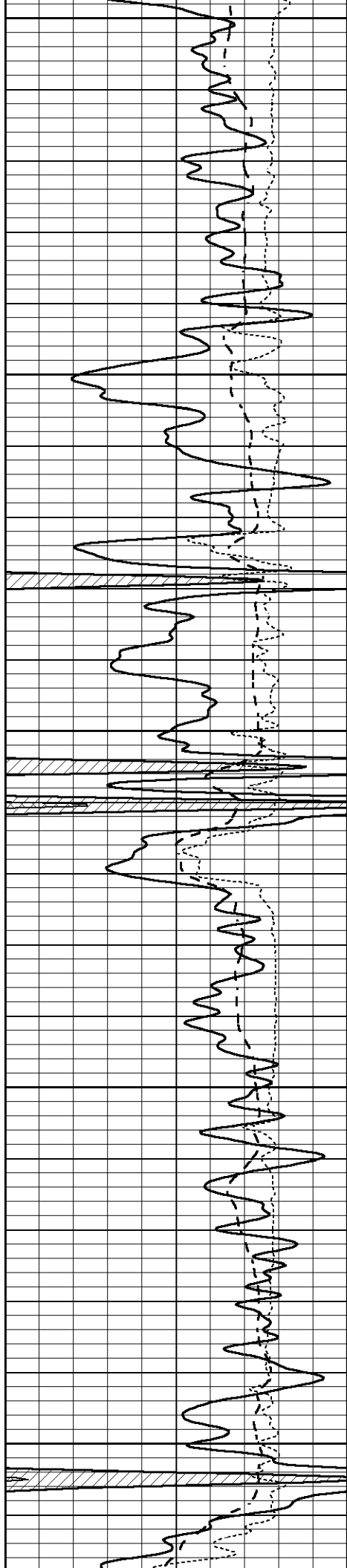
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1750

1800

1850





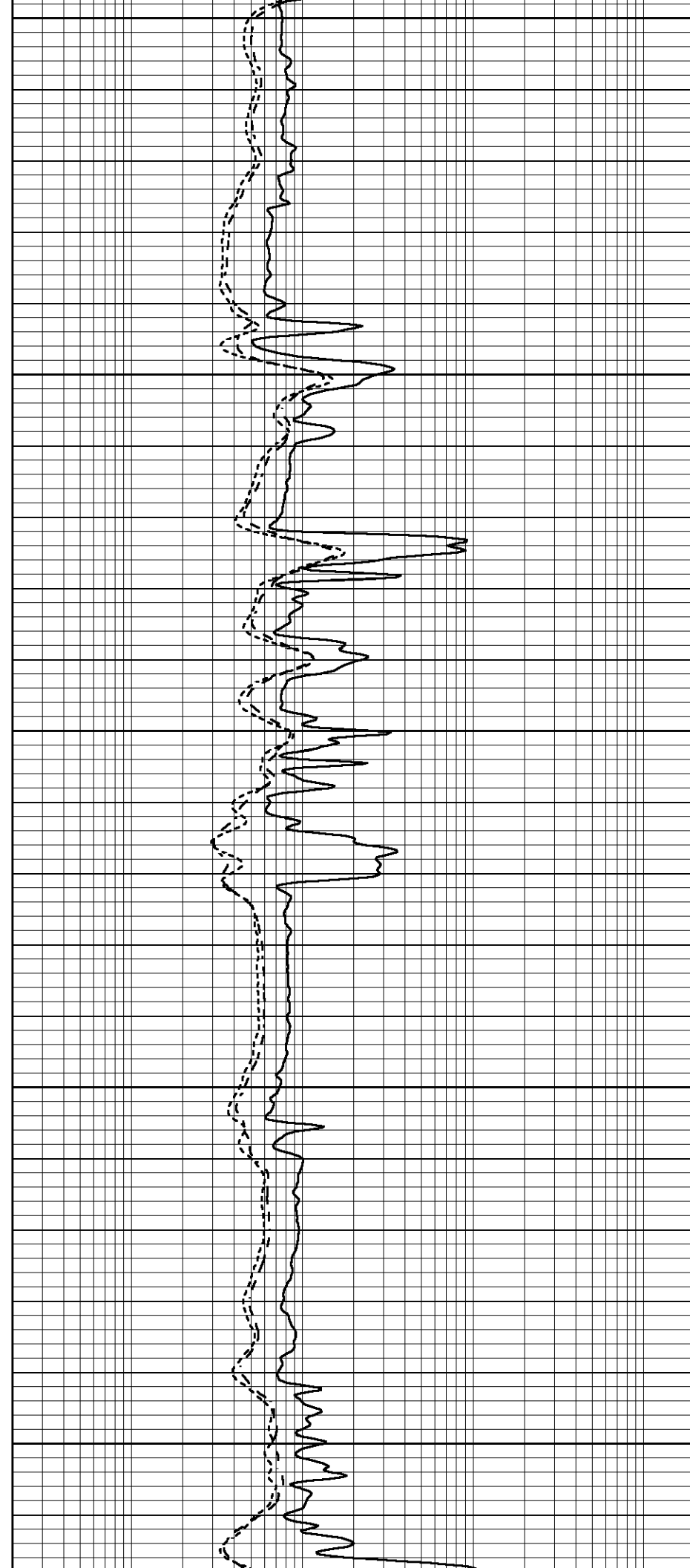
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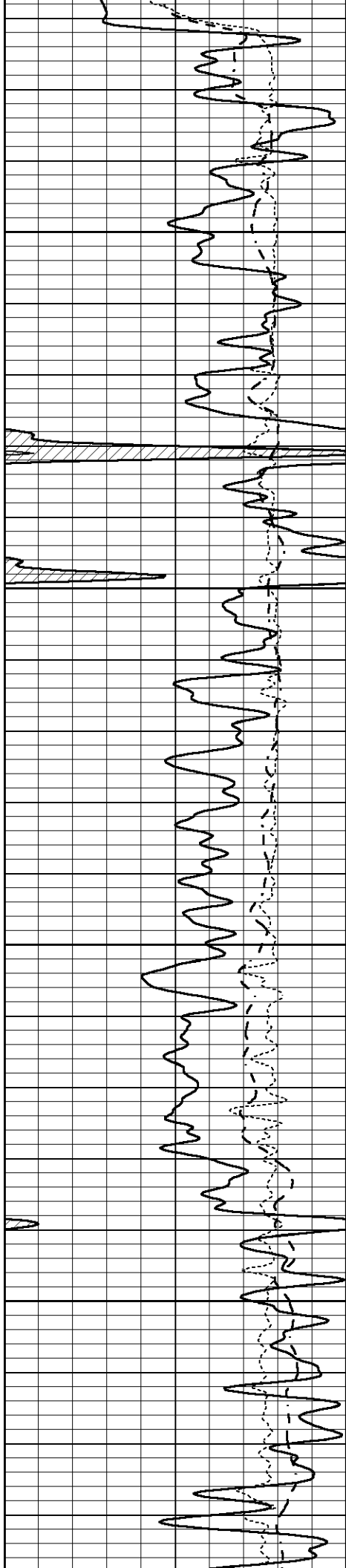
1950

