

**COMPENSATED  
DENSITY/NEUTRON  
PE LOG**

Company RANEY OIL COMPANY, LLC.  
Well HOUSE #1 C  
Field CABIN VALLEY  
County COWLEY  
State KANSAS

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Field CABIN VALLEY  
County COWLEY State KANSAS

Location: API #: 15-035-24740-0000  
1410' FNL & 725' FEL  
SEC 31 TWP 33S RGE 6E  
Permanent Datum GROUND LEVEL Elevation 1172  
Log Measured From KELLY BUSHING 9' A.G.L  
Drilling Measured From KELLY BUSHING  
Other Services  
DIL  
MEL/SON  
Elevation  
K.B. 1181  
D.F. 1179  
G.L. 1172

Date	7/18/21
Run Number	TWO
Depth Driller	3248
Depth Logger	3246
Bottom Logged Interval	3222
Top Log Interval	1300
Casing Driller	8 5/8" @ 342'
Casing Logger	342
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/58
pH / Fluid Loss	9.5/8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.90 @ 80F
Rmf @ Meas. Temp	.67 @ 80F
Rmc @ Meas. Temp	1.08 @ 80F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.65 @ 110F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	110F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	ROGER MARTIN

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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**

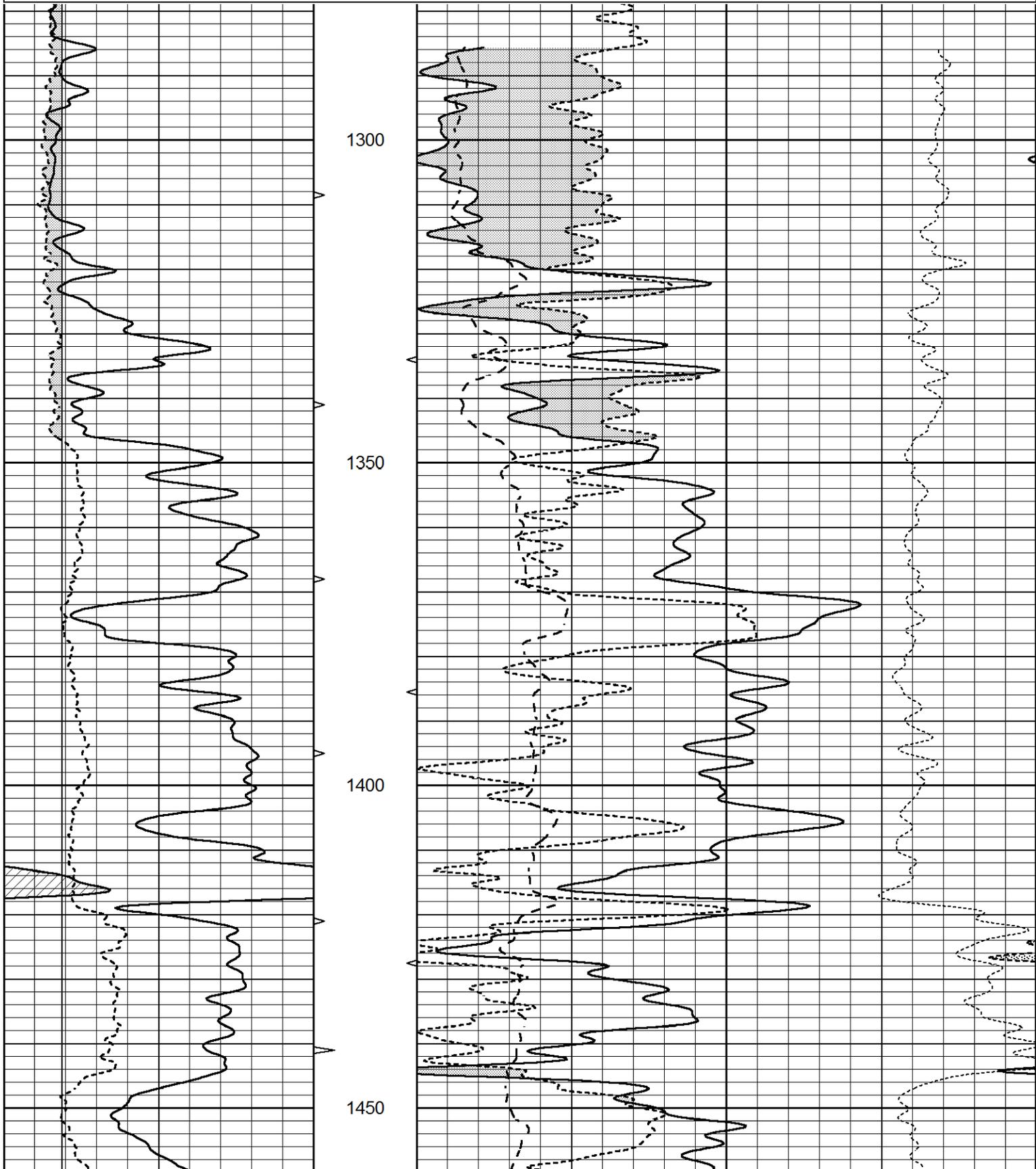
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. ( 785 ) 628-6395  
DIRECTIONS  
ARKANSAS CITY, - EAST TO GROUSE CREEK RD. - NORTH & EAST TO 236TH RD  
WEST 3/4 MILES - NORTH INTO AT DOUBLE GATES