2000

2050

2100



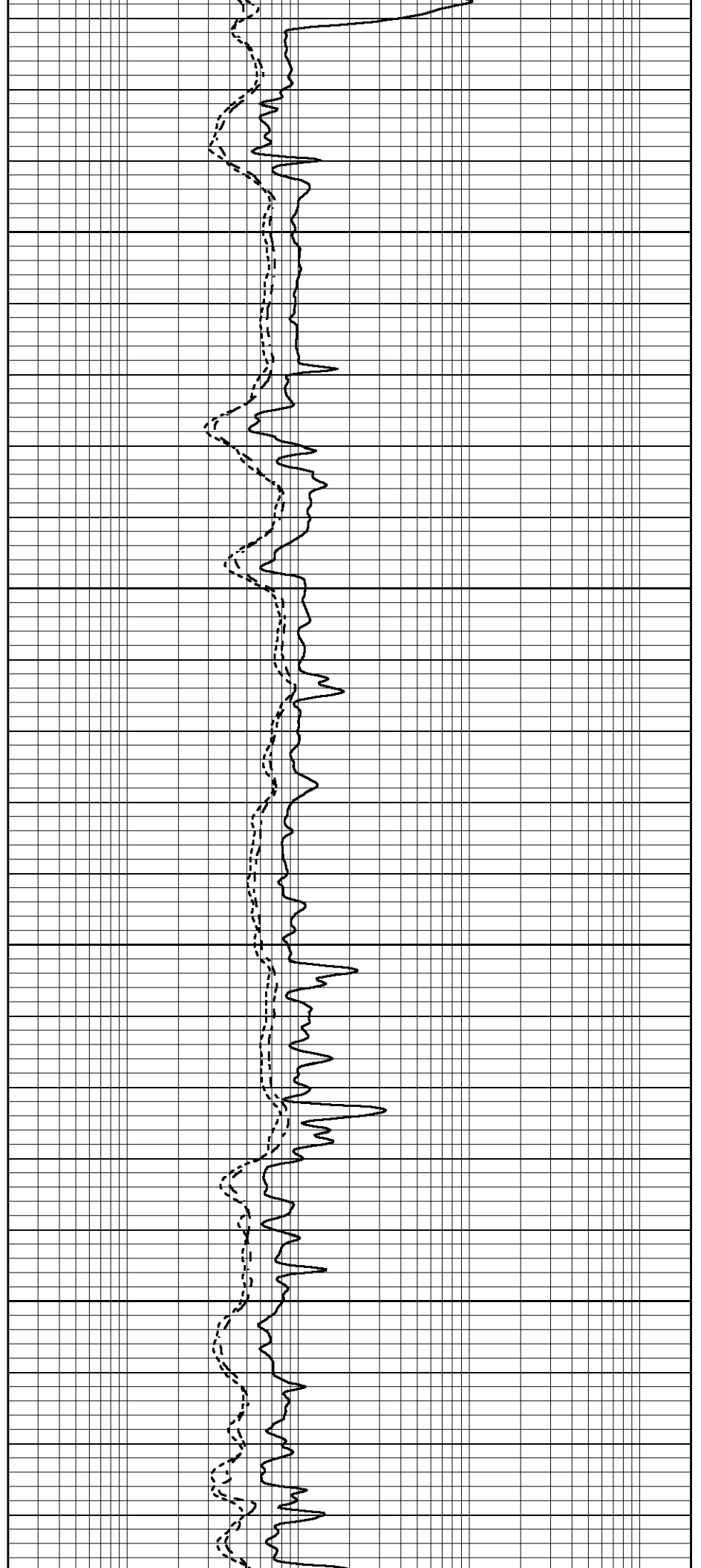


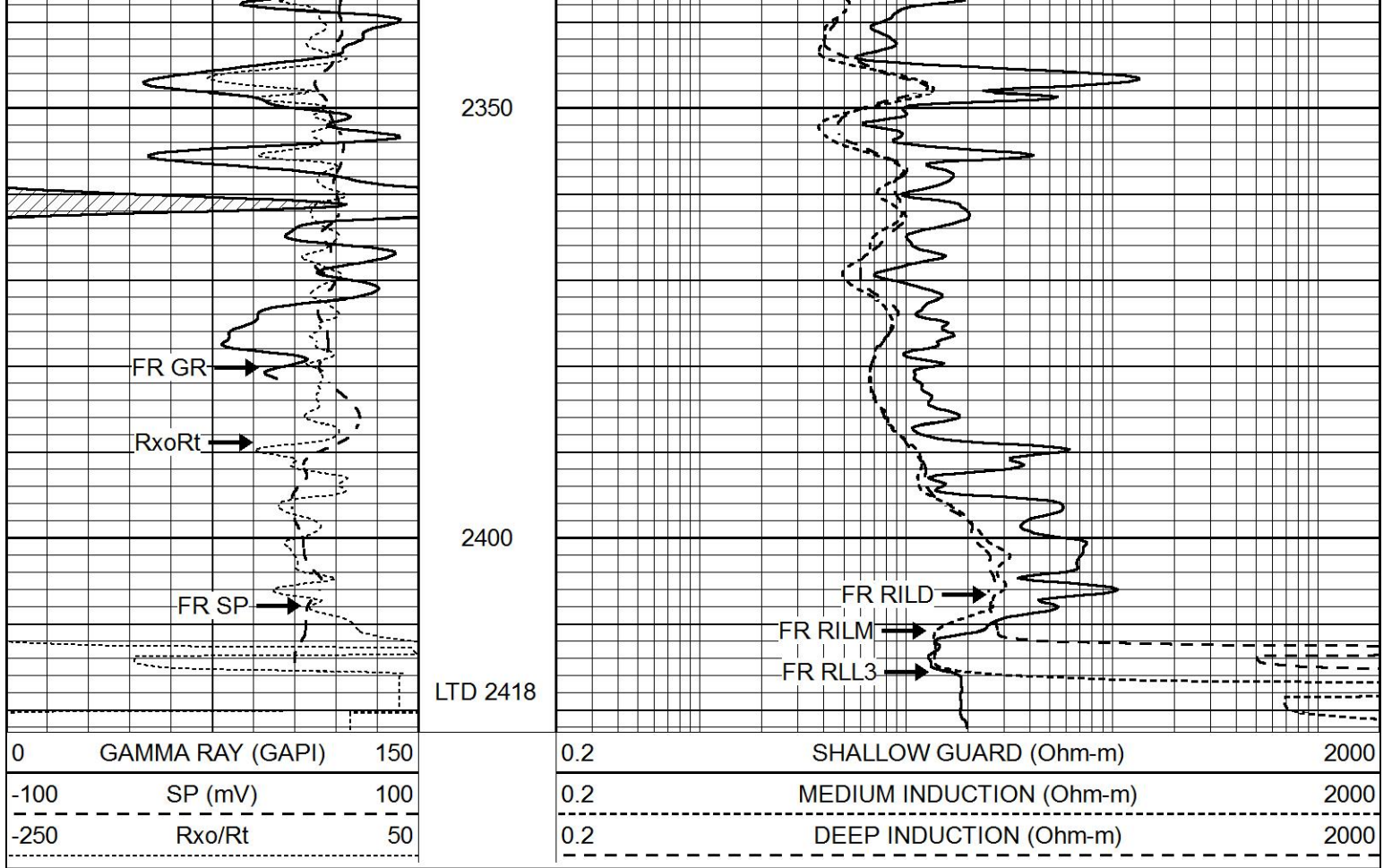
2150

2200

2250

2300

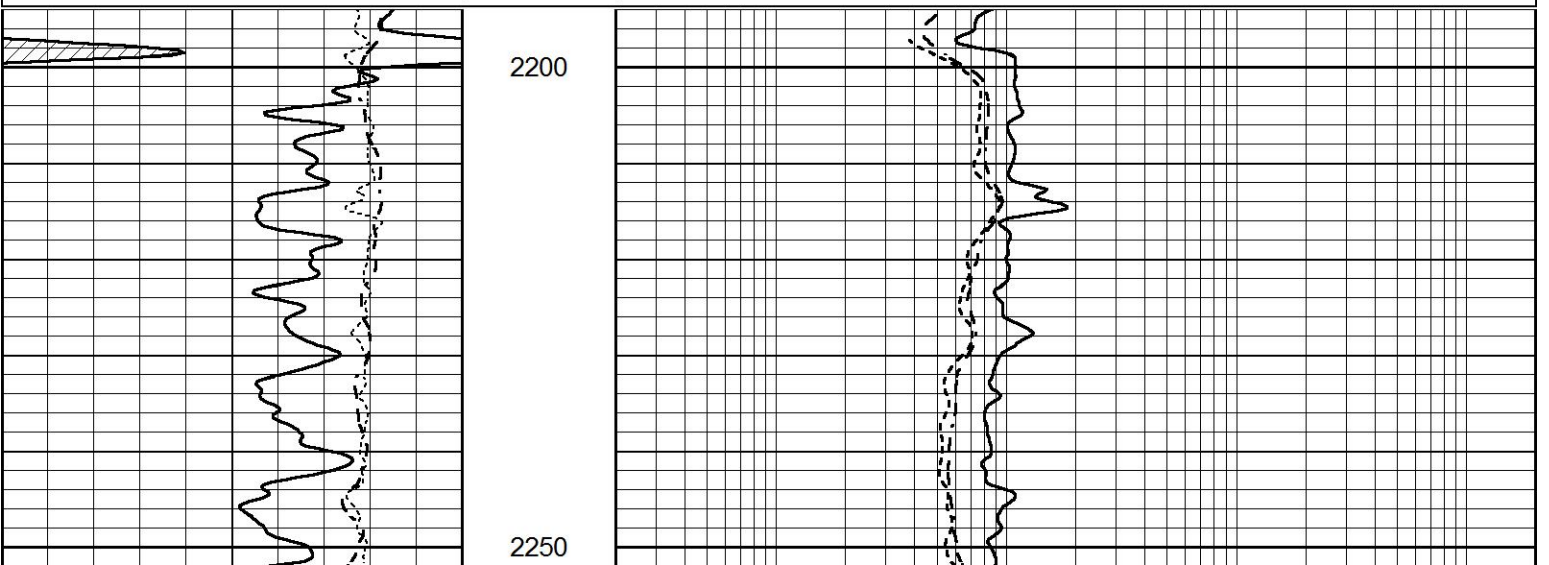


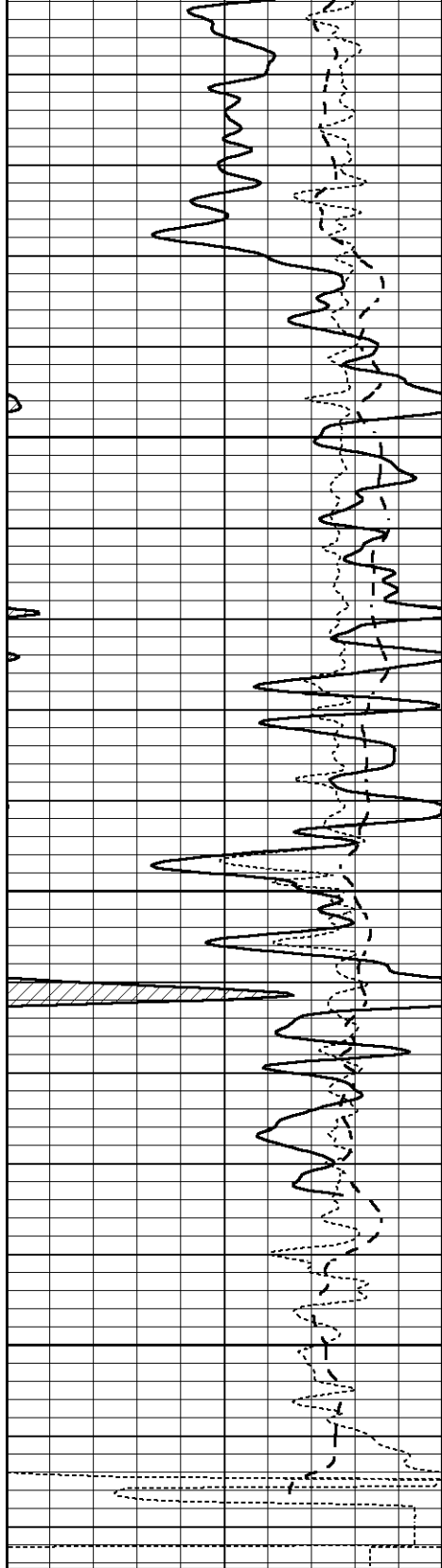


REPEAT SECTION

Database File 3993pe8.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Mon Sep 16 13:54:48 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



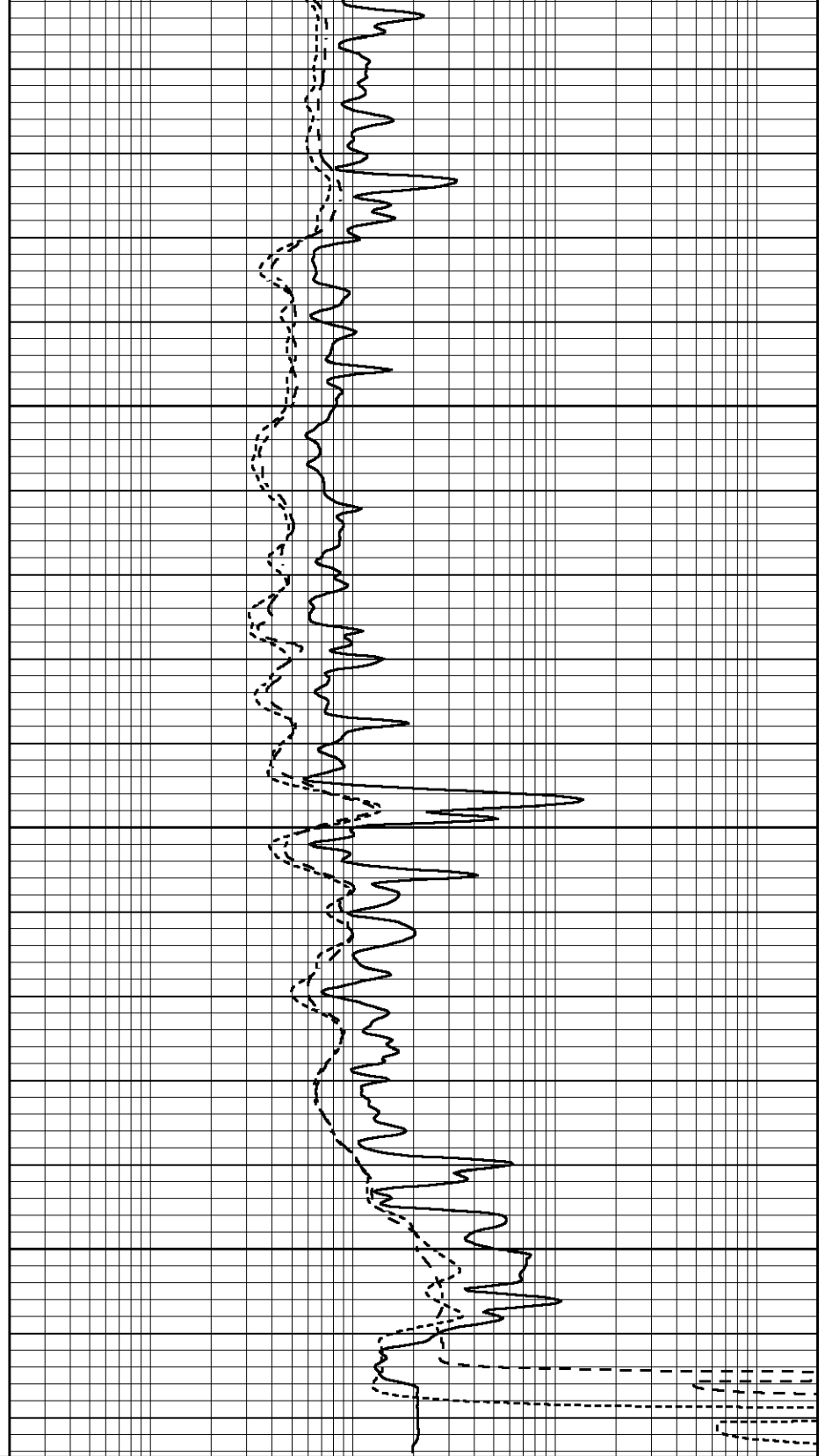


2300

2350

2400

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

Calibration Report

Database File 3993pe8.db
 Dataset Pathname pass2.1
 Dataset Creation Mon Sep 16 13:54:48 2019

Dual Induction Calibration Report

Serial Model:

FW1410 55 Probe

Serial-Model: TW1410-33-Probe
 Surface Cal Performed: Tue Feb 19 11:44:18 2019
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

		Readings			References			Results	
Loop:	Air	Loop	V	Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595	
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251	

Downhole Calibration

		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099	
LL3		7.503	V		1500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3745.000	mmho-m			

After Survey Verification

		Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000	
LL3		0.000	Ohm-m		1500.000	Ohm-m			
		0.000	Ohm-m		20.000	Ohm-m			
		0.000	mmho-m		3745.000	mmho-m			

Compensated Neutron Calibration Report

Serial Number: 080621PMC
 Tool Model: NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 7
 Tool Model: Probe1
 Performed: Tue Feb 19 11:45:10 2019

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps

Geological Wellsite Report

By David Griffin, PG
GGR Inc.
Sept. 19, 2019

Well Info: Burkett E-53
S2 NW SW SW/4
732' fsl, 330' fwl
Section 23-T23S-R10E
Greenwood County, KS
API No. 15-073-24245-00-00

Datum: GL Elev 1399', Svy
RTD: 2419'
5.5" Long String Set

Operator: Cross Bar Energy, LLC
1700 N. Waterfront Pkwy
Bldg 300, Suite A
Wichita, Kansas, 67206
Contact: Andrew Brenging

Contractor: Three Rivers Exploration

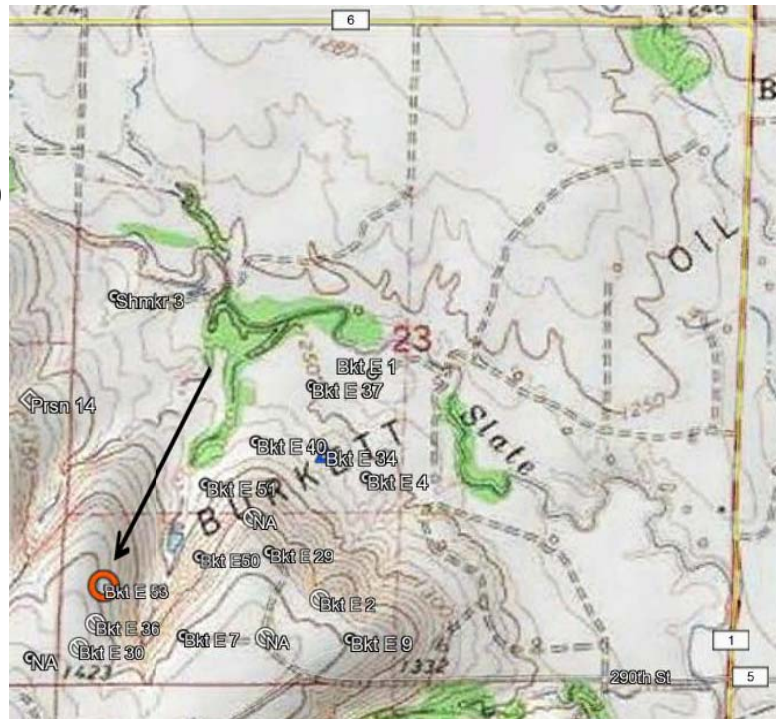
Objective: Bartlesville SS

Drilling Notes:

Sept. 10, 2019, Spud Well
Sept. 10, 2019, Set 200' 8 $\frac{5}{8}$ "
Sept. 11, 2019, Drill Under Surface, 7 $\frac{7}{8}$ " PDC Bit
Sept. 14, 2019, 8 PM, at 2096', Begin Button Bit Trip
Sept. 15, 2019, Drill from 2096' to 2364', Button Bit
Sept. 16, 2019, Drill from 2364' to TD at 2419',
Open Hole Logged by Eli Wireline, Set 5.5" Pipe

Geological Supervision:

David Griffin, RG, GGR Inc. provided wellsite supervision from Sept. 14 thru Sept 16, 2019. Drilling was witnessed from 1900' to TD'. Gas detection was performed from 1900' to TD. Samples were collected and microscopically examined from 1900' to TD. Annular velocity of 115 to 120 ft/min was measured and used for lagging samples.



Geological Datums:

Cross Bar Energy, LLC Burkett E-53 S2 NW SW SW/4 Sec. 23-T23S-R10E					Structural Comparison Wells						
					Cross Bar Energy, LLC Burkett E-51 SE SE NW SW Sec. 23-23S-R10E			Cross Bar Energy, LLC Burkett E-50 SE NE SW SW Sec. 23-23S-R10E			
		Sample Tops GL Elev. 1399'		OH Log Tops GL Elev. 1399'		S C T O R M C P	OH Log Tops GL Elev. 1291'		S C T O R M C P	OH Log Tops GL Elev. 1346'	
Zones of Interest		Depth	Subsea	Depth	Subsea		Depth	Subsea		Depth	Subsea
Douglas SS Porosity		na		1180	+220	+8	1063	+228	+5	1121	+225
Base SS		na		1283	+116	+6	1169	+122	+9	1221	+125
Lansing Group		na		1298	+101	+4	1186	+105	+3	1242	+104
Kansas City Group		na		1570	-171	+4	1458	-167	+12	1505	-159
Base KC		na		1737	-338	-1	1630	-339	+1	1683	-337
Marmaton Group		1855	-456	1854	-455	+0	1746	-455	+6	1795	-449
Cherokee Group		2010	-611	2009	-610	-7	1908	-617	+6	1950	-604
Ardmore LS		2096	-697	2095	-696	-3	1990	-699	+8	2034	-688
Cattleman SS		2111	-712	2110	-711	-3	2005	-714	+5	2052	-706
Base SS		2122	-723	2122	-723	+2	2012	-721	+13	2056	-710
Bartlesville Zone Marker		2197	-798	2196	-797	-9	2097	-806	+7	2136	-790
Bartlesville SS		2244	-845	2243	-844	-7	2142	-851	+20	2170	-824
Bartlesville SS, Main Pay		2253	-854	2252	-853	-15	2159	-868	+19	2180	-834
Base SS		2279	-880	2279	-880	-13	2184	-893	+15	2211	-865
Pn Basal Cgl, (Erosional Miss.)		2372	-973	2372	-973		na			na	
Mississippian (Carbonate)		2389	-990	2386	-987		na			na	
Total Depth		2419	-1020	2418	-1019		2320	-1029		2190	-844

Bartlesville SS Pay Zone Description

2250'-2256', (2260' Sample), **Top of Pay Sand, Fair Potential, 20% SS**, light gray with scattered light brown, very fine grained sub-angular quartz, fair porosity (Φ), fair odor, fair residual oil stain, trace show of free oil (SFO) rinses from cuttings with water, 20% bright fluorescence (BF), strong gas kick of 1302 units; 50% SS, light gray, poor Φ , silty, no show; 30% Siltstone, very light gray and Shale, minor.

2256'-2260', (2265' Sample), **Good Pay Potential, 50% SS**, same as above, good odor, fair residual oil stain, slight SFO rinses from cuttings, good live oil breakout when crushed, 50% BF; falling gas readings; 50% Siltstone, very light gray and Shale, minor.

2260'-2264', (2270' Sample), **Very Good Pay Potential, 70% SS**, light grayish-brown, very fine to fine grained quartz, fair to good Φ , good odor, good oil stain, slight SFO rinses from samples, stained cuttings have good live oil breakout when crushed, gassy with strong gas kick reaching 1410 units, acid treatment breaks oil out of cuttings, moderately calcareous; 70% BF; SS, 10%, very light gray, very fine and silty, tite, no show; 20% Siltstone and shale, very light gray to gray.

2264'-2270', (2275' Sample), **Very Good Pay Potential, 80% SS**, light grayish brown, very fine to fine grained sub-angular quartz, fair to good Φ , very good odor, very good oil stain, fair SFO rinses from cuttings and when cuttings are crushed, gassy with strong gas kick reaching 1553 units, 80% BF; 20% Tite SS, Siltstone and Shale.

2270'-2275', (2280' Sample), **Very Good Pay Potential, 90% SS**, light grayish brown, very fine to fine with minor medium grained sub-angular quartz, fair to good Φ , good odor, very good oil stain, good SFO rinses from cuttings, gassy with strong gas kick of 2,000 units reaching instrument maximum, 90% BF; 10% Tite SS, Siltstone and Shale.

2275'-2281', (2285' Sample), **Good Pay Potential, 70% SS**, light grayish brown, very fine to fine grained sub-angular quartz, fair to good Φ , good odor, good oil stain, fair SFO, 70% BF; SS, 30%, very light gray, vf and silty, tite, no show; 30% Tite SS, Siltstone and Shale.

Other Oil Shows

Cattleman SS

2111'-2114', (2120' Sample), **No Pay Potential, 50% SS**, very light gray, very fine grained sub-angular quartz, poor to fair Φ , no odor, no show, no Flor.; 50% Shale, vari-col grays.

2114'-2118', (2125' Sample), **Marginal Pay Potential, 20% SS**, off white with scattered brown oil stain, very fine to medium grained sub-angular quartz, fair Φ , partly recrystallized quartz, good odor, good show of oil droplets, slight SFO rinses from cuttings, gas kick of 200 units; 60%, SS, very light gray, very fine to fine grained, silty, tite, no show; 20% Siltstone and Shale, very light gray to gray.

2118'-2124', (2130' Sample), **Marginal Pay Potential, 15% SS**, same as above, fair Φ , fair to good odor, good show of brown oil droplets, very slight SFO rinses from cuttings, good gas kick of 530 units; 50%, SS, very light gray, very fine to fine grained, silty, tite, no show; 35% Siltstone and Shale, very light gray to gray.

Summary:

The Cattleman SS had fair to good shows of live brown oil droplets in two porosity streaks from 2111' to 2124', however, it lacks obvious pay zone quality.

The top of the Bartlesville SS was encountered at 2244', a fair oil stain was present from 2244' to 2253', however, it lacked free oil. The porous main pay zone was encountered from 2253' to 2279', with fair to very good oil stain and trace to good shows of light gravity free brown oil. Very strong sustained gas readings reaching 2,000 units were observed. The BV SS is 13' higher in structure than Burkett E-51 and 19' lower than Burkett E-50. The characteristic of the BV pay sand is somewhat similar to that in Burkett E-51.

Saltwater percentages of the Bartlesville main pay sand were evaluated using open hole log data using a spreadsheet format, (modified from Pfeiffer, KGS). Pay zone cutoffs of 12% porosity, 60% SW and an R_w of 0.06 were selected in the calculations, (actual cutoffs may be slightly different). Pay zone was flagged from 2253' to 2278.5' with SW ranging from 38% to 60%. Volumetric analysis indicates that approximately 86,579 stock tank barrels of oil are in place based on 7.5 acre spacing. The spreadsheet is attached for reference.

Recommendations:

Based on the favorable oil and gas shows and SW calculation in the Bartlesville SS, the operator set and cemented 5.5" production casing. It is recommended that perforations be placed in the main pay sand from 2253' to 2277' (GL) and treated similarly as in the successful offsetting producers. The cased hole log should be correlated to the open hole for final selection of perforations.

Respectfully Submitted,



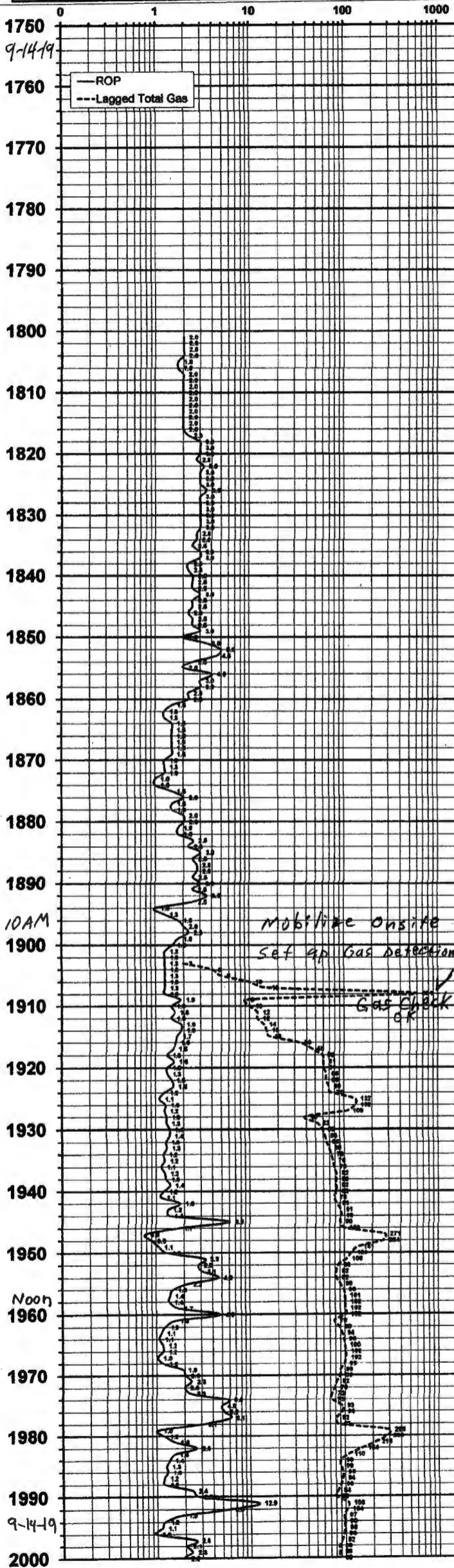
David Griffin, PG
GGR (Griffin Geological Resources), Inc.
Lawrence, Kansas

Attachments: Sample Log, SW and STOOIP Spreadsheet

Cross Bar Energy, LLC
Burkett E-53, S2 NW SW SW/4, Sec 23-T23S-R10E
%SW and STOOIP Estimations, BV SS
By David Griffin, PG