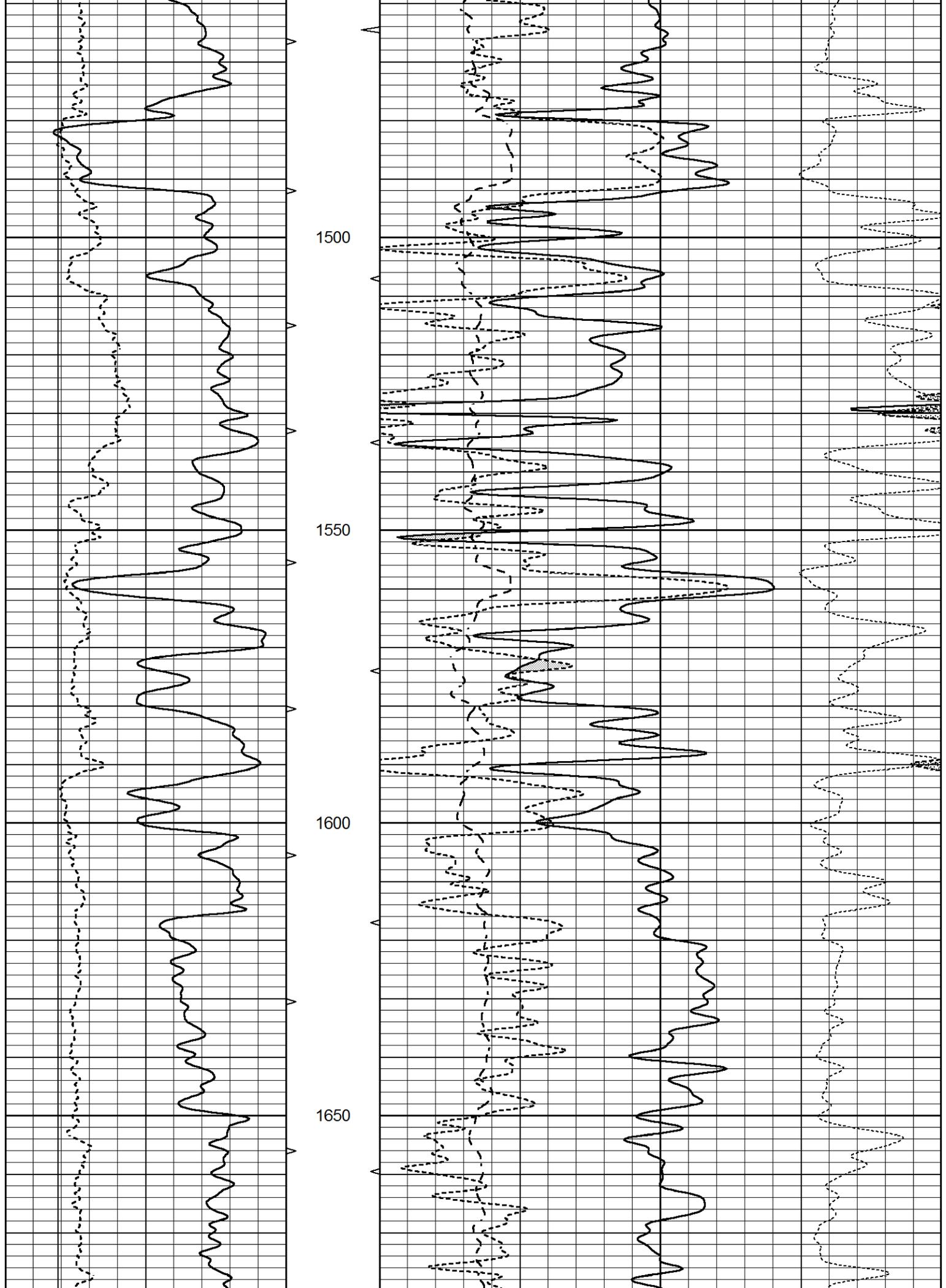


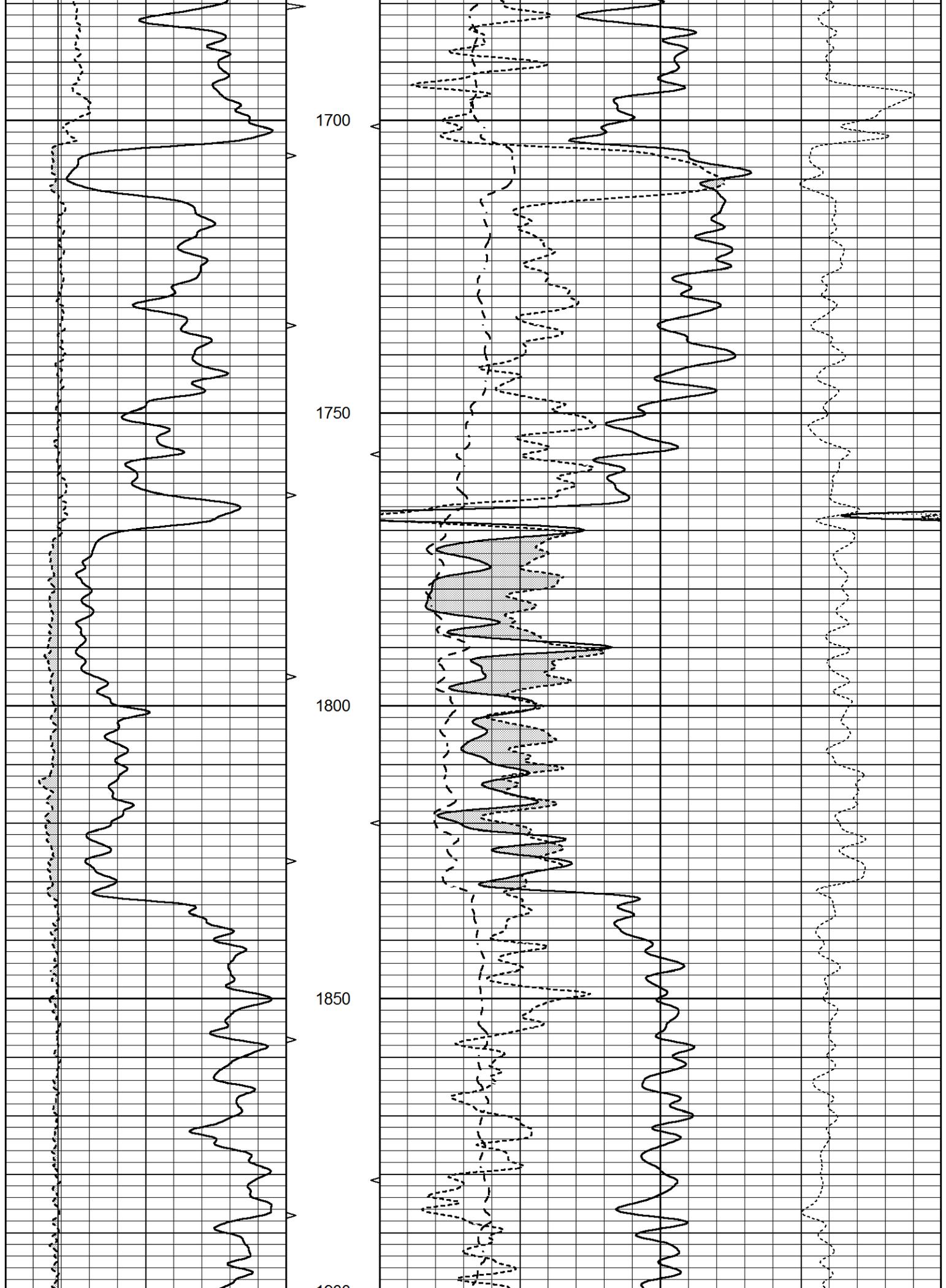
**MAIN SECTION**

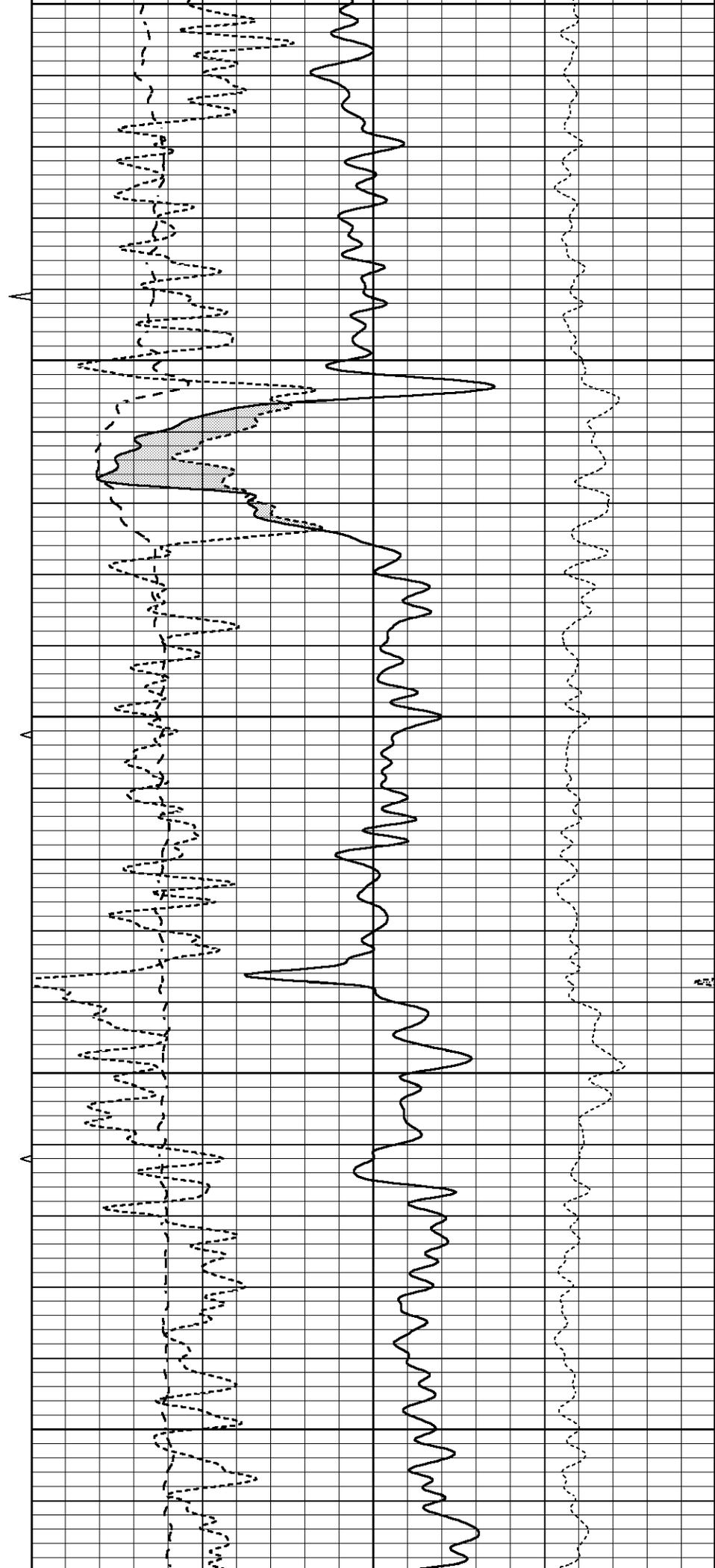
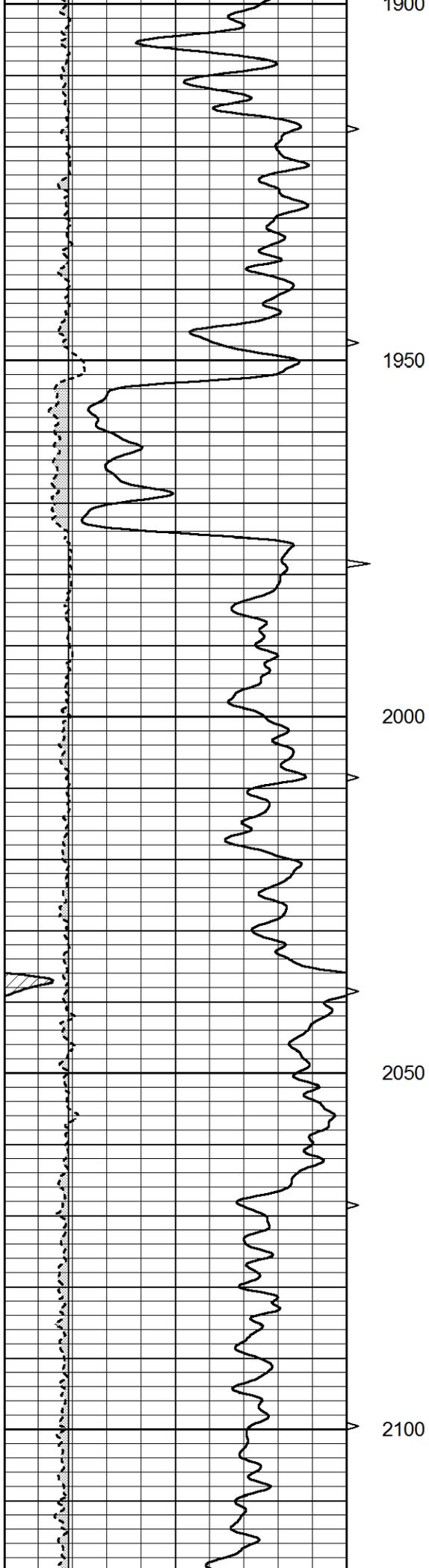
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 Charted by Depth in Feet scaled 1:240

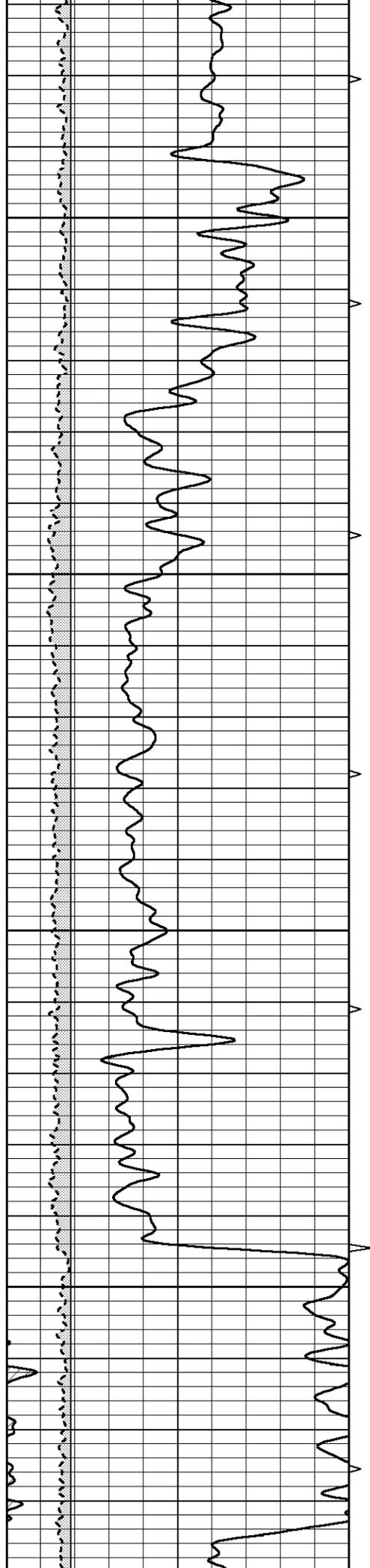
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
-----			TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25
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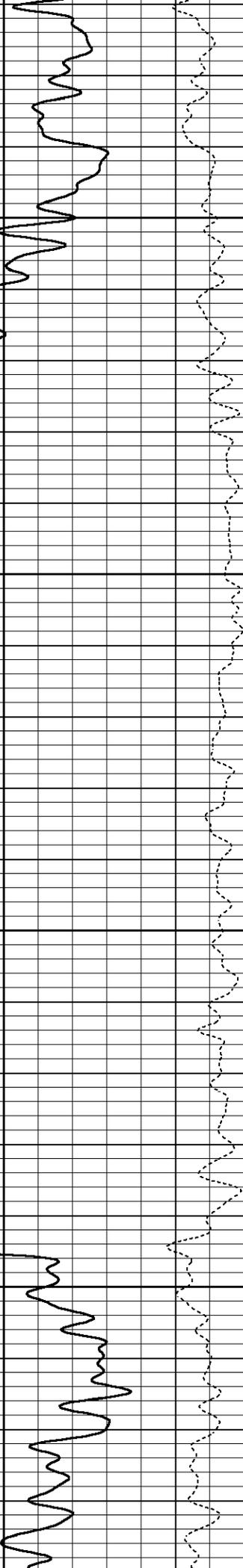
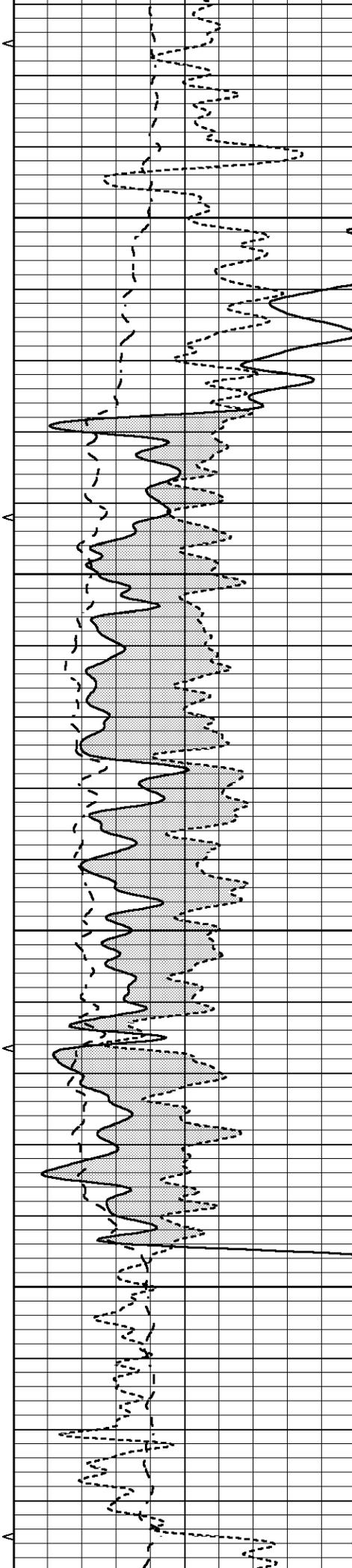