Model = Archie

PARAMETERS	ZN	DEPTH	THK	RT	PHI	RWA	RO	MA	SW	BVW	VSH	PAY	BOI	
X		1	2250	0.5	6.11	15.9%	0.22	1.64	2.52	51.7%	0.082	0.789	0	1.05
Y		2	2250.5	0.5	6.11	15.4%	0.21	1.74	2.47	53.3%	0.082	0.823	0	1.05
A	1	3	2251	0.5	6.2	14.9%	0.20	1.85	2.43	54.6%	0.081	0.860	0	1.05
M	1.8	4	2251.5	0.5	6.39	14.5%	0.20	1.93	2.42	55.0%	0.080	0.862	0	1.05
N		5	2252	0.5	6.65	14.3%	0.20	2.00	2.42	54.9%	0.078	0.798	0	1.05
RW	0.06	6	2252.5	0.5	6.88	14.0%	0.20	2.07	2.41	54.8%	0.077	0.706	0.03	1.05
CTHK	30.5	7	2253	0.5	7.04	13.8%	0.20	2.13	2.40	55.0%	0.076	0.644	0.03	1.05
AVPHI	0.14	8	2253.5	0.5	7.16	13.6%	0.20	2.18	2.40	55.2%	0.075	0.594	0.03	1.05
FTOIL	1.56	9	2254	0.5	7.26	13.6%	0.20	2.17	2.41	54.7%	0.074	0.532	0.03	1.05
PAYFEET	21.5	10	2254.5	0.5	7.37	14.1%	0.22	2.05	2.45	52.7%	0.074	0.503	0.03	1.05
Oil In Place	86,579	11	2255	0.5	7.48	14.8%	0.24	1.88	2.52	50.1%	0.074	0.515	0.04	1.05
Barrels (Apx)		12	2255.5	0.5	7.54	15.1%	0.25	1.81	2.55	49.0%	0.074	0.530	0.04	1.05
7.5 Acre Spacing		13	2256	0.5	7.49	14.5%	0.23	1.94	2.50	50.8%	0.074	0.560	0.04	1.05
P		14	2256.5	0.5	7.4	13.4%	0.20	2.22	2.40	54.8%	0.074	0.624	0.03	1.05
Q		15	2257	0.5	7.34	12.6%	0.18	2.51	2.32	58.5%	0.073	0.712	0.03	1.05
R		16	2257.5	0.5	7.27	12.5%	0.17	2.53	2.31	59.0%	0.074	0.806	0	1.05
DMIN		17	2258	0.5	7.24	13.4%	0.19	2.25	2.38	55.7%	0.074	0.883	0	1.05
DMAX		18	2258.5	0.5	7.23	14.5%	0.22	1.93	2.49	51.7%	0.075	0.919	0	1.05
KB		19	2259	0.5	7.24	15.4%	0.25	1.74	2.56	49.0%	0.076	0.880	0	1.05
TD		20	2259.5	0.5	7.25	15.5%	0.25	1.71	2.58	48.6%	0.076	0.768	0.04	1.05
BHT		21	2260	0.5	7.26	15.0%	0.24	1.83	2.53	50.2%	0.075	0.685	0.04	1.05
ST		22	2260.5	0.5	7.21	14.1%	0.21	2.04	2.44	53.2%	0.075	0.692	0.03	1.05
RMF		23	2261	0.5	7.15	13.3%	0.19	2.26	2.37	56.3%	0.075	0.716	0.03	1.05
RMFT		24	2261.5	0.5	7.05	13.0%	0.18	2.35	2.34	57.7%	0.075	0.708	0.03	1.05
		25	2262	0.5	6.94	13.4%	0.19	2.24	2.36	56.8%	0.076	0.699	0.03	1.05
CUT-OFFS		26	2262.5	0.5	6.85	14.0%	0.20	2.07	2.41	55.0%	0.077	0.686	0.03	1.05
PHICUT	0.12	27	2263	0.5	6.8	14.3%	0.21	1.98	2.44	53.9%	0.077	0.675	0.03	1.05
SWCUT	0.6	28	2263.5	0.5	6.77	14.2%	0.20	2.01	2.42	54.4%	0.077	0.693	0.03	1.05
VSHCUT	0.78	29	2264	0.5	6.78	13.9%	0.19	2.10	2.39	55.7%	0.077	0.707	0.03	1.05
BVWCUT	0.2	30	2264.5	0.5	6.8	13.7%	0.19	2.16	2.38	56.4%	0.077	0.684	0.03	1.05
		31	2265	0.5	6.81	13.7%	0.19	2.14	2.38	56.1%	0.077	0.640	0.03	1.05
Colors:	<input checked="" type="checkbox"/> ON	32	2265.5	0.5	6.76	13.9%	0.19	2.09	2.39	55.6%	0.077	0.604	0.03	1.05
		33	2266	0.5	6.73	14.0%	0.20	2.06	2.40	55.3%	0.078	0.606	0.03	1.05
		34	2266.5	0.5	6.75	14.2%	0.20	2.00	2.42	54.5%	0.078	0.642	0.03	1.05
STOOIP=		35	2267	0.5	6.8	14.8%	0.22	1.88	2.47	52.6%	0.078	0.678	0.04	1.05
		36	2267.5	0.5	6.83	15.2%	0.23	1.79	2.51	51.1%	0.078	0.689	0.04	1.05
Stock tank original oil in place		37	2268	0.5	6.88	14.6%	0.22	1.91	2.46	52.8%	0.077	0.691	0.03	1.05
		38	2268.5	0.5	6.9	12.9%	0.17	2.40	2.32	59.0%	0.076	0.711	0.03	1.05
		39	2269	0.5	6.88	10.6%	0.12	3.39	2.12	70.2%	0.075	0.737	0	1.05
		40	2269.5	0.5	6.92	8.8%	0.09	4.74	1.96	82.7%	0.073	0.751	0	1.05
		41	2270	0.5	6.99	8.1%	0.08	5.55	1.89	89.1%	0.072	0.749	0	1.05
		42	2270.5	0.5	7.1	8.4%	0.08	5.19	1.93	85.5%	0.072	0.737	0	1.05
		43	2271	0.5	7.31	9.7%	0.11	4.04	2.05	74.3%	0.072	0.711	0	1.05
		44	2271.5	0.5	7.61	11.5%	0.15	2.95	2.24	62.3%	0.072	0.686	0	1.05
		45	2272	0.5	7.94	13.5%	0.22	2.20	2.44	52.6%	0.071	0.682	0.03	1.05
		46	2272.5	0.5	8.28	15.3%	0.28	1.77	2.62	46.2%	0.071	0.670	0.04	1.05
		47	2273	0.5	8.48	16.0%	0.31	1.62	2.70	43.8%	0.070	0.646	0.04	1.05
		48	2273.5	0.5	8.57	15.8%	0.31	1.66	2.69	44.0%	0.070	0.640	0.04	1.05
		49	2274	0.5	8.72	15.5%	0.30	1.72	2.67	44.4%	0.069	0.620	0.04	1.05
		50	2274.5	0.5	8.8	15.7%	0.31	1.69	2.69	43.8%	0.069	0.606	0.04	1.05
		51	2275	0.5	8.78	16.5%	0.34	1.53	2.77	41.8%	0.069	0.662	0.05	1.05
		52	2275.5	0.5	8.7	17.7%	0.39	1.35	2.88	39.4%	0.070	0.726	0.05	1.05
		53	2276	0.5	8.55	18.5%	0.41	1.25	2.94	38.2%	0.071	0.714	0.06	1.05
		54	2276.5	0.5	8.31	18.4%	0.40	1.26	2.92	38.9%	0.072	0.708	0.06	1.05
		55	2277	0.5	8.13	17.6%	0.36	1.37	2.83	41.0%	0.072	0.752	0.05	1.05
		56	2277.5	0.5	7.97	16.3%	0.30	1.58	2.69	44.4%	0.072	0.738	0.05	1.05
		57	2278	0.5	7.78	14.6%	0.24	1.91	2.53	49.6%	0.072	0.644	0.04	1.05
		58	2278.5	0.5	7.49	12.9%	0.19	2.38	2.36	56.3%	0.073	0.585	0.03	1.05
		59	2279	0.5	7.07	11.4%	0.14	2.97	2.20	64.9%	0.074	0.625	0	1.05
		60	2279.5	0.5	6.53	9.8%	0.10	3.96	2.02	77.9%	0.076	0.713	0	1.05
		61	2280	0.5	6.01	8.3%	0.07	5.26	1.85	93.6%	0.078	0.790	0	1.05



Lithology	Shows
	Operator: Cross Bar Energy, LLC Drig Contr: Three Rivers Exploration API No.: 15-073-24245-00-00
	7 7/8" PDC Bit, 6 Blade
	Marmaton Grp 1855 (-456) using ROP 1854 (+55) OH Log
	Altamont LS start 10' smp/s
	sh, bk LS, off-wh to tn-gy, vf-fxln, prp
	sh, gy, silty w/ sltst inter beds
	sh & sltst, AN
	coal sh & sltst, Hgy
	ss, vlt gy, vfgn, prp, NS Ls, dk-udgy, fxln, min bk (organics?) sh, bk?
	LS, lt tn to o-wh, lt gy, vf-fxln, prp Pawnee LS
	LS sh, varicol
	LS sh, bk
	sh, lg-dg, pty silty
	LS, lt gy, gy, fxln, fosl
	sh, grays

9-14-19
 2000

Depth	David Griffin, GGR Inc., Lawrence, KS		Lithology	Shows	Well: Burkett E-53	Pg. 2 of 3
	Penetration Rate (ROP)				Location: S2 NW SW SW/4, 732' fsl, 330' fwl, Sec. 23-T23S-R10E, GW Co.	Datum/Elev. 1399 GL
	Min./Foot	Lagged Total Gas			Sample Descriptions (Lagged)	Tops/Remarks
2000					LS, lt gy to gy, fosl	
7-14-19 2PM					sh, bk	
2010					LS, tn to lt gy	Cherokee
					sh, bk	2010(-611)
2020					SS, vlg, vf-f gm, pr-fr φ, cln, pty lmy, LS, tn, interbed. NS, NO Flr	2009(-610) OH Log Squirrels S 2005-12, 7'
2030					sh, lt gy to gy, silt, mica, carb (smc)	
4PM						
2040					SS, 100%, vlg, vf-f gm, pr φ, NS	
2050					sh, gy to vdg	
2060					LS, dk to vdg, sdy	
2070					sh, lg to dg	
6PM					sh, gy to dgy, pty SMC	
2080						
2090					Bevier coal	2096' Bottom Bit 77'
9-5-19 2100					LS	Ardmore LS
2AM					V-shale + blk shale, pty coaly	2096(-617) 2095(-690) OH Log V-shale, 2105
2110					SS, vlg, vf-f gm, pr-fr φ, NS, silt - 5' sample	Cattelman SS, 11'
					SS, silt, blk oil stn, vf-f gm, min med gm pty re-coys qtz, fr φ, sli-fr show oil droplets bk out w/crushed sli calc. gd odor	2111(-712) 2110(-711) OH Log to 2122
2120					silt, vlg	
2130					sh, vlg, gy	
4AM					sh, bk	
2140					silt, min sh	
2150					sh, lg - dg mostly	
6AM					coal	
2170					silt	
2180					sh, vlg - vdg	
8AM					sh, bk	
2190					sh, grays	
2200					sh, bk	Bartlesville Zone 'X'
10AM					silt, vlg + sh, grays interbed. pr φ, NS	2197(-798) 2196(-797) OH Log
2210					AA	
2220					silt + sh, hard	
Noon						
2230					silt + sh, silty, hard	
2240					SS, 20, vlt gy, silt, blk, vf, pr-fr φ, silty, sli. odor, fr recd stn, No c. oil; SS, so, vlg, silt NS, silt, mica, all SS is calc. Moder.	BV SS
9-5-19 2250						2244(-845) 2243(-844) OH Log

Depth	David Griffin, GGR Inc., Lawrence, KS		Lithology	Shows	Well: Burkett E-53	Pg. 3 of 3
	Penetration Rate (ROP)				Location: S2 NW SW SW/4, 732' fsl, 330' fwl, Sec. 23-T23S-R10E, GW Co.	Datum/Elev. 1399 GL
	Min./Foot	Lagged Total Gas			Units	Tops/Remarks
2250	0 1 10 % Flr 100 1000				2250-56: SS, 20, ltg-bn, vf, fr φ, fr odor FR F. Oil, calc, acid lift oil, fr red stn sfts; 50, ulg, NS	Begin 5' Smp/ls BVSS Pay 26'
9-15-19 2 PM					2256-60: SS, 50, AA, S/SFO Rns, Gd Odor fr red stn sfts; 30, NS	2253 (-854) to 2279
2260					2260-64: SS, 70, ltg-bn, vf, fr φ, fr-gd φ, gd red stn, gd odor, sli SFO Rns, mica, cak, fri, gassy	2252-2279 OH Log
2270					2264-70: SS, 80, AA, vgd red stn, fr SFO Vgd odor, gassy	Rec. PF's 2353 to 2377'
2280					2270-75: SS, 90, ltg-bn, vf-f-med grn, fr-gd φ, Vgd stn, Gd Odor, Gd Sh Free Oil Rns, calc, gassy	
4 PM					2275-81: SS, 70, vf-f, fr-g φ, gd stn fr SFO, Gd odor	
2290					2281-87: SS, 40, AA, carryover?	
2300					2287-91: SS, 20, AA, Carryover?, sh, bk sh, ulg-dg	
6 PM					sh, vari-col gy's, gen, bk	
2310					coal	
8 PM					sh, gy to bk	
2320					coal	
2330					coal sh, ulg-bk	
2340					sh, gy, hrd LS, vdg to gy,	
2350					sh coal sh, lg-dg sh, bk	
2360					sh, bk sh, gy's	
Midnite 9-16-19					congl, cht, 25-50% shrp, ltgy, wh, clngs LS f Dol clasts, ss, silt, shaley, NS No Flr, No odor	Pn Bsl Cgl 2372 (-973) OH Log same
2370					LS, th w/gy pyr mottlg, f-m xltn, pr ixp, dull minr) flr	Miss LS (TOP) 2389 (-990) 2386 (-987) OH Log
2380					LS, AA, mucs xltn, fossil frag, v min bn organics?	
2390					LS, tn, vf-CS xltn, pr φ, fossil occ	
4 AM 2400						TD 2419 (-1020)
2410						
6 AM 2420						
2430					Open Hole Logged 12-4 PM, 9-16-19 Eli Wireline	
2440						
2450						
2460						
2470						
2480						
2490						
2500						



**Sonic Cement
Bond Log**

API No.