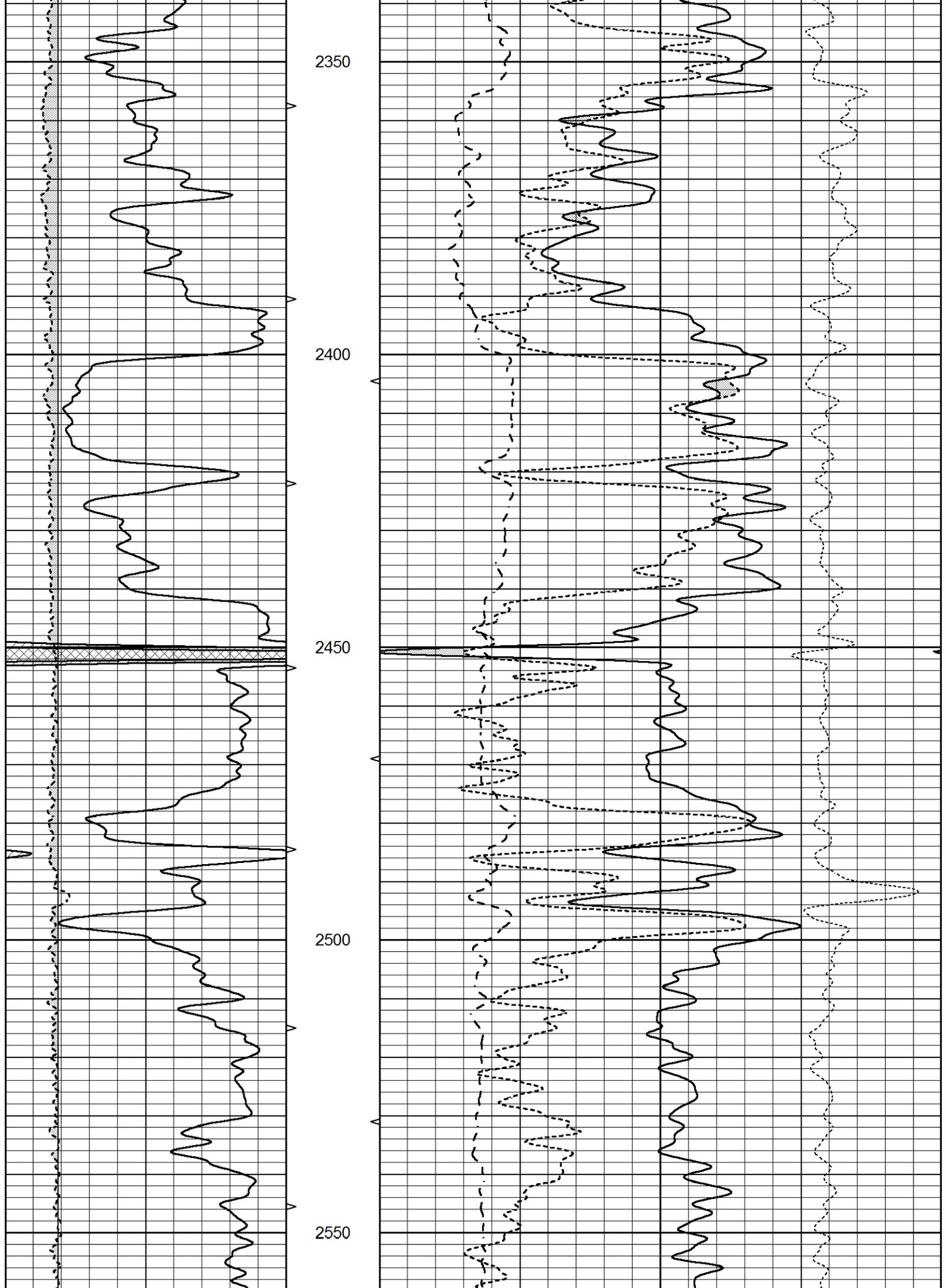
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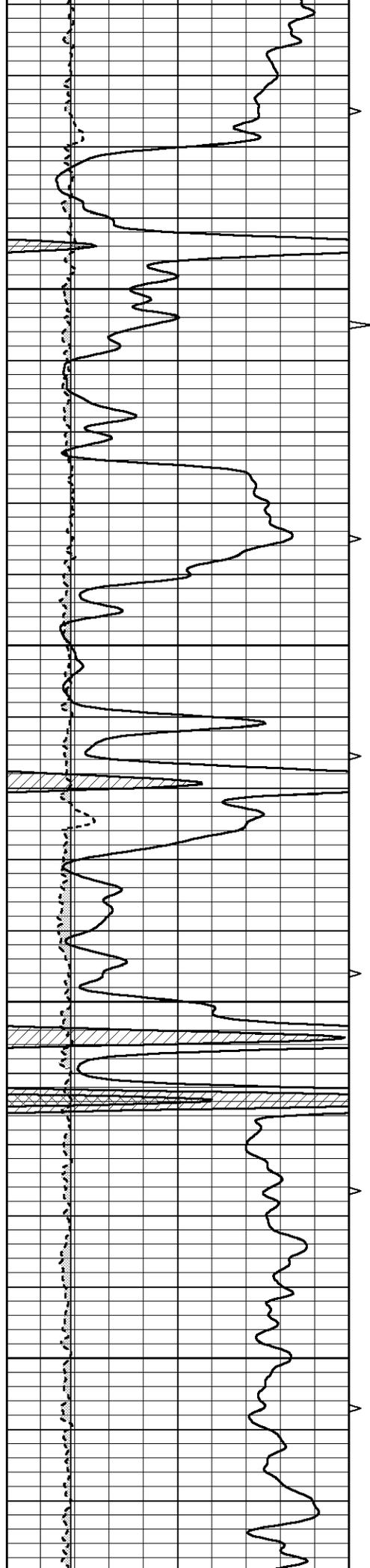
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2250