Company **Cross Bar Energy, LLC.**

Well **Burkett E #53**

Field **Burkett**

County **Greenwood** State **Kansas**

Location

732' FSL & 330' FWL

Other Services
Perforate

Sec: **23** Twp: **23S** Rge: **10E**

Permanent Datum Ground Level Elevation 1394
 Log Measured From Kelly Bushing 5.5 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elevation
 K.B. 1399.5
 D.F. 1397.5
 G.L. 1394

Run Number	One	
Date Survey	10/2/2019	
Date Cementing	9/17/2019	
Type Cementing Operation	Primary	
Depth Driller	2419	
Depth Logger	2383	
Logged Interval	2382 to 90	to
Casing Driller	5.5 @ TD	@
Float Collar -- D.V. Tool	////	1424
Squeeze Depth	////	
Amount & Type Cement	////	
Amount & Type Admix	////	
Type Fluid In Hole	Water	
Fluid Level	90	
Salinity PPM CL	////	
Weight lb/gal -- Vis.	////	////
Approx. Logged Cement Top		
Calculated Cement Top		
Max. Hole Temperature	////	
Tool No.	DIG01	
Spacing Recorded	3-5	
Equipment -- Location	01	Pratt
Recorded By	N. Schmeidler	
Witnessed By	Adrew Brensing	

<<< 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

Thank you for using Excel Wireline (620) 388-5676

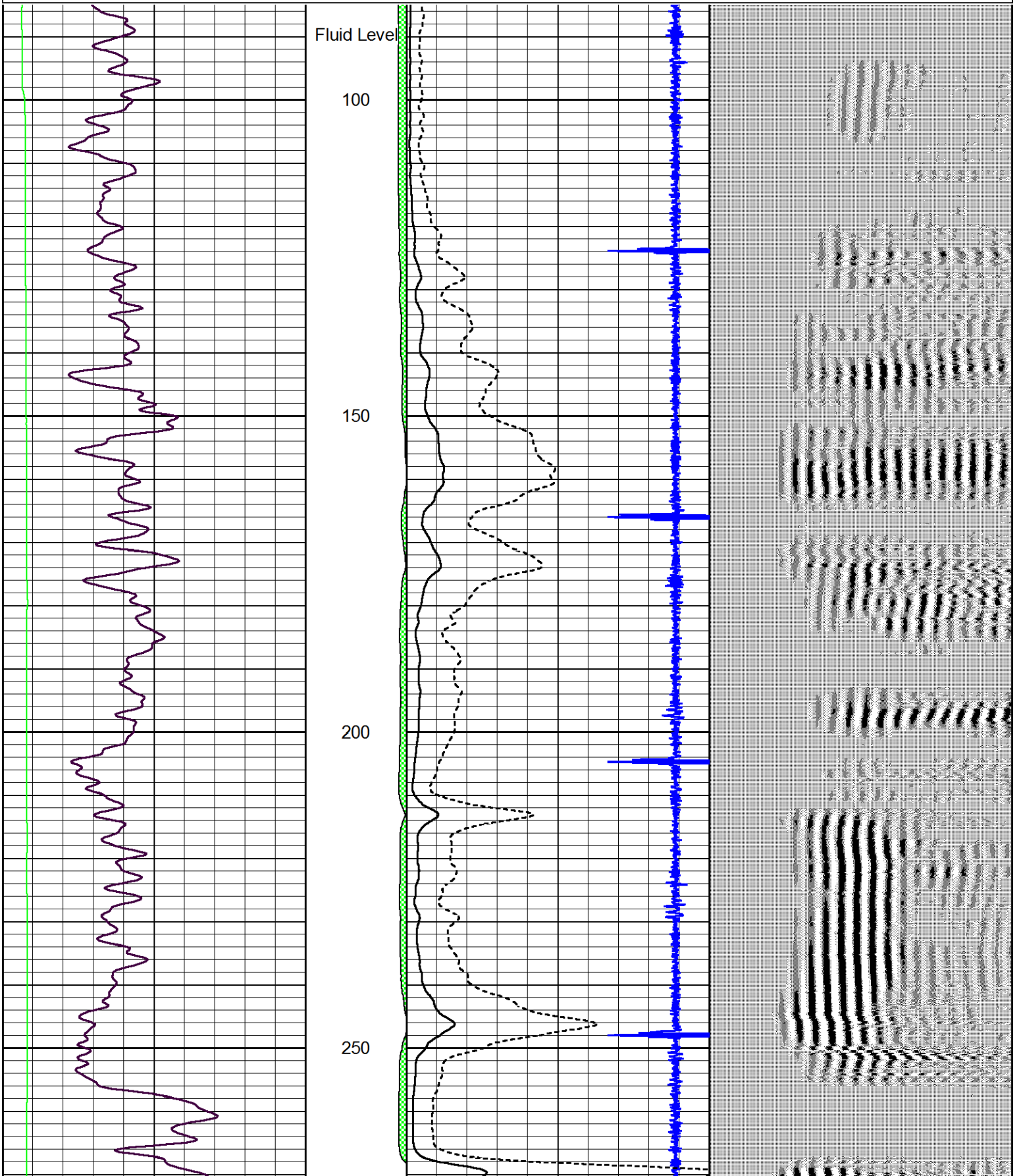
Cassday
 20.25 E on 150th to Q Rd
 1 S to 290 Rd, W to CG
 Stay SW to Rd N to well

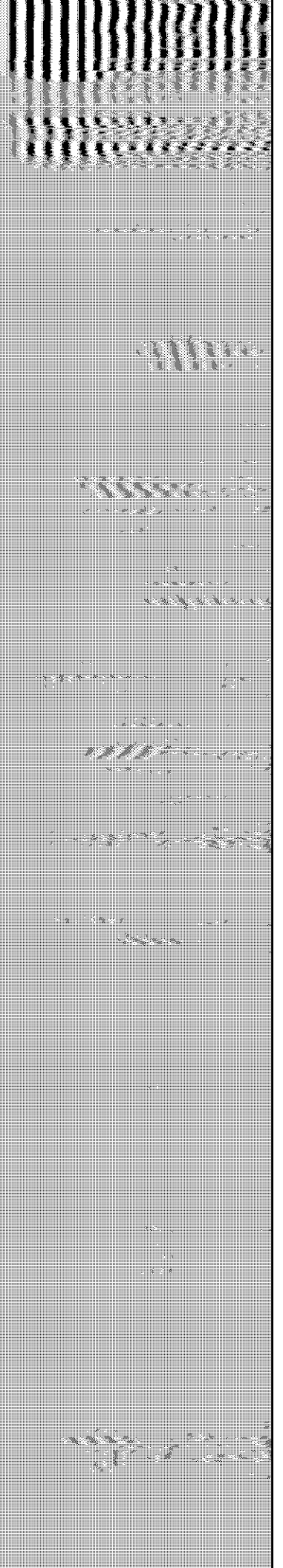
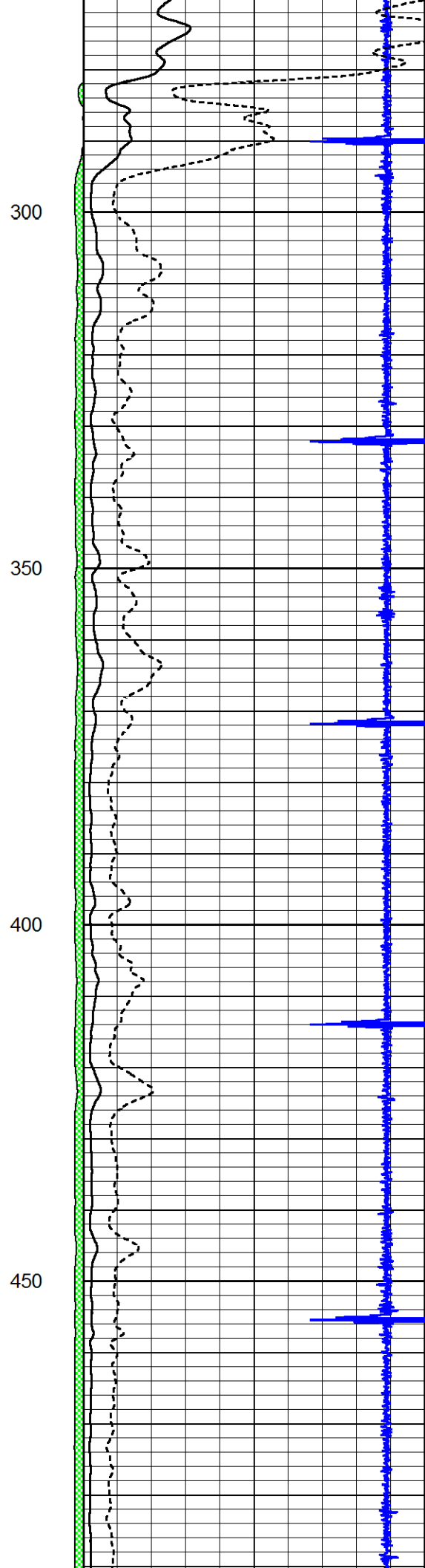
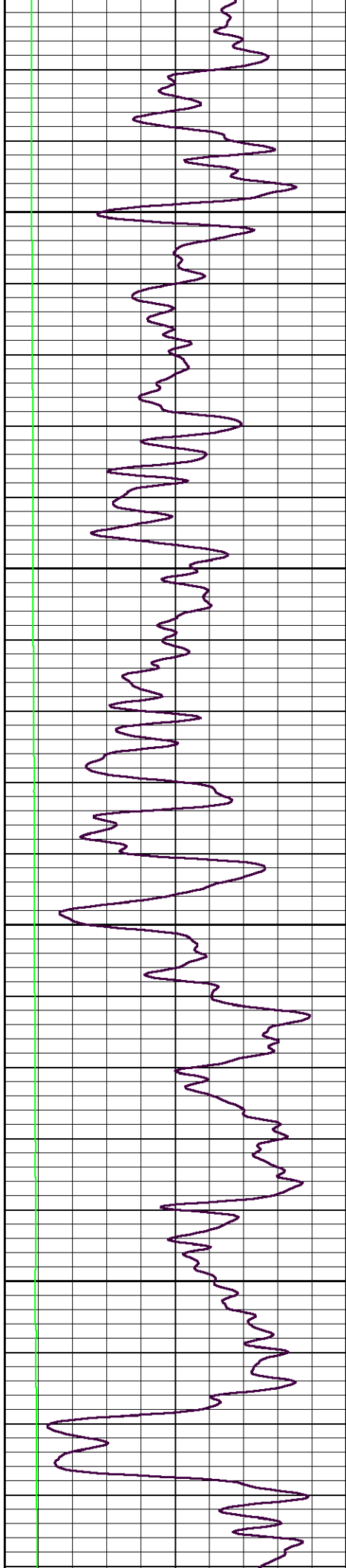


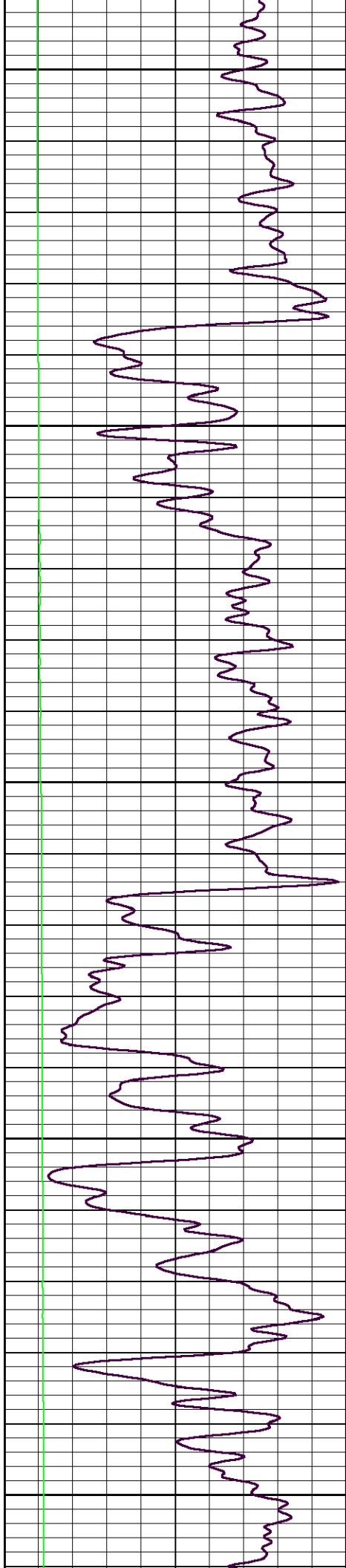
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 Dataset Pathname grcbl/pass3
 Presentation Format excel
 Dataset Creation Wed Oct 02 15:21:40 2019
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	8	Casing Collars	-1	200	Variable Density (usec)	1200
0	LTEN (lb)	2000	(mV)		Amplitude				
			-100 10		Amplified Amplitude (mV)				