2300





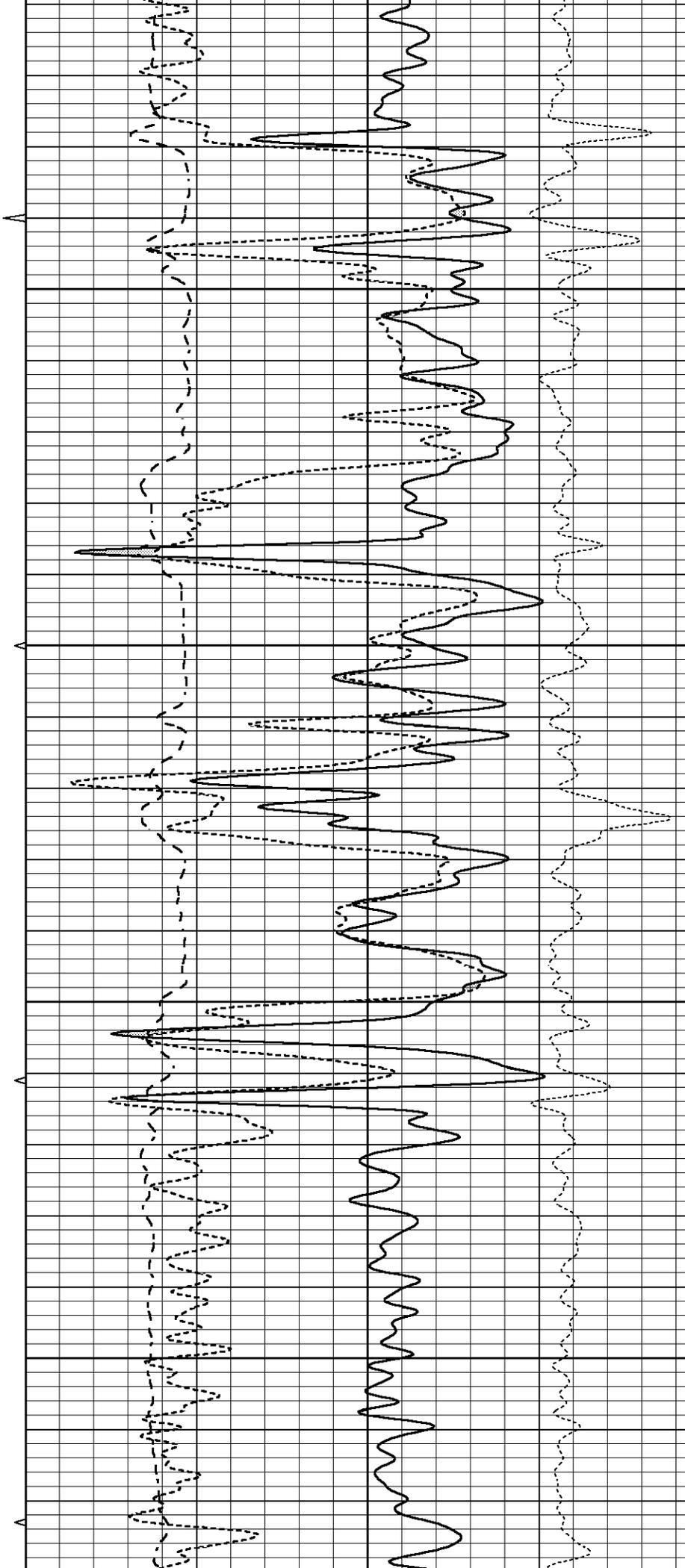


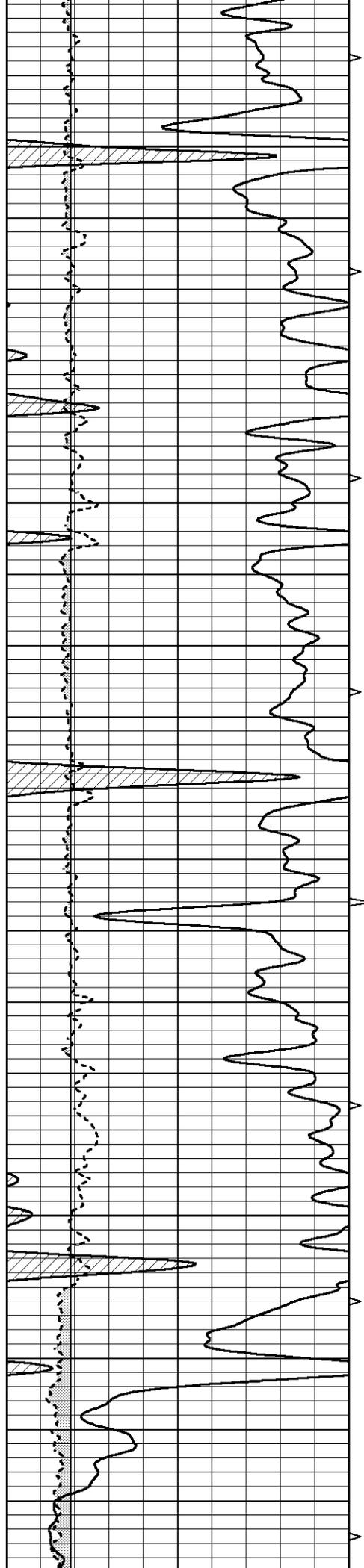
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2650