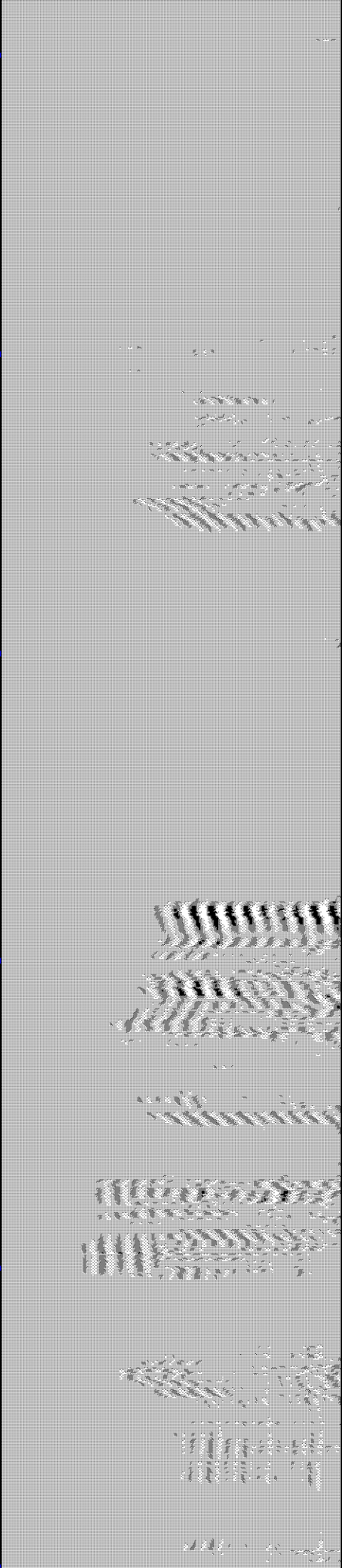
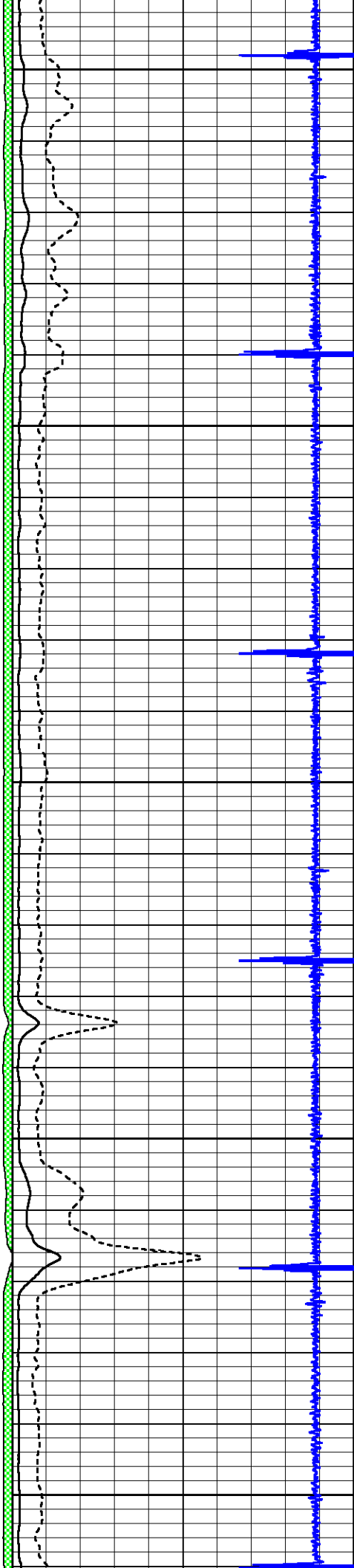
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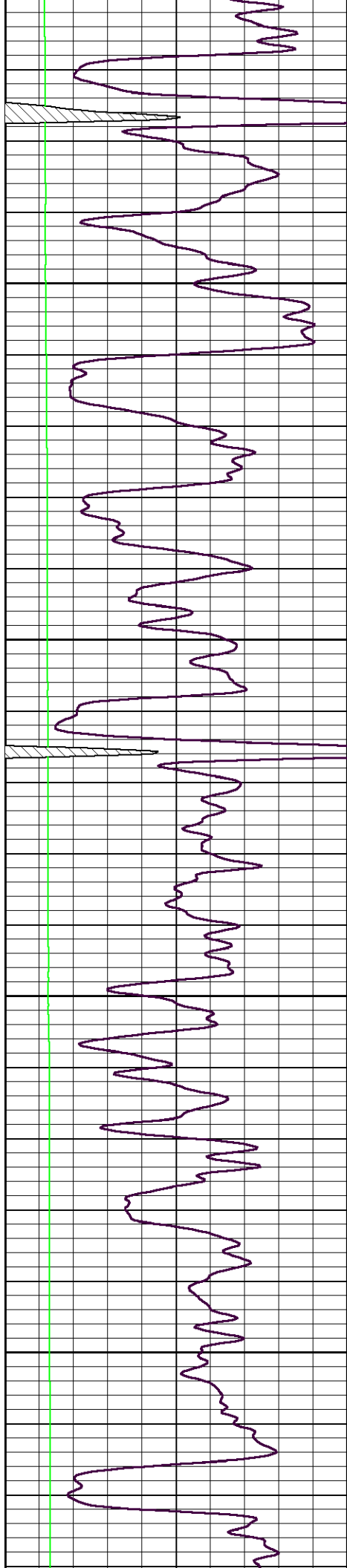
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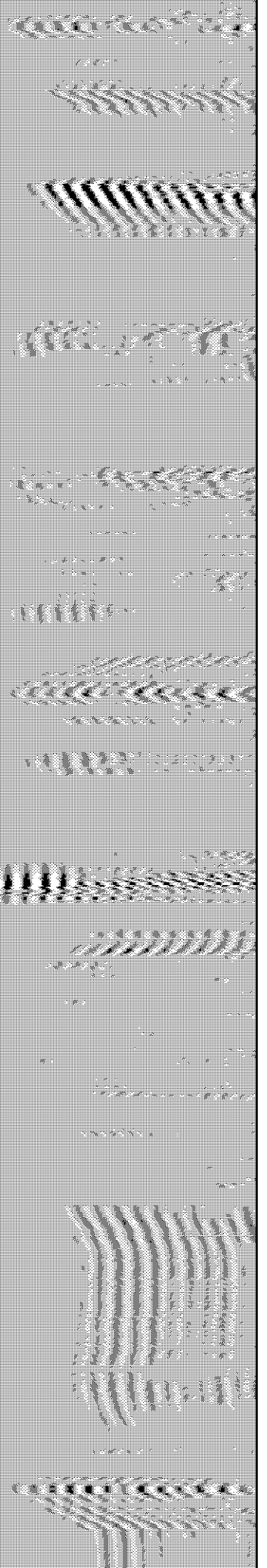
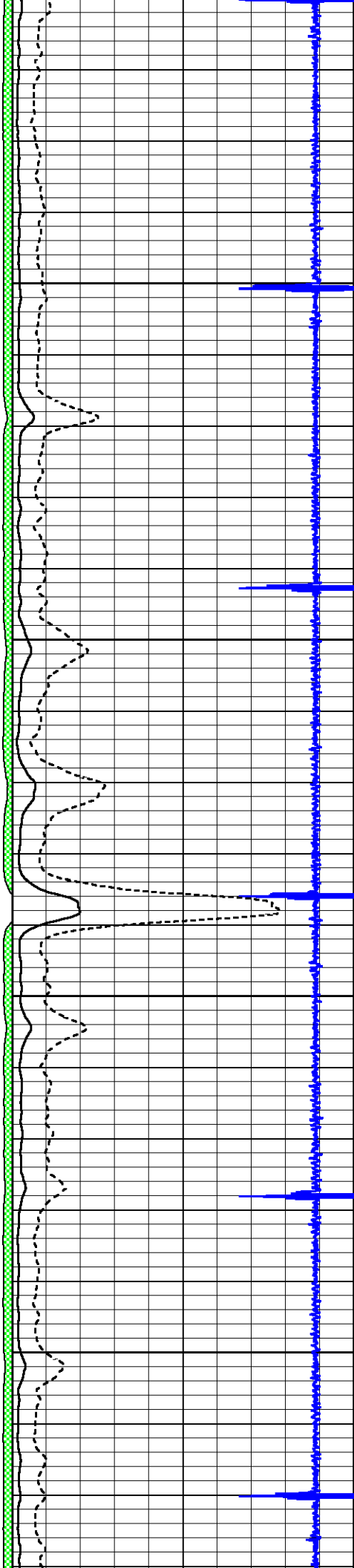


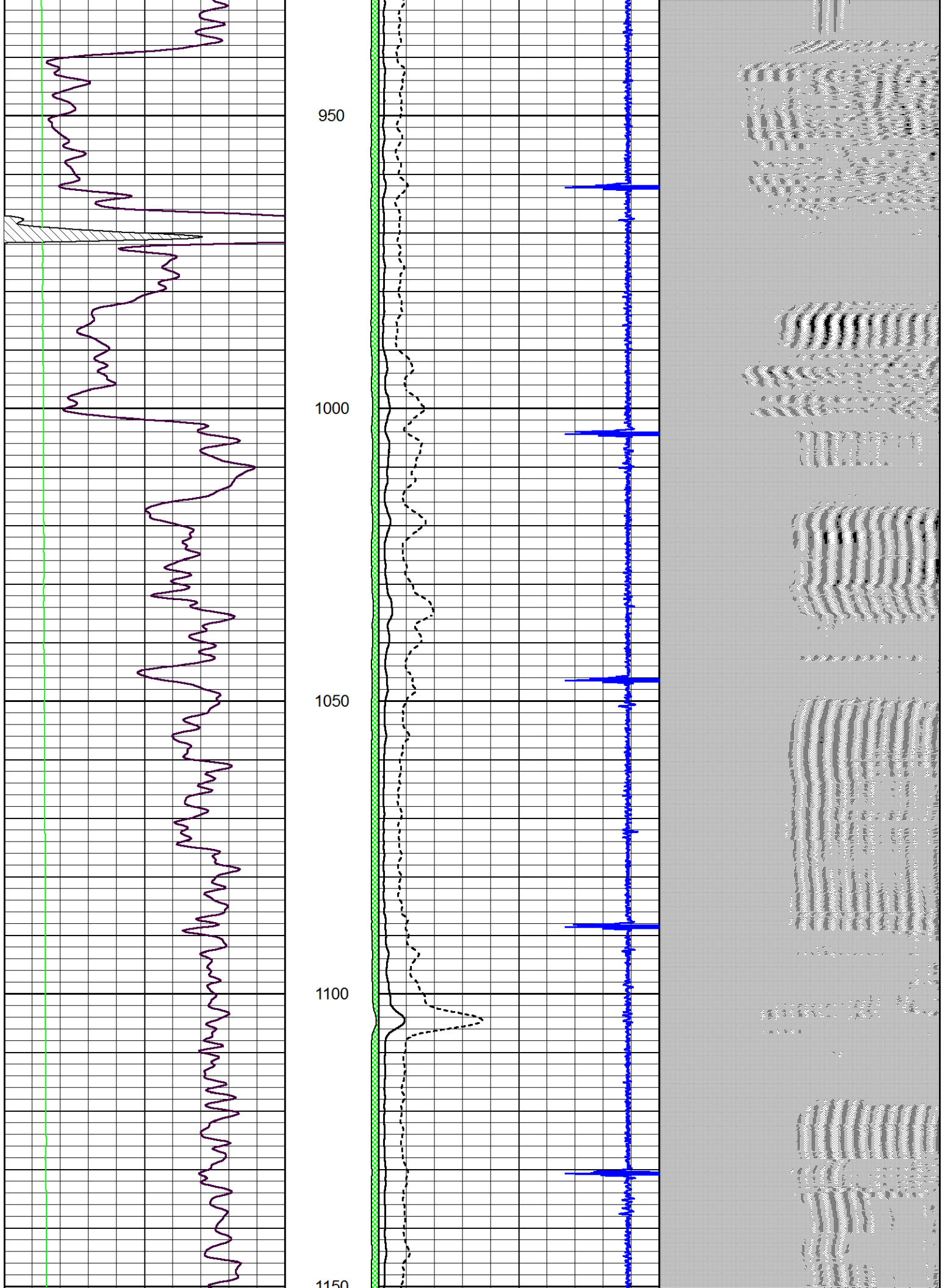
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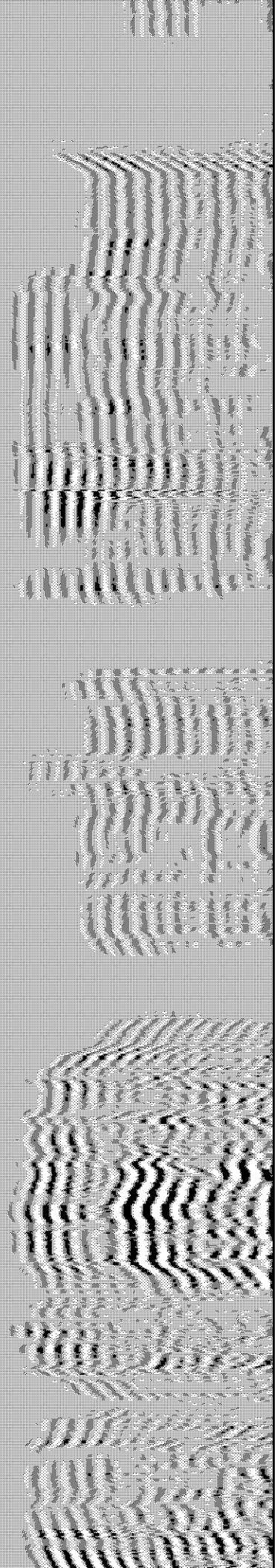
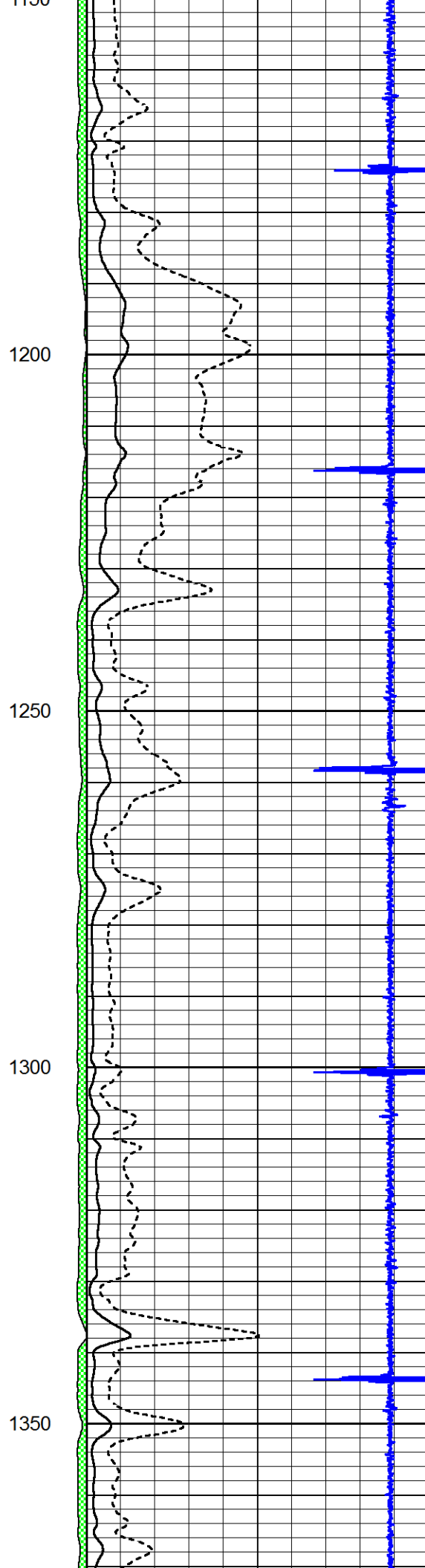
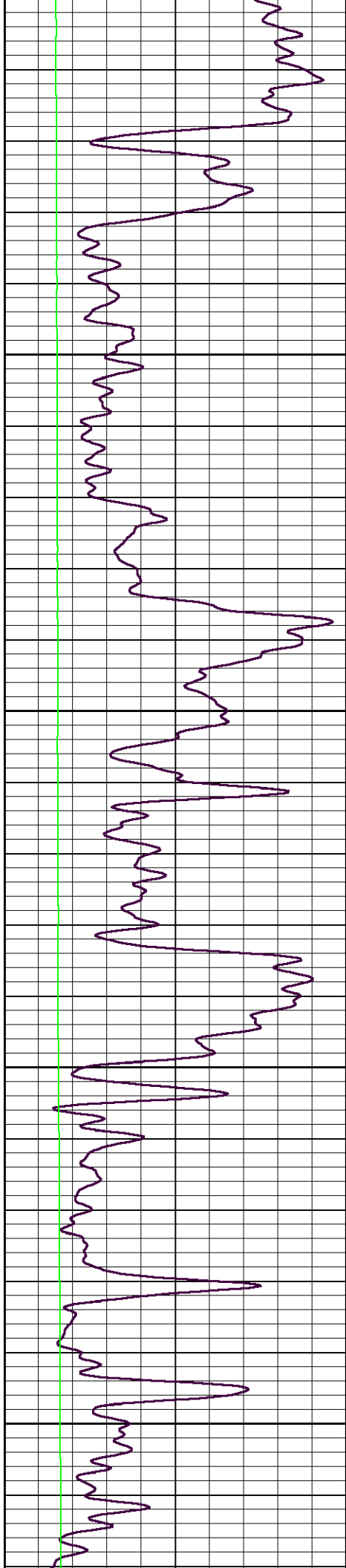
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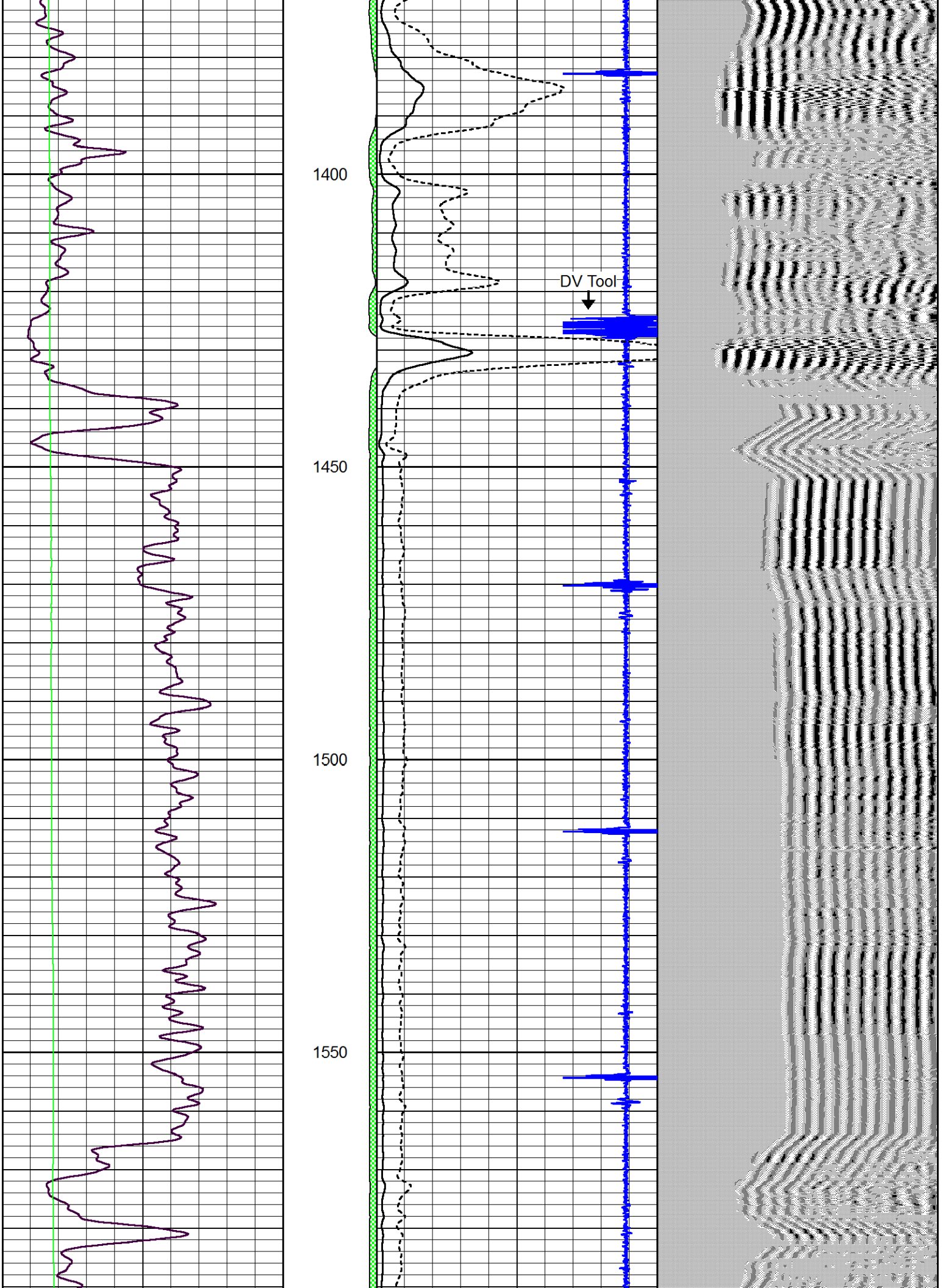
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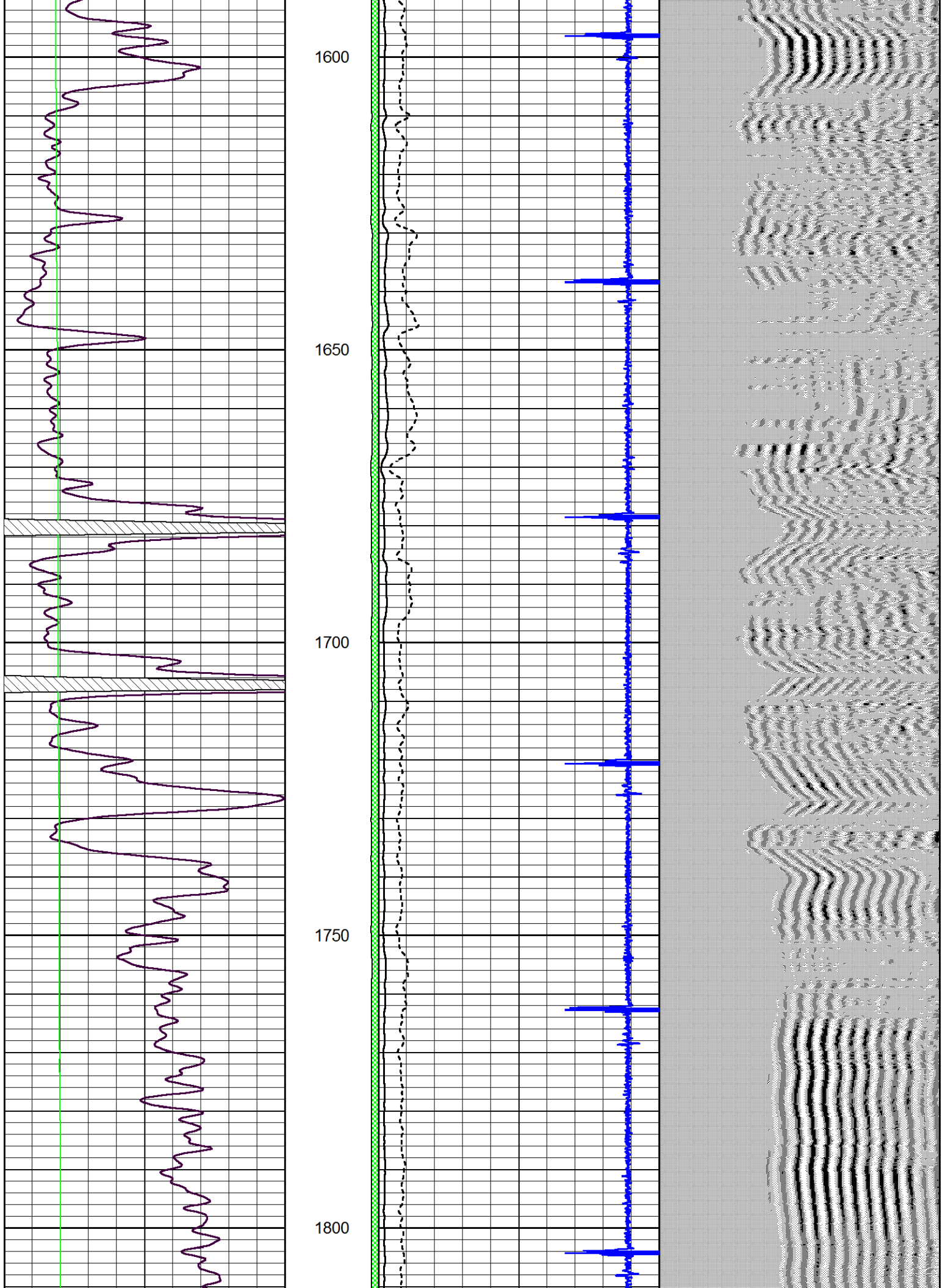
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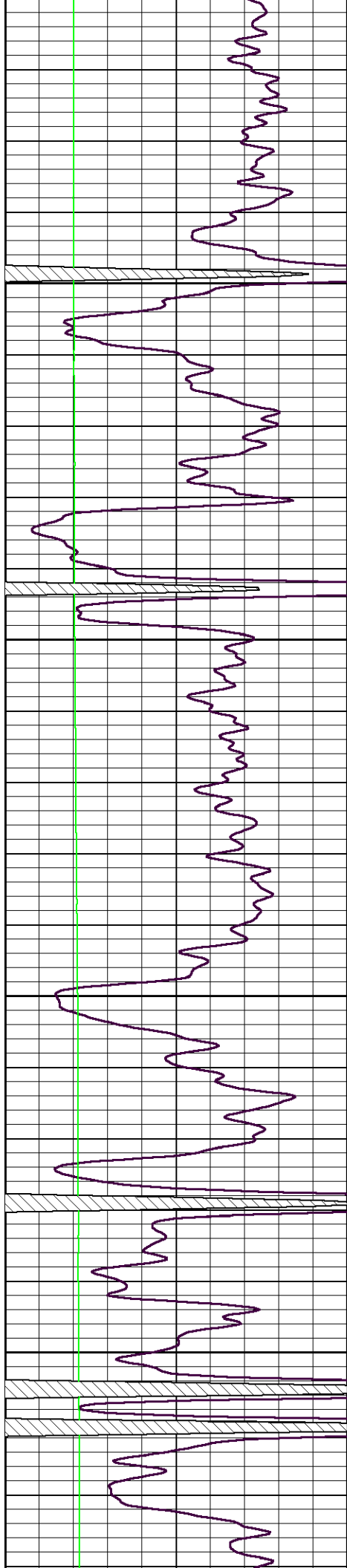