2700

2750





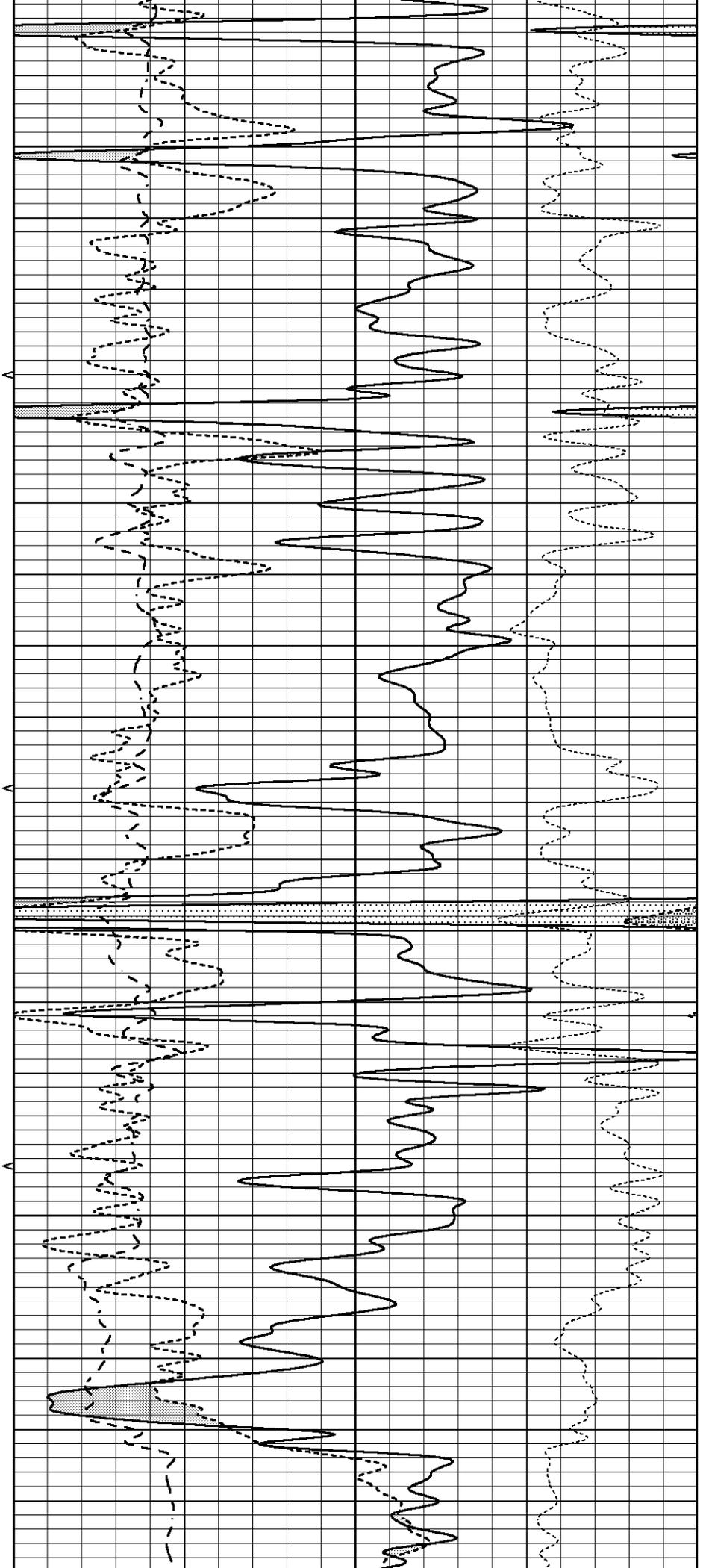
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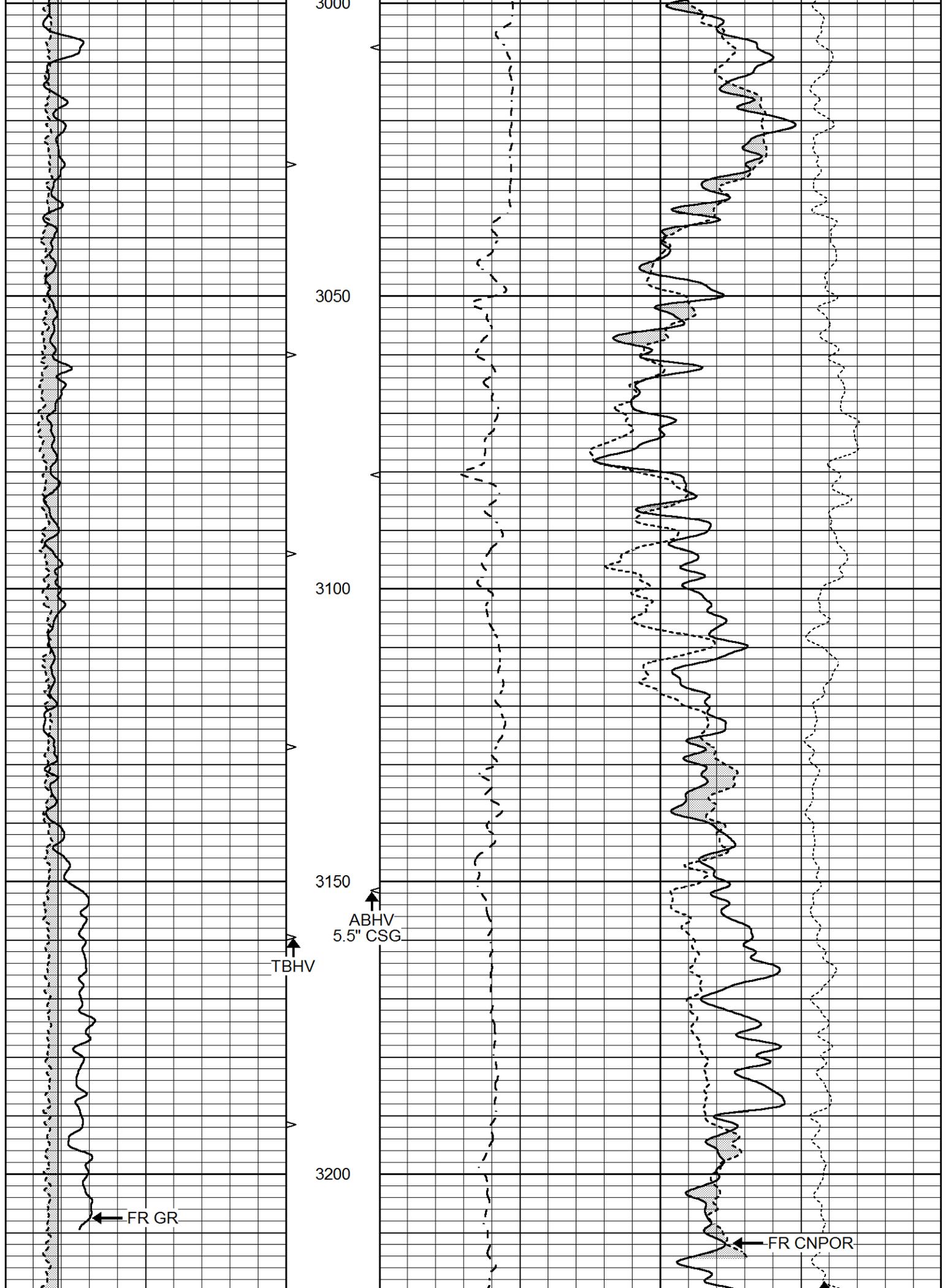
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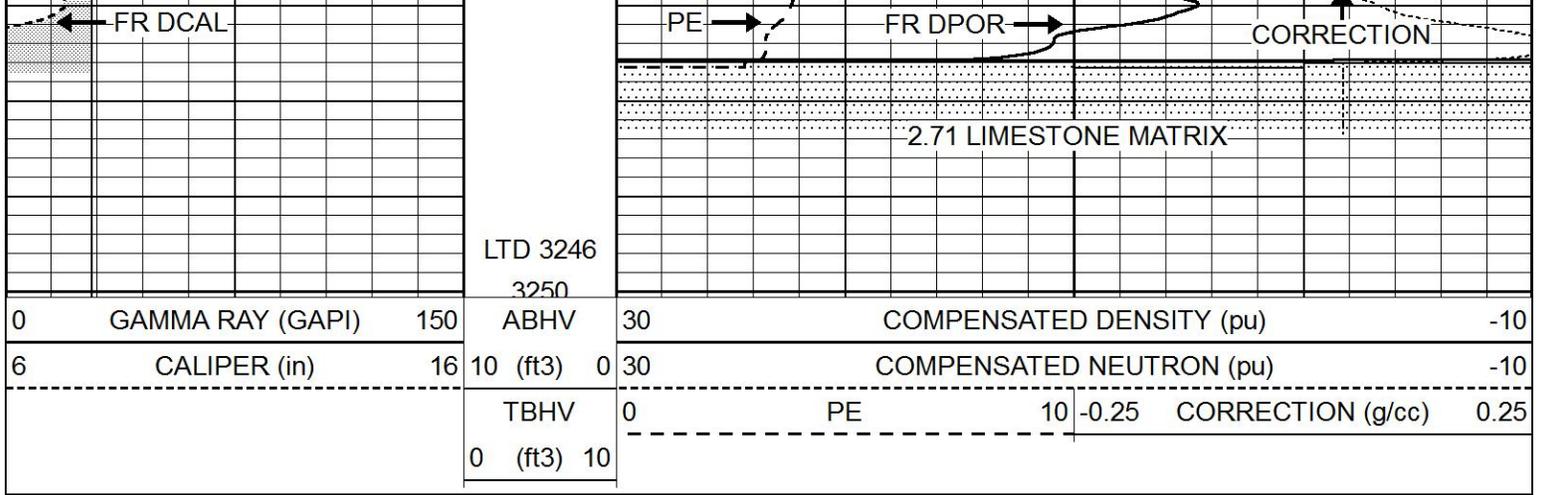
2900