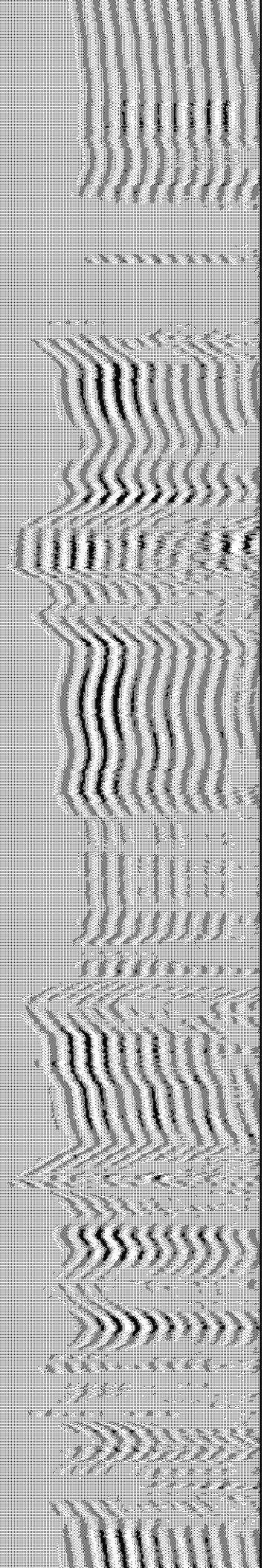
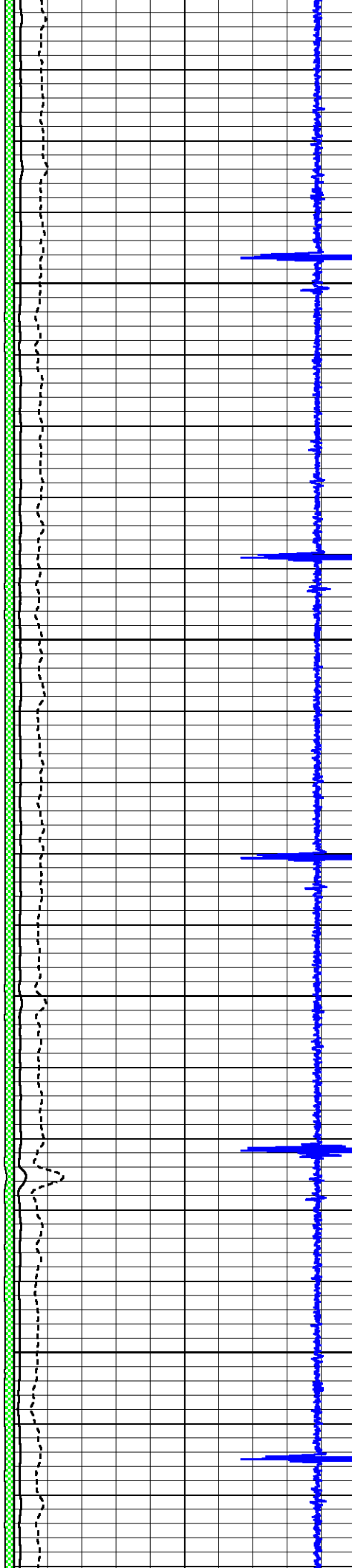


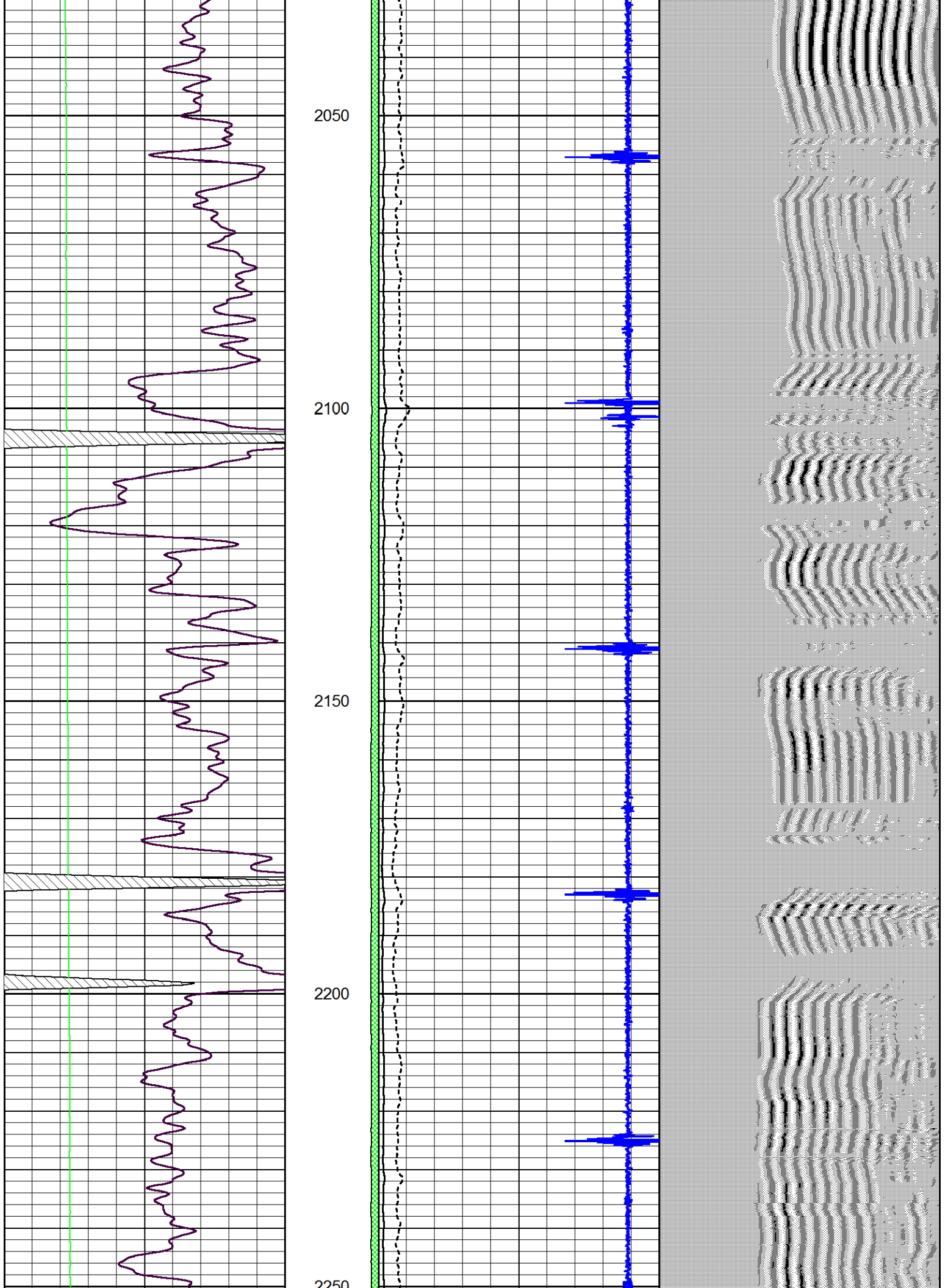
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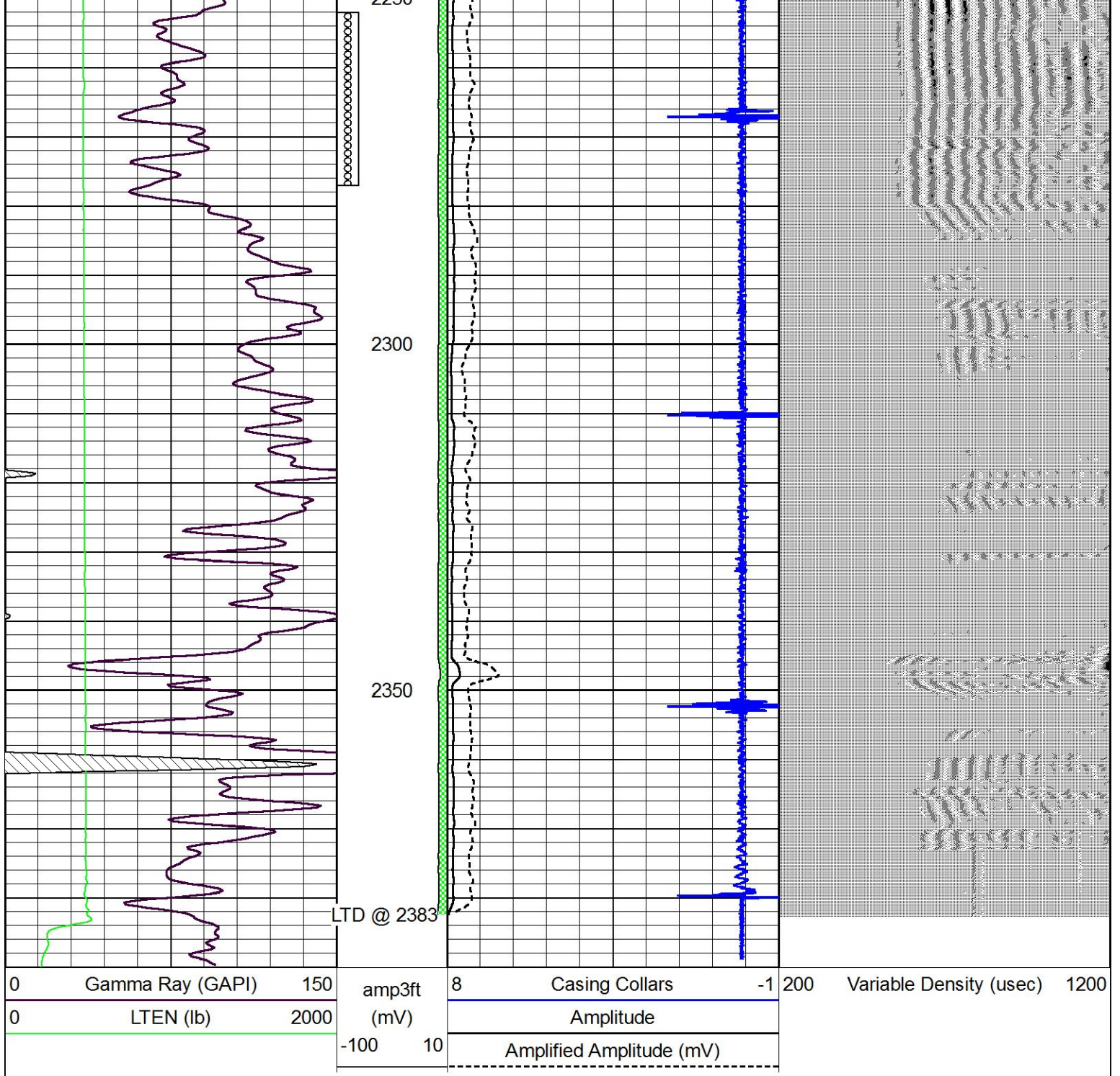
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Repeat Section

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 Presentation Format excel
 Dataset Creation Wed Oct 02 15:15:47 2019
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	8	Casing Collars	-1	200	Variable Density (usec)	1200
0	LTEN (lb)	2000	(mV)		Amplitude				
			-100	10	Amplified Amplitude (mV)				