2950

3000

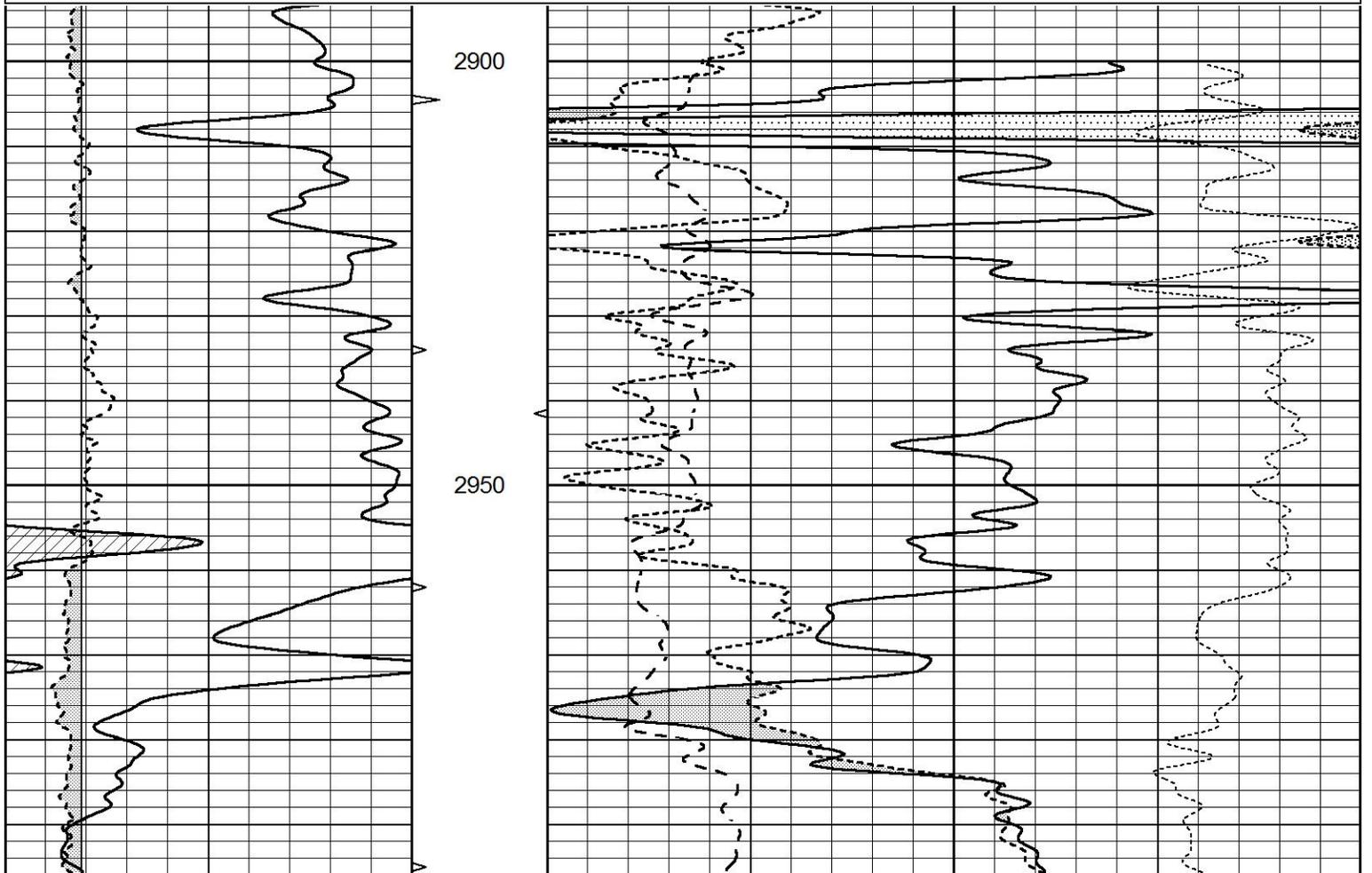
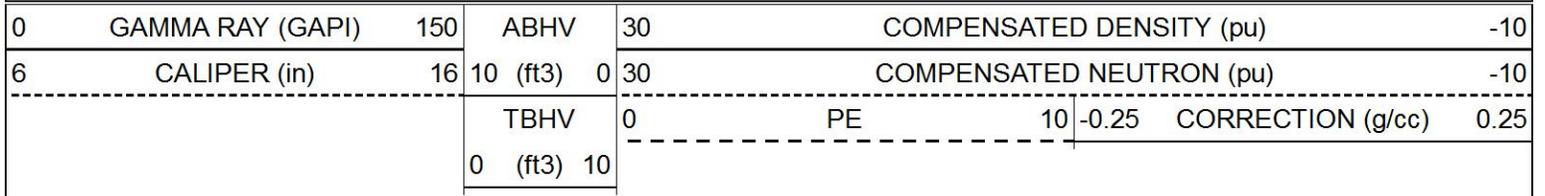


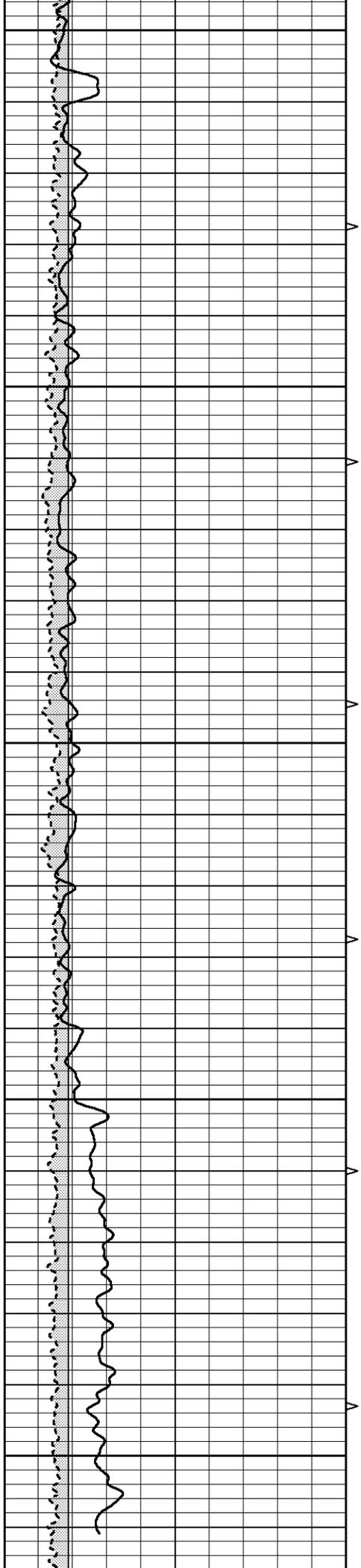




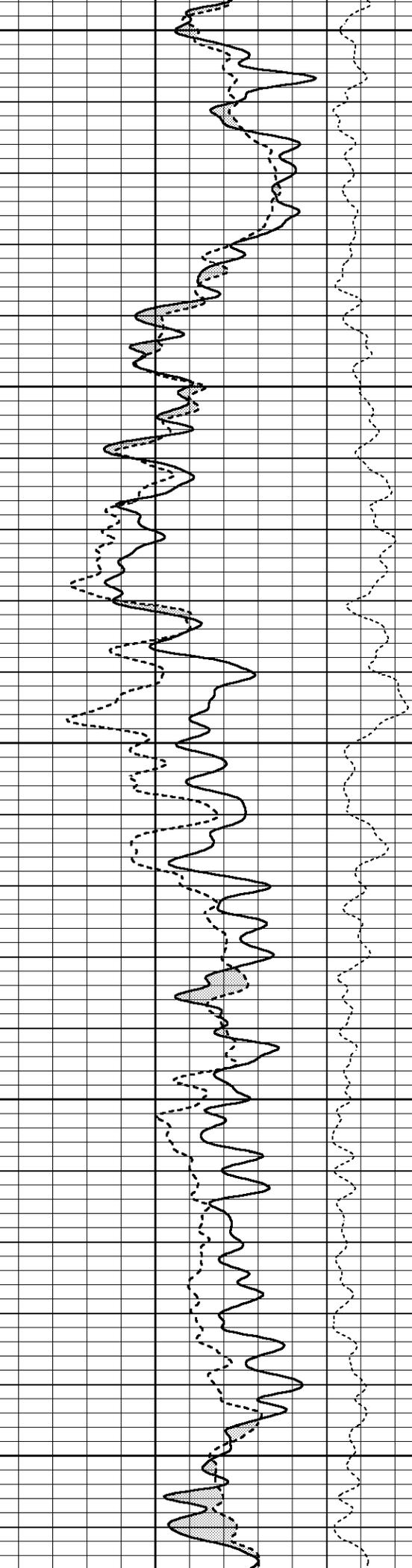
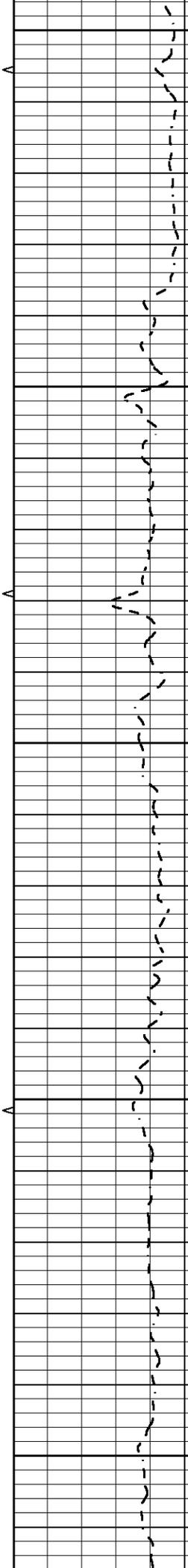
# REPEAT SECTION

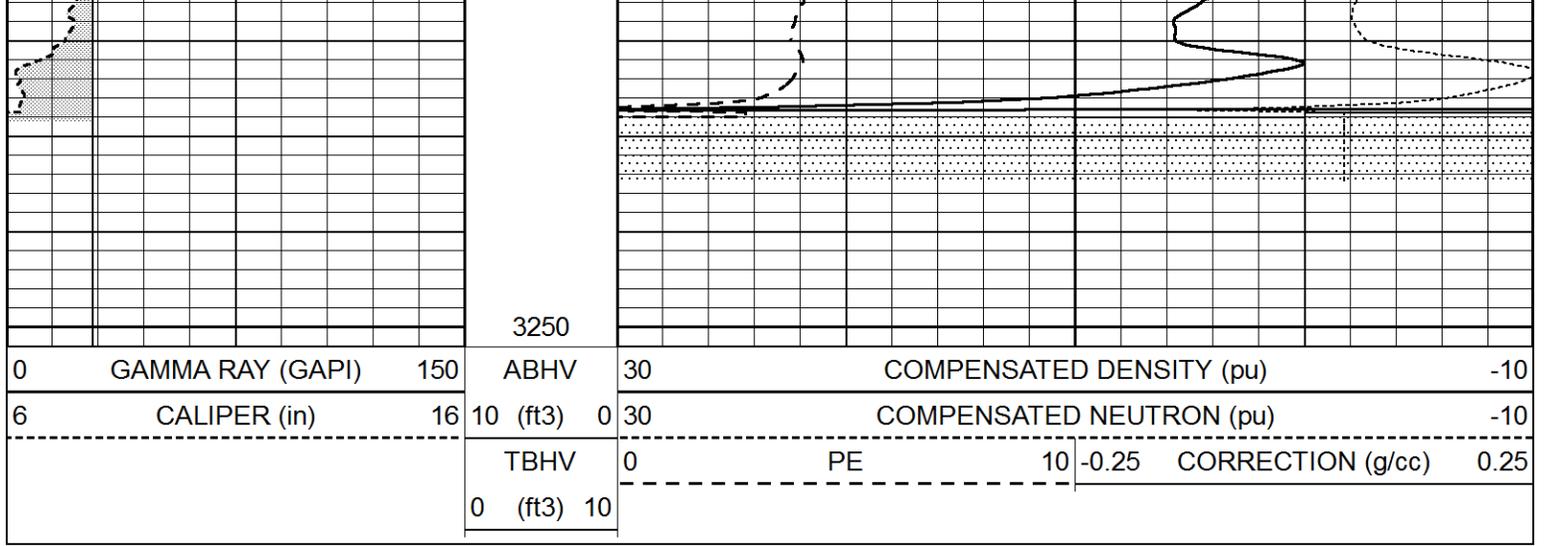
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 Presentation Format \_ldt\_neu  
 Dataset Creation Sun Jul 18 16:58:59 2021  
 Charted by Depth in Feet scaled 1:240





3000  
3050  
3100  
3150  
3200





### Calibration Report

Database File 5632pe.db  
 Dataset Pathname pass5.1  
 Dataset Creation Sun Jul 18 16:58:59 2021

### 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		

### Litho Density Calibration Report

Serial: 110703

Master Calibration Performed: Wed Dec 02 12:04:44 2020

	<u>Background</u>	<u>Aluminum</u>	<u>Magnesium</u>		
Window 1	595.38	5386.50	23898.92	cps	
Window 2	52.78	1248.21	5993.75	cps	
Window 4	251.36	1200.30	5155.55	cps	
Window 5	545.15	9066.30	17240.12	cps	
Window 6	43.35	1491.73	2929.24	cps	
Window 8	258.76	2917.82	5450.26	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8726	SS Alpha:	: -0.7656	LS CPE:	: 1.0742
LS Beta:	: 127345.0723	SS Beta:	: 20293.3834	SS CPE:	: 1.5427

Before Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration Performed: Wed Dec 02 12:04:44 2020

Results		Readings		References (in)		Gain	Offset
<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>			<u>Gain</u>	<u>Offset</u>
877.4	1277.9	8.0	14.0			0.0	-5.1

Before Survey Caliper Verification Performed:

Reference	Reading
_____	_____
Caliper (in)	

After Survey Caliper Verification Performed:

Reference	Reading
_____	_____
Caliper (in)	

Serial Number:  
Tool Model:

080621PMC  
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 Jan 19 17:50:08 2021

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps