



DUAL INDUCTION LOG

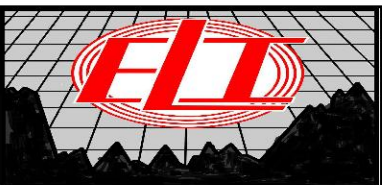
Company	PHILLIPS EXPLORATION COMPANY L.C.		
Well	MILEY #1-27		
Field	WC		
County	SHERIDAN		
State	KANSAS		
Location:	2200' FNL & 1050' FEL		Other Services CDL/CNL
Permanent Datum	SEC 27	TWP 8S	RGE 27W
Log Measured From	GROUND LEVEL Elevation		2614
Drilling Measured From	KELLY BUSHING 5' A.G.L		Elevation K.B. 2619 D.F. 2617 G.L. 2614
Date	6/24/20		
Run Number	ONE		
Depth Driller	4312		
Depth Logger	4308		
Bottom Logged Interval	4306		
Top Log Interval	00		
Casing Driller	8 5/8" @ 208'		
Casing Logger	208		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5/58		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1 @ 87F		
Rmf @ Meas. Temp	.83 @ 87F		
Rmc @ Meas. Temp	1.32 @ 87F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.81 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	118F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	AARON YOUNG		

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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.

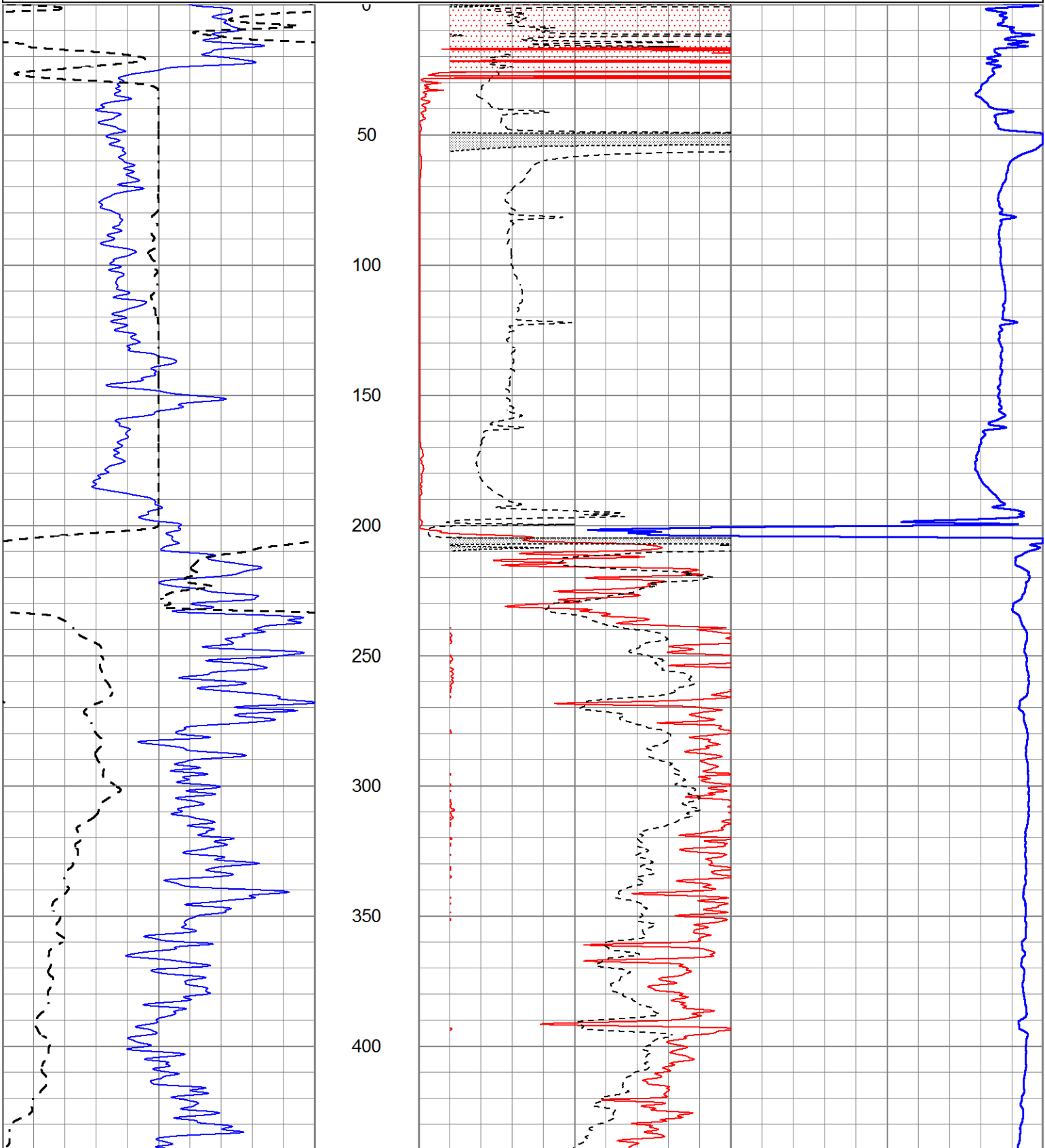
Comments

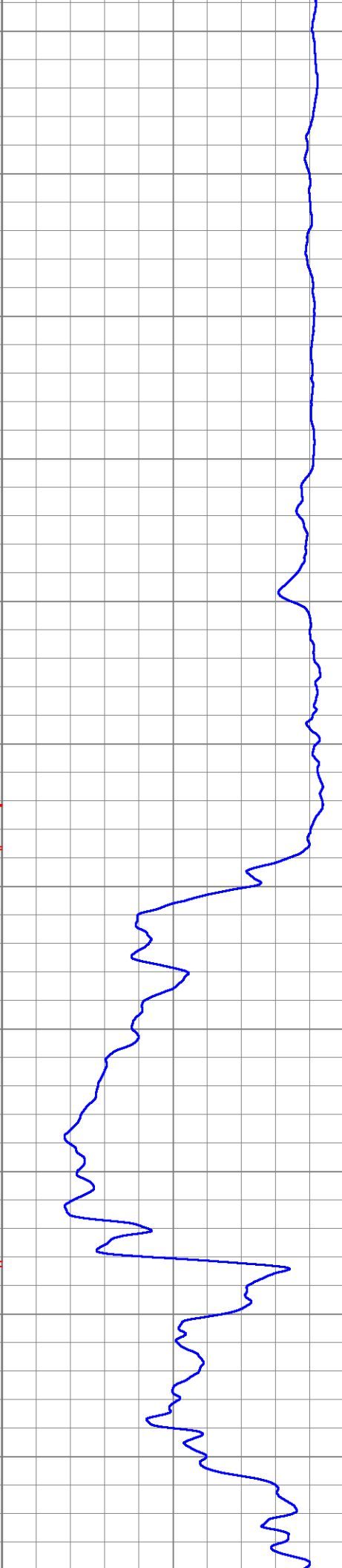
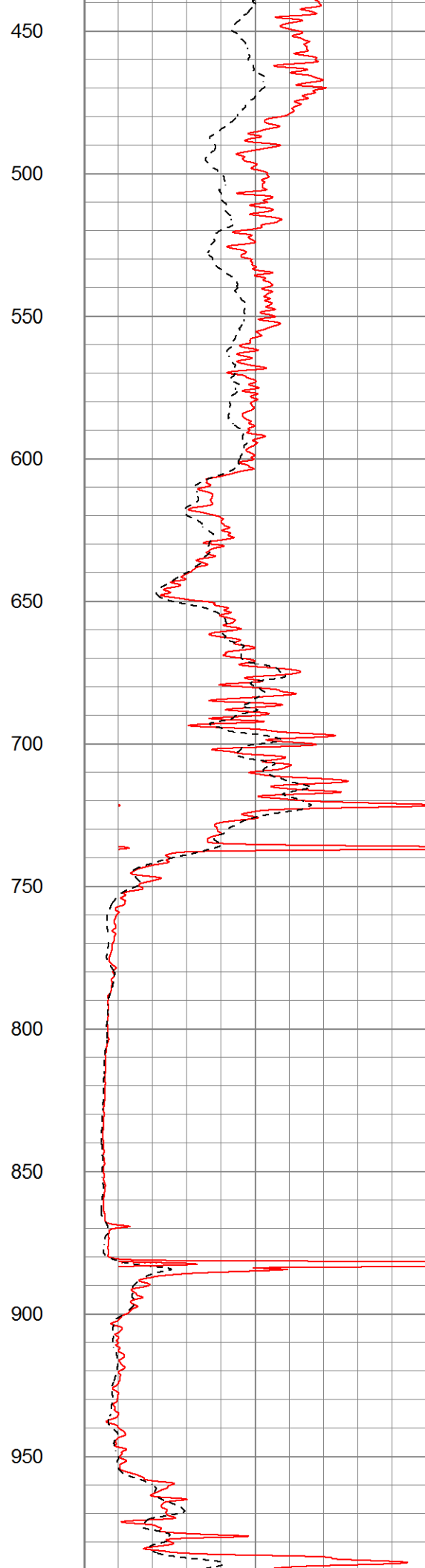
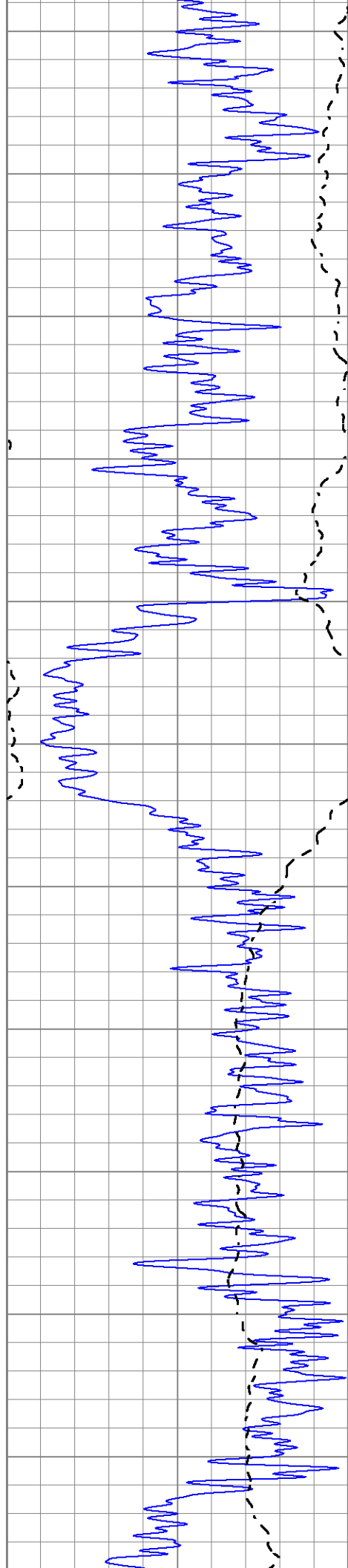
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HOXIE EAST 6 MILES, TO RD. 503, 1 1/4 SOUTH
1/4 WEST, SOUTH INTO.

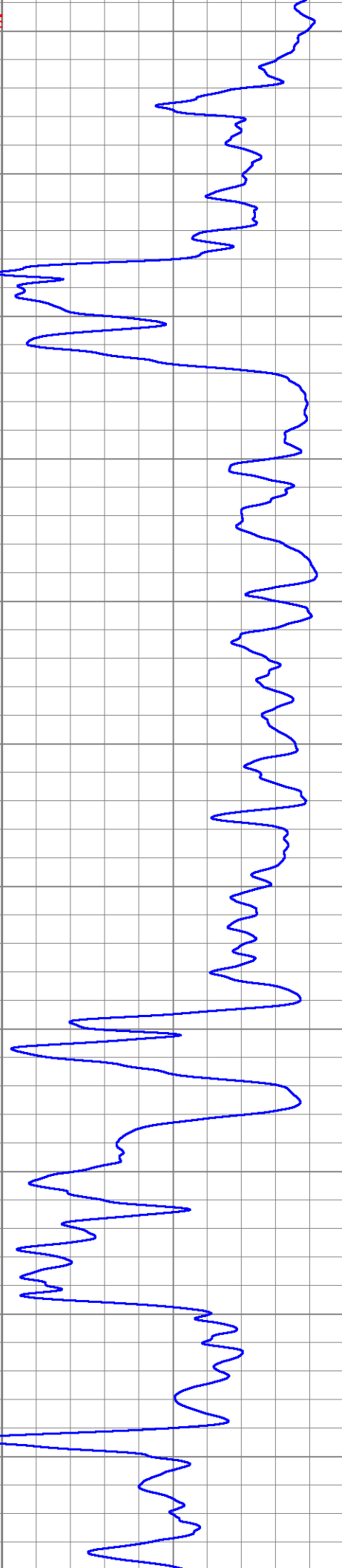
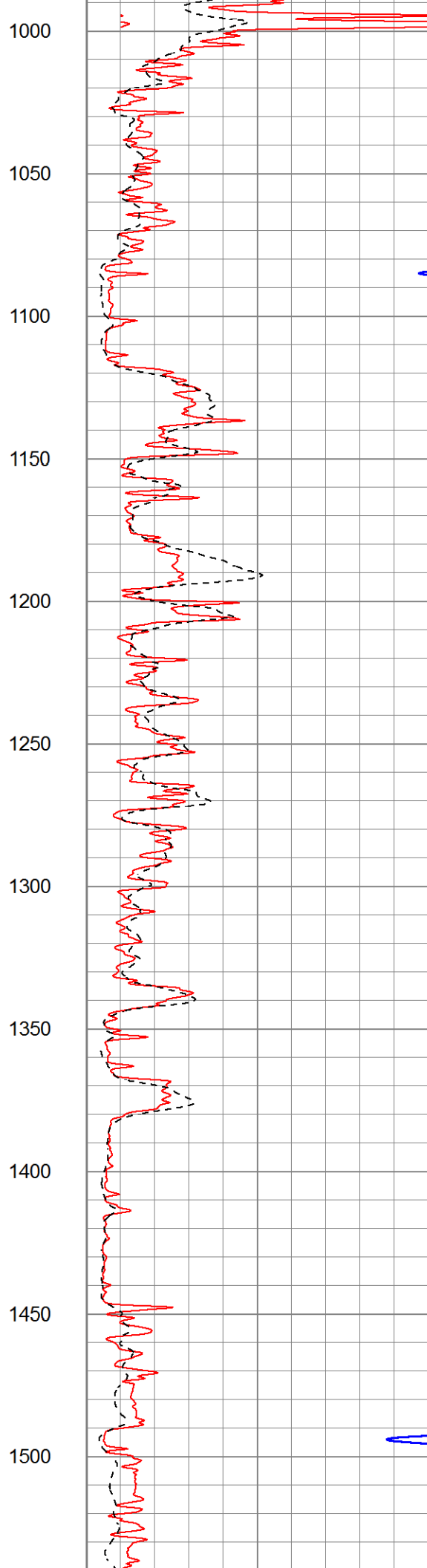
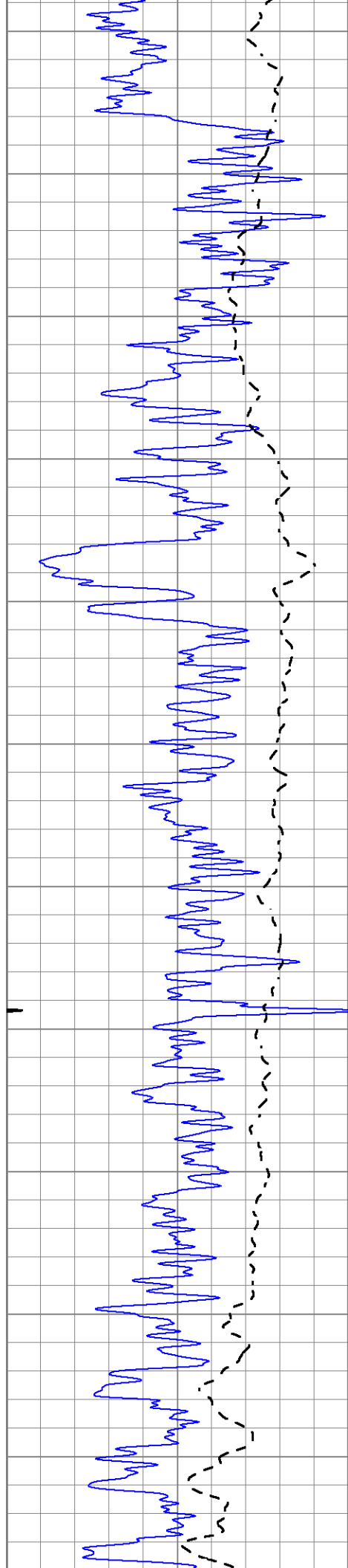


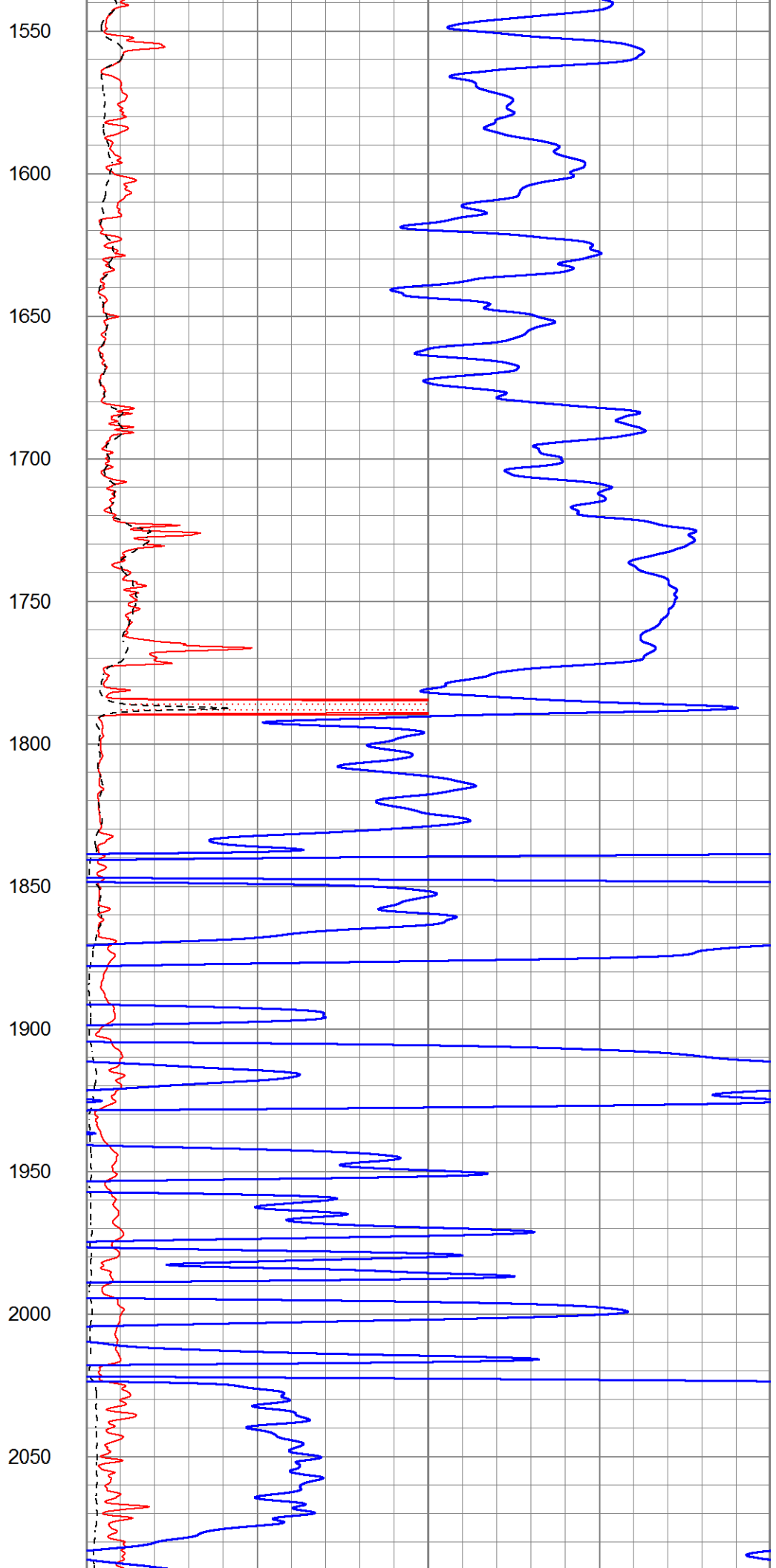
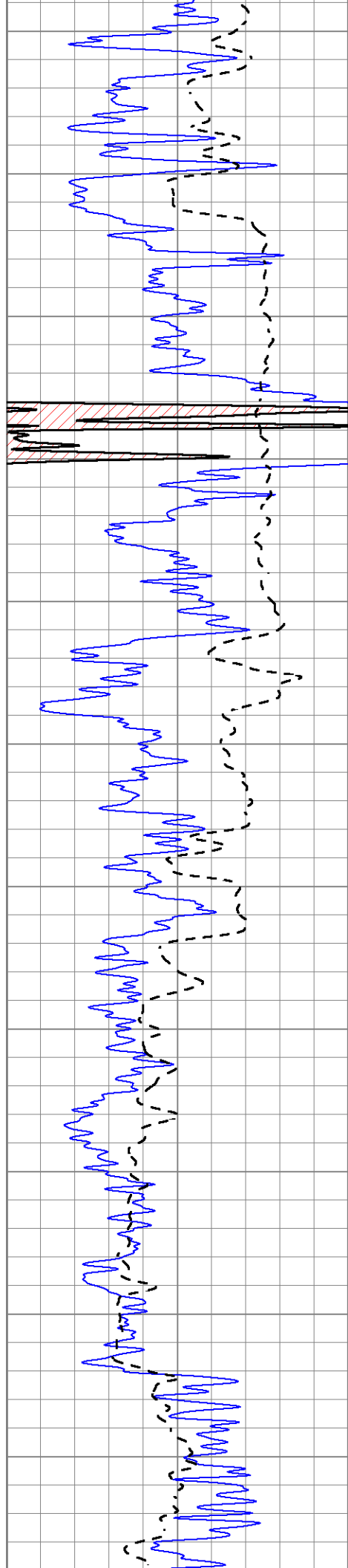
MAIN PASS

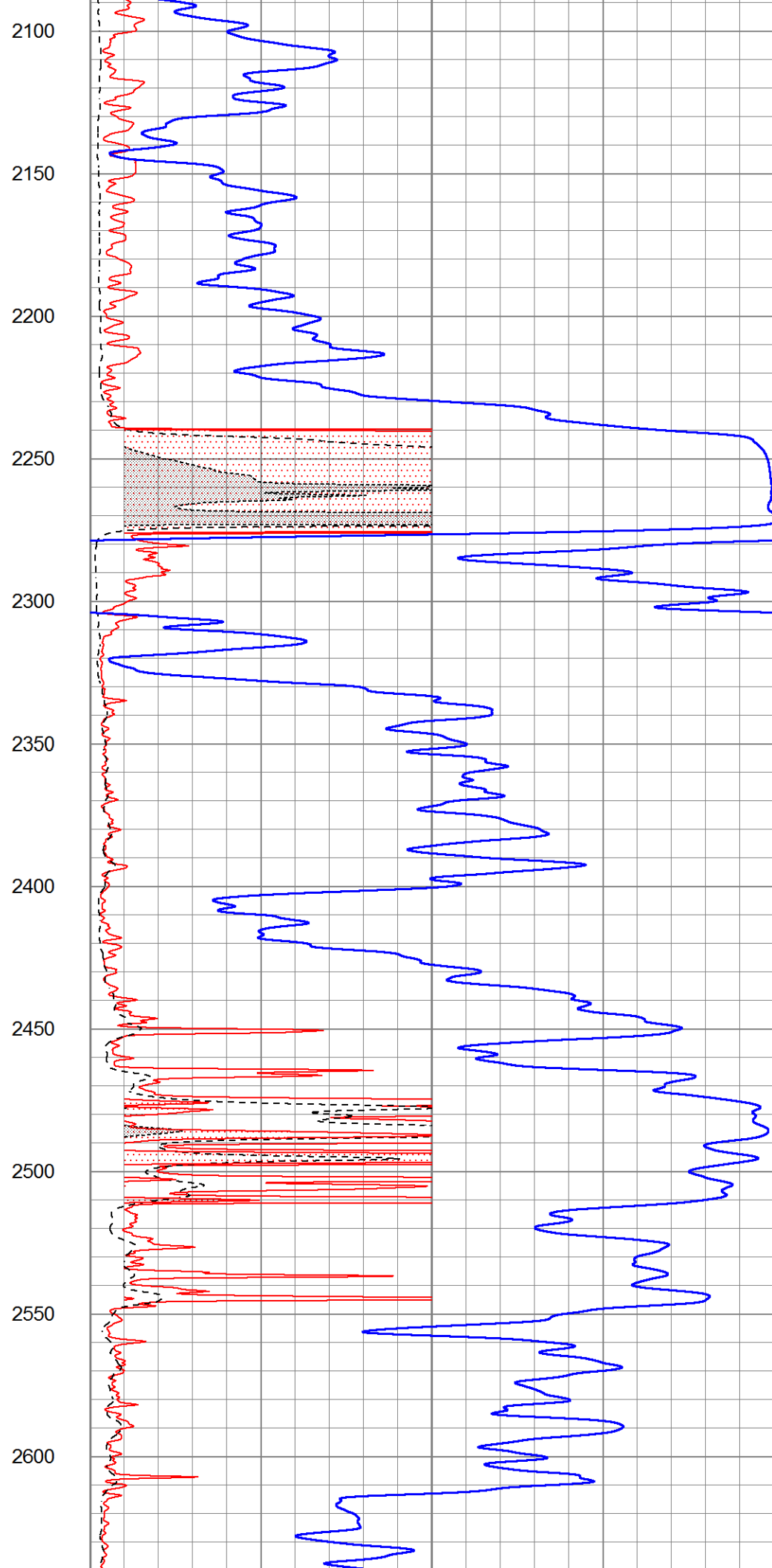
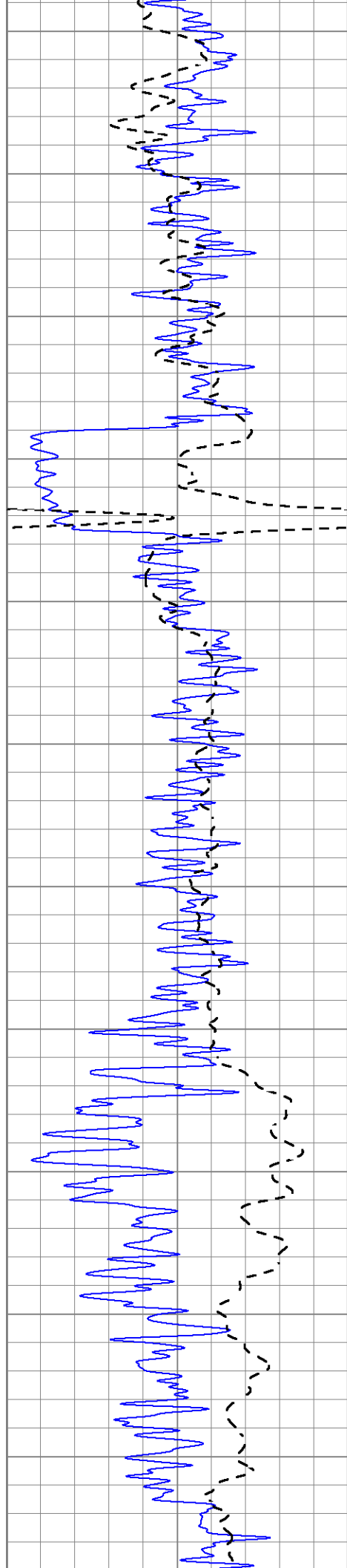
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

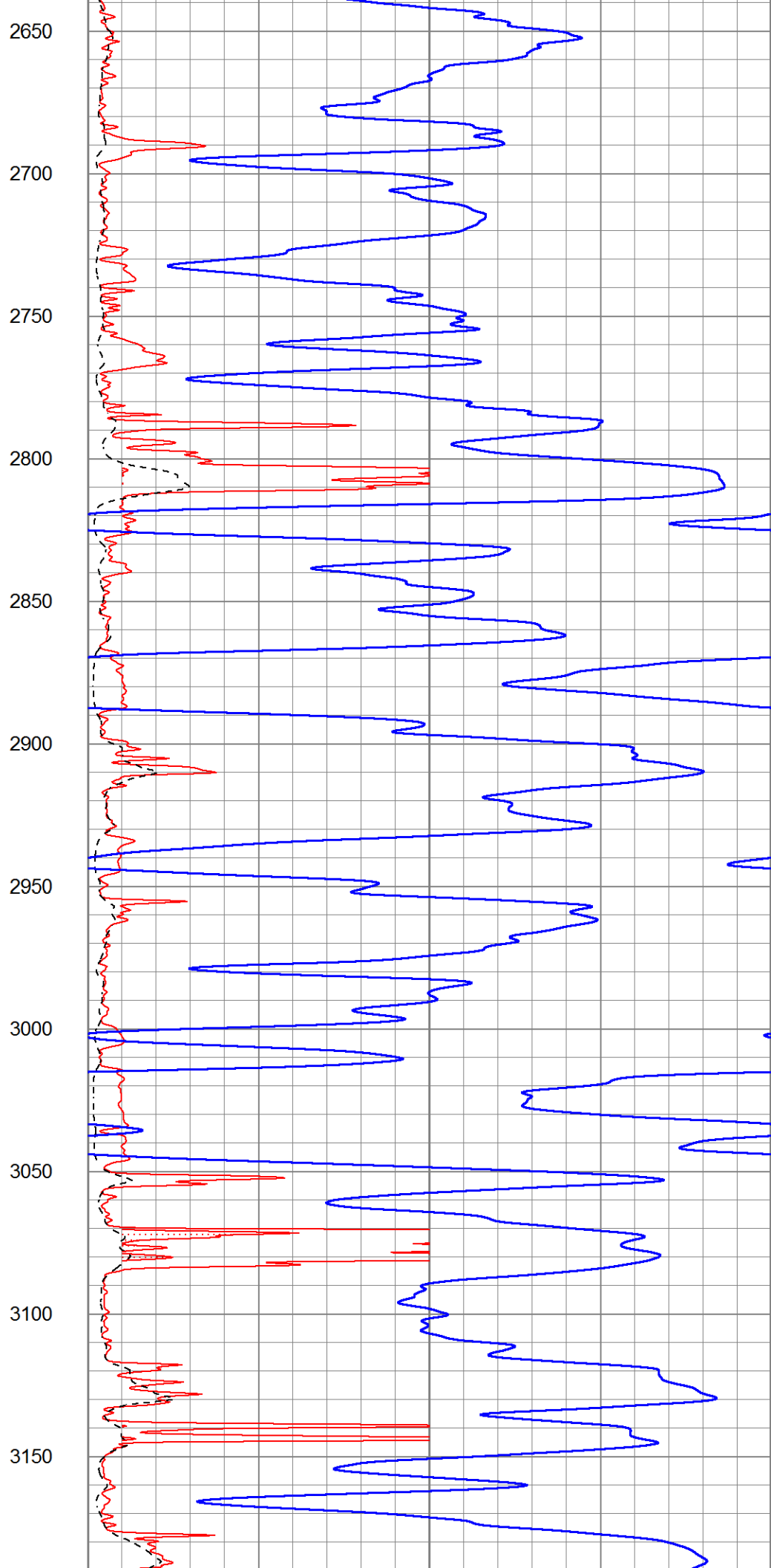
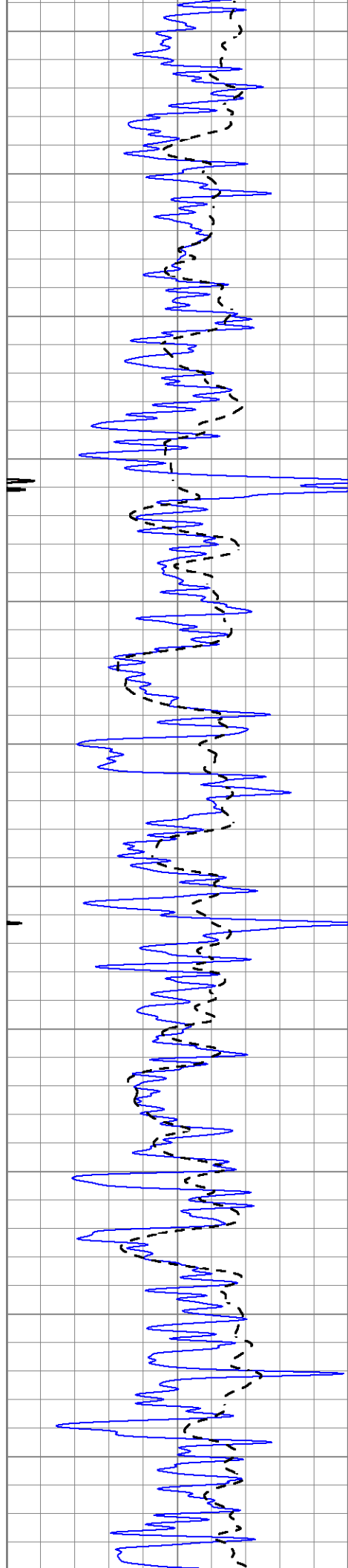


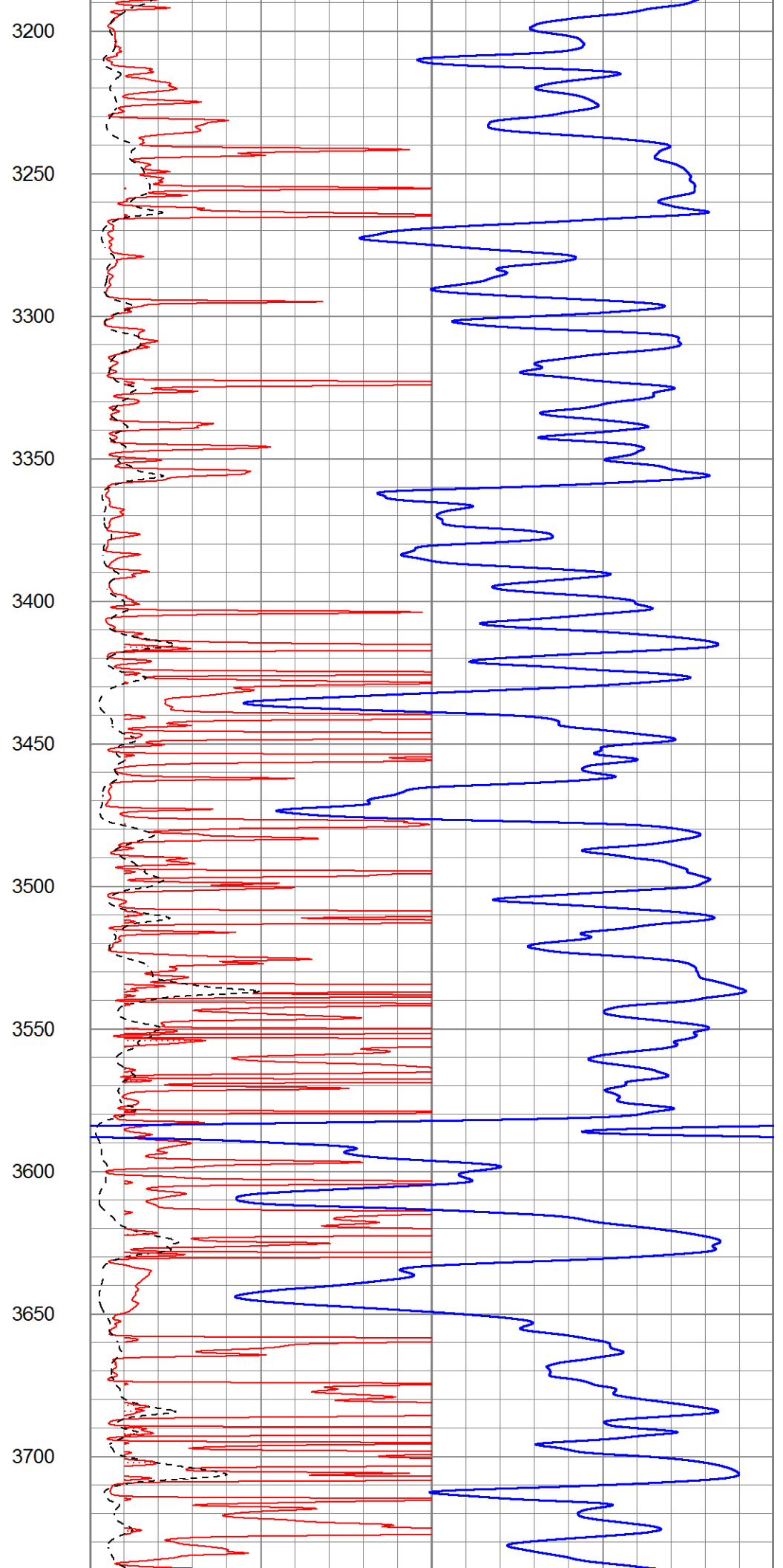
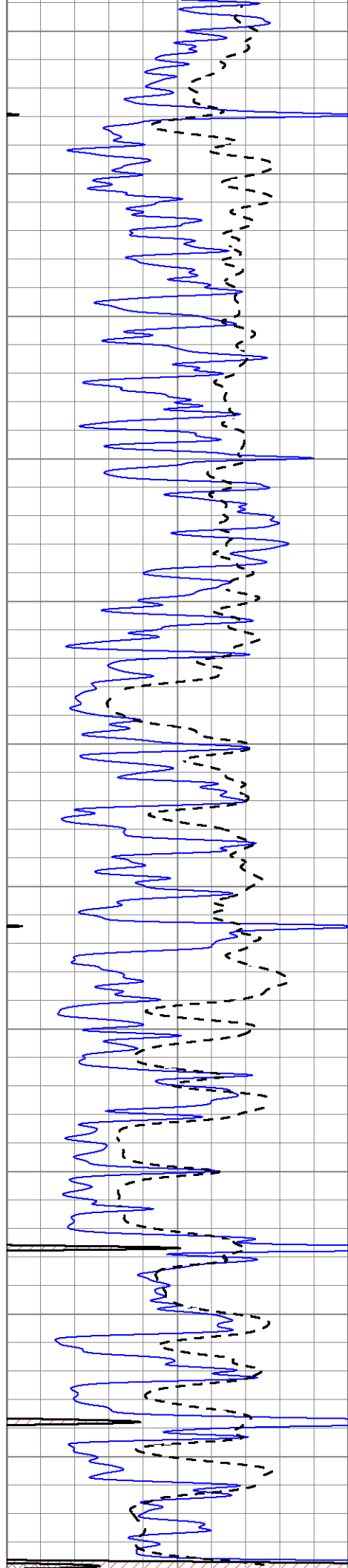


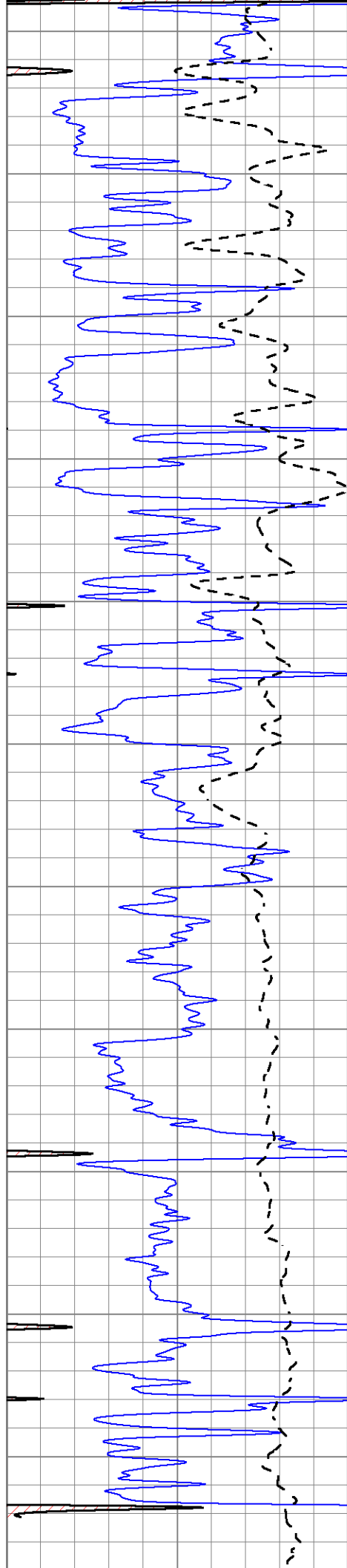












3750

3800

3850

3900

3950

4000

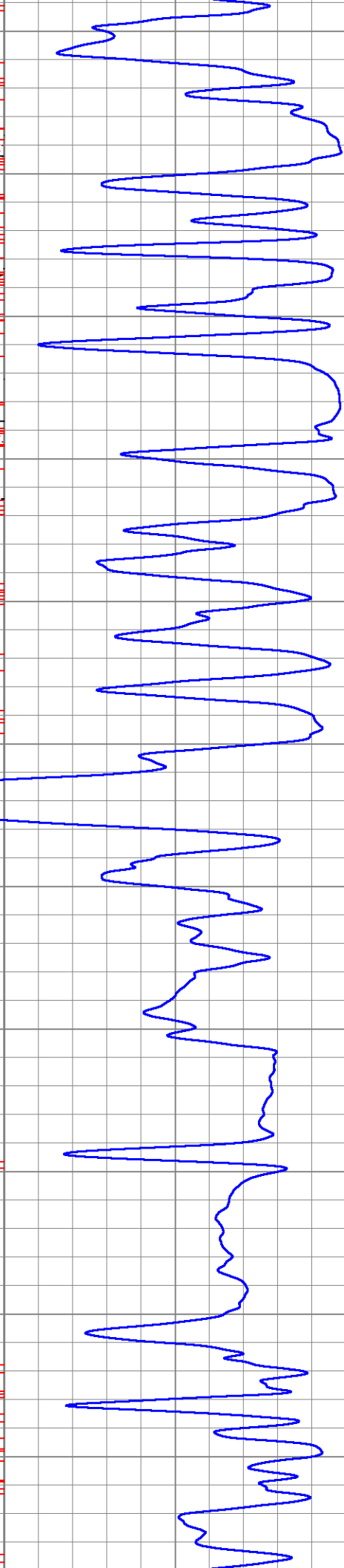
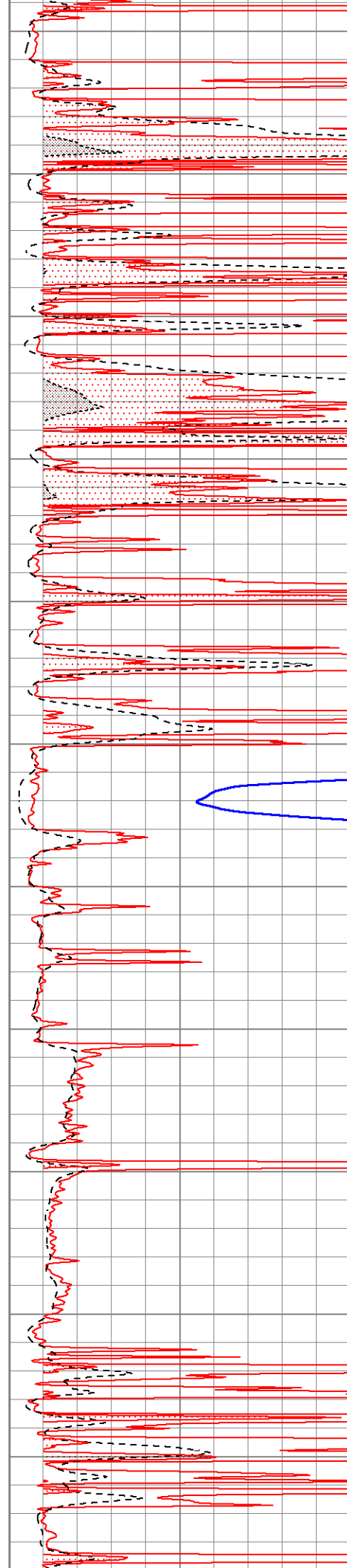
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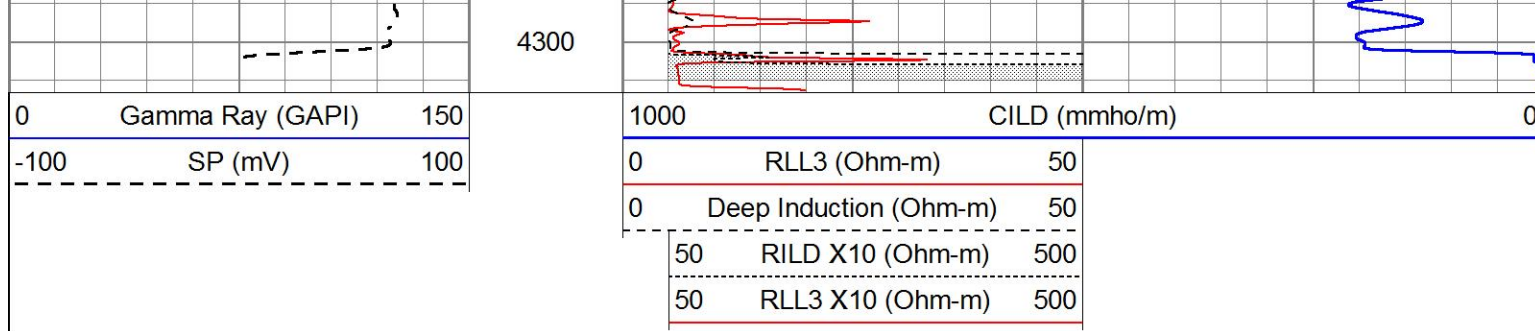
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4150

4200

4250

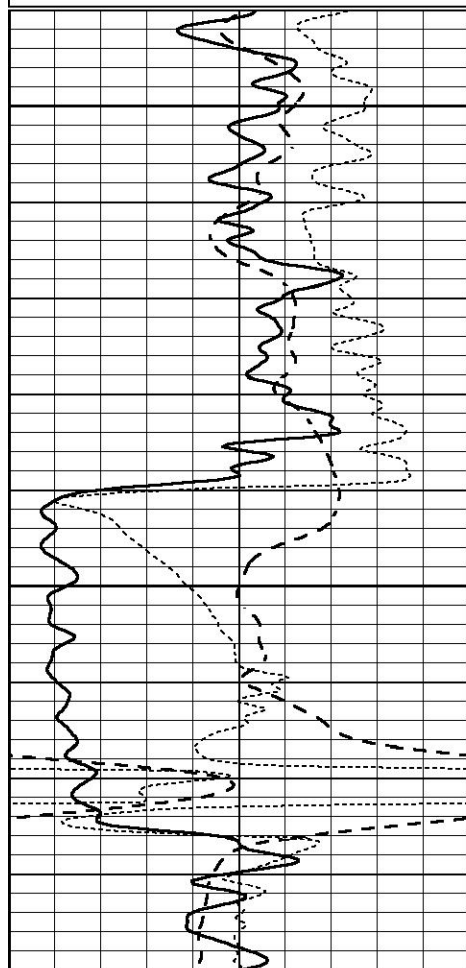




MAIN PASS

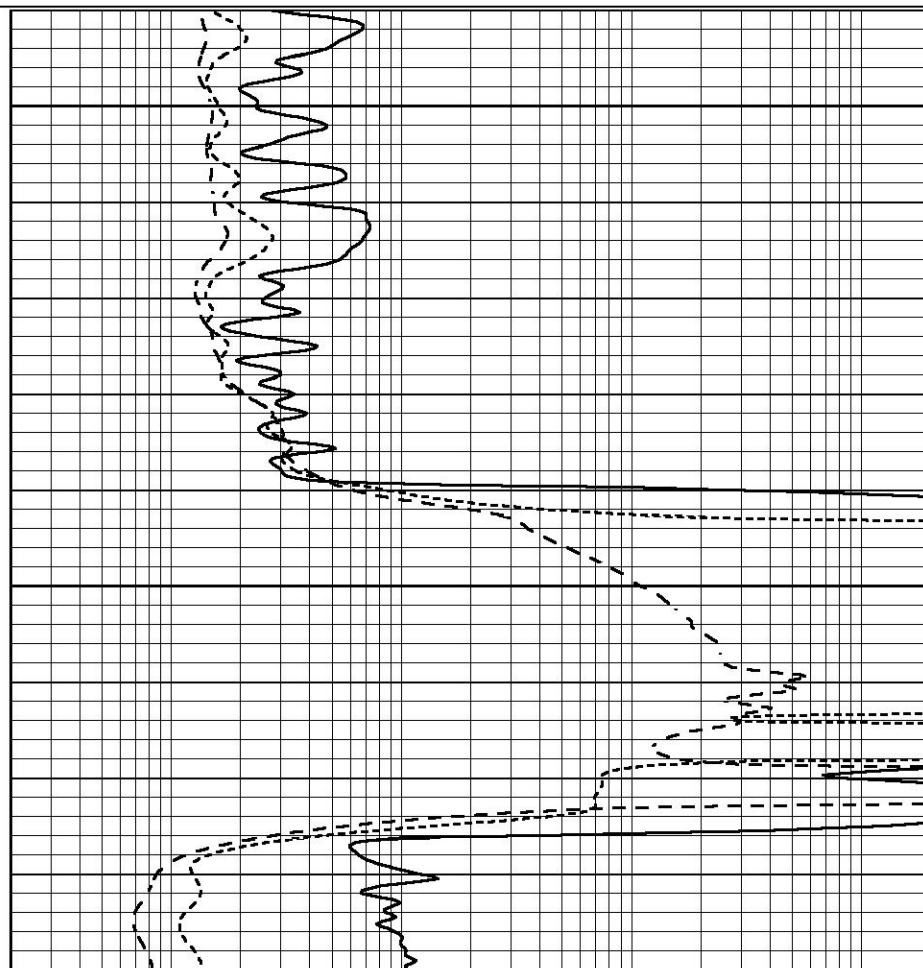
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 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Wed Jun 24 23:07:27 2020
 Charted by Depth in Feet scaled 1:240

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



2200

2250



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



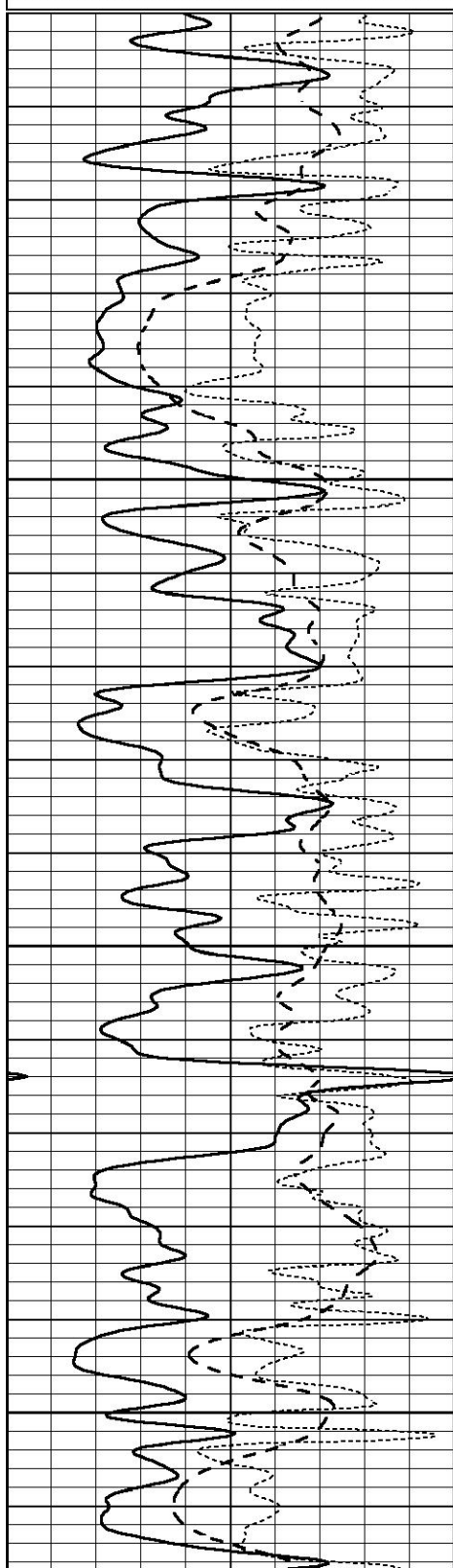


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Dataset Creation Wed Jun 24 23:07:27 2020
Charted by Depth in Feet scaled 1:240

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

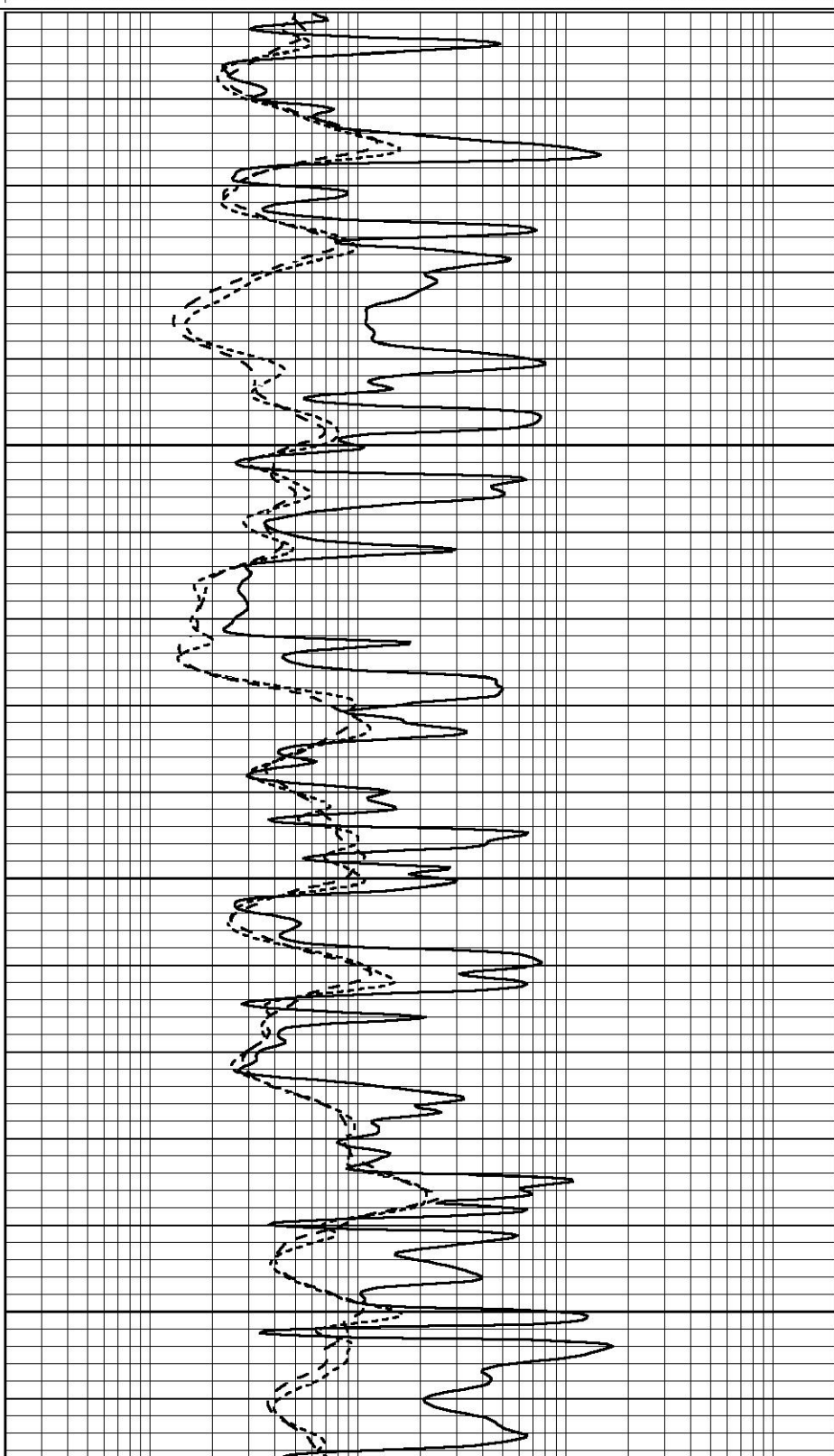


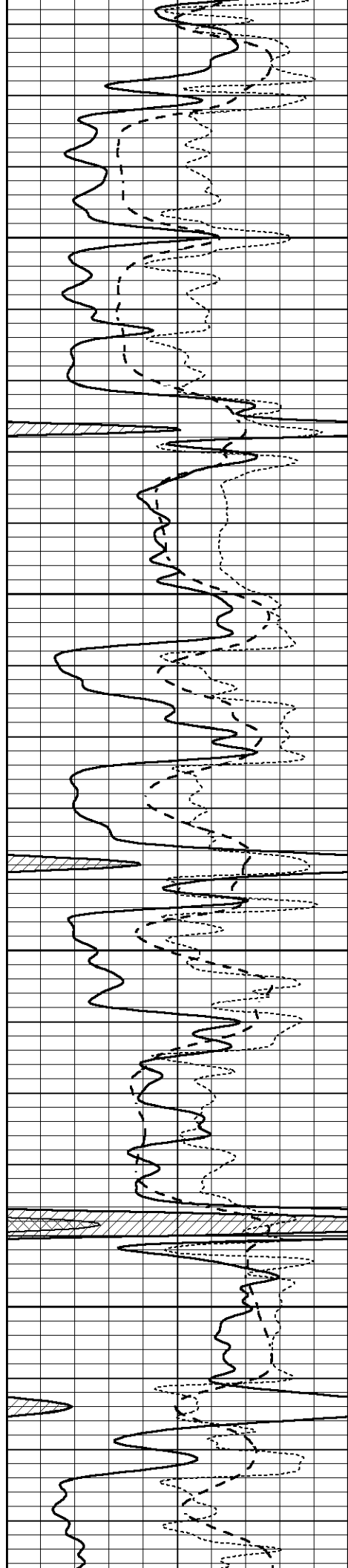
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3450

3500

3550



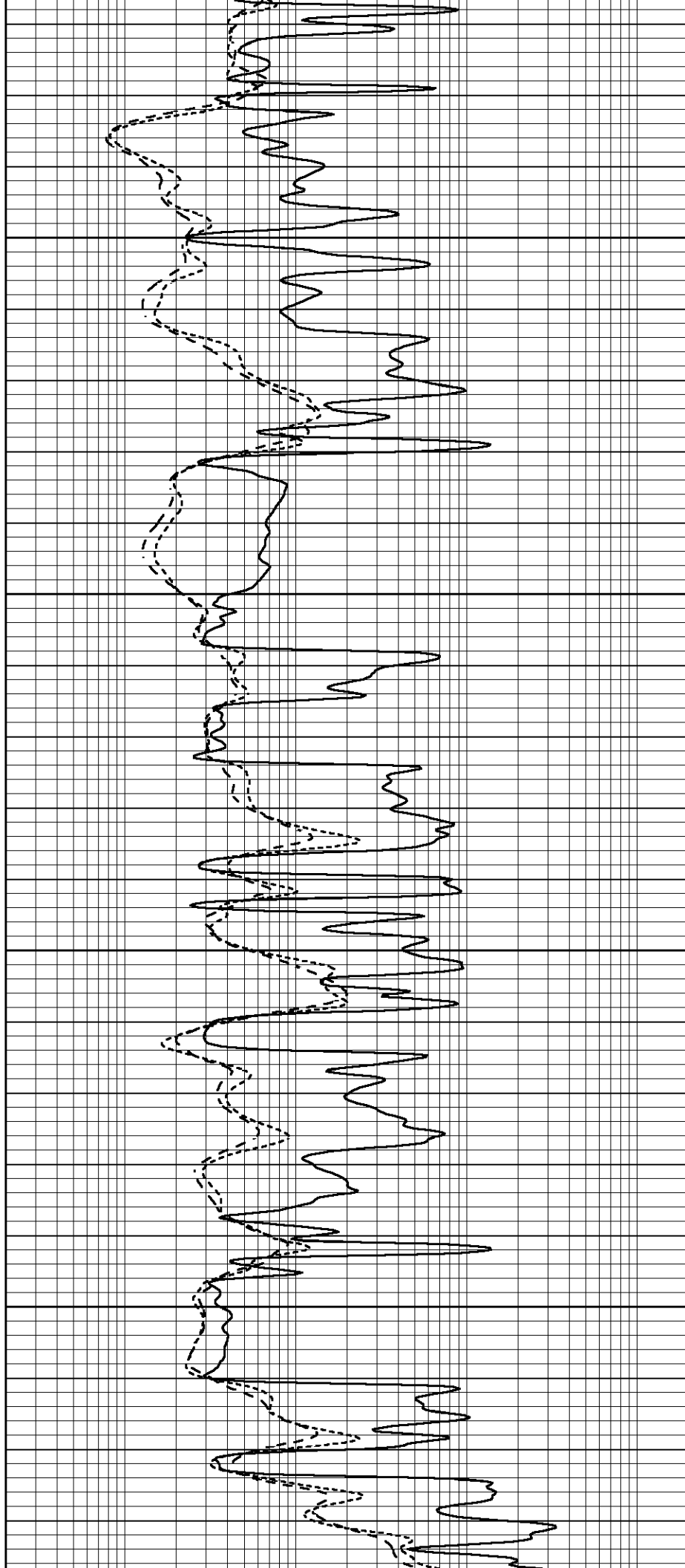


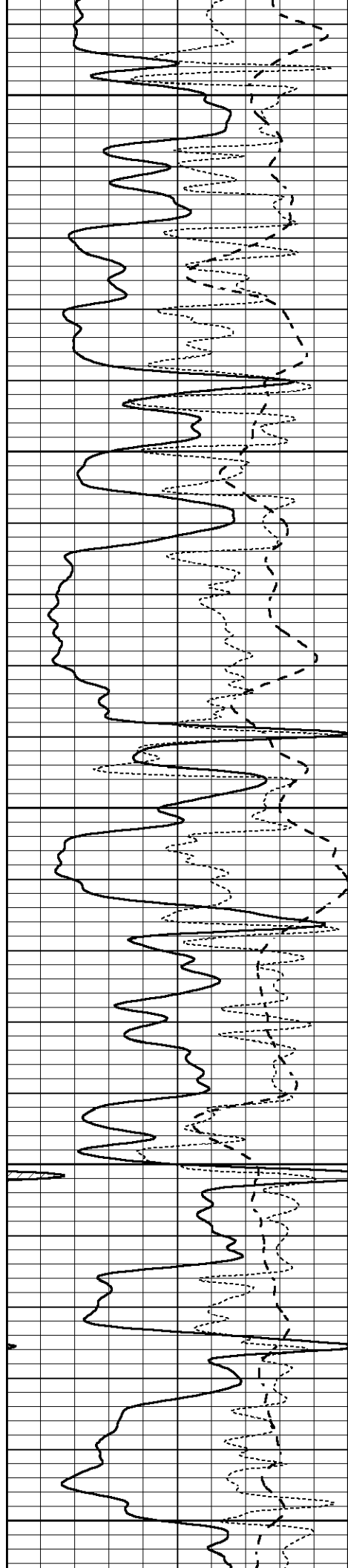
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3750





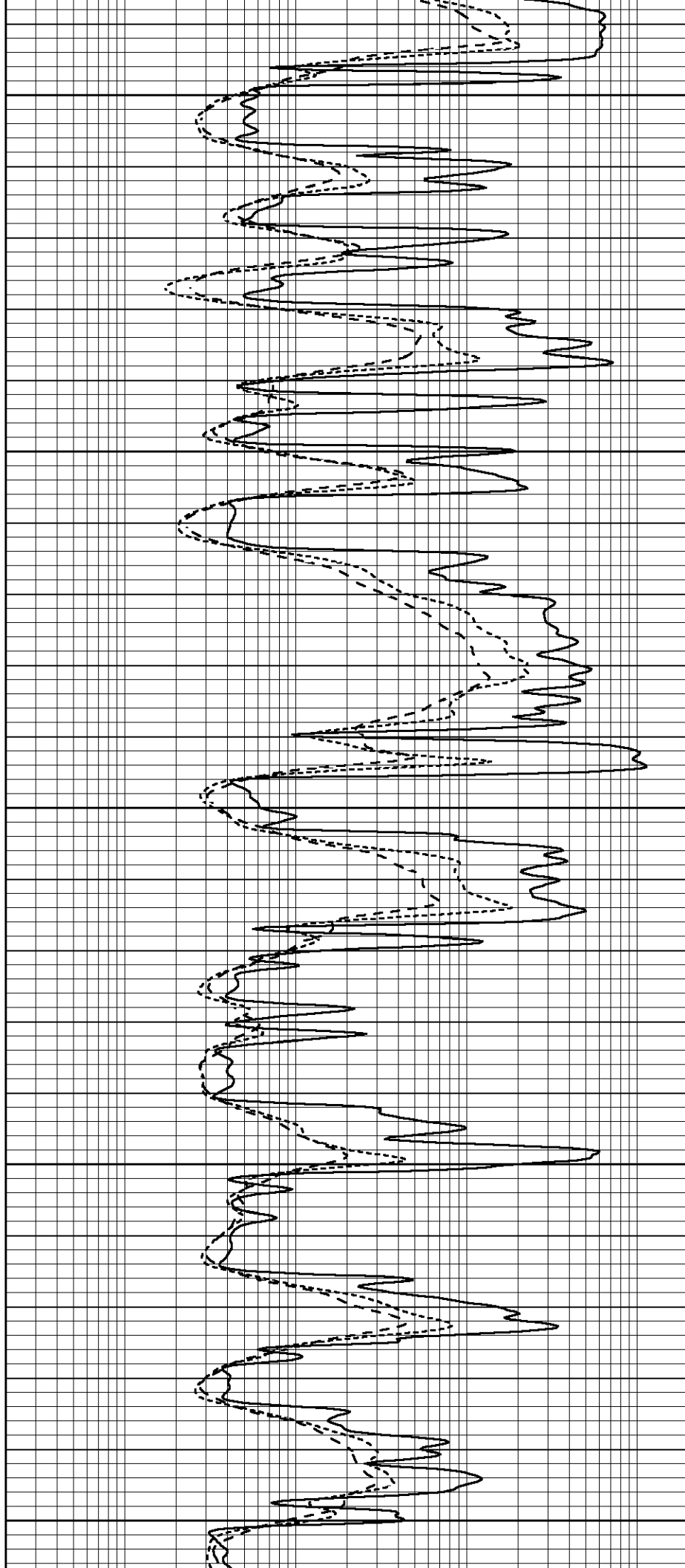
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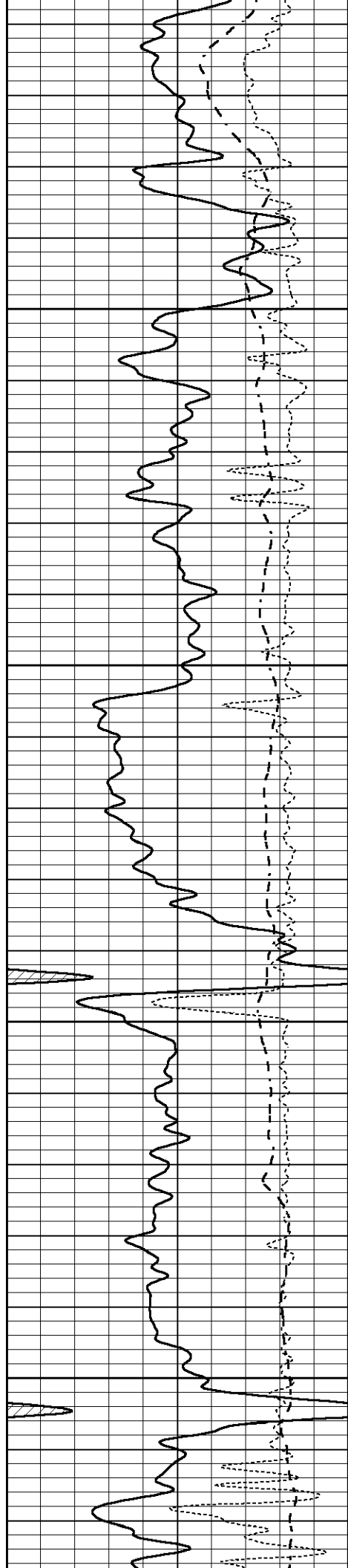
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3950

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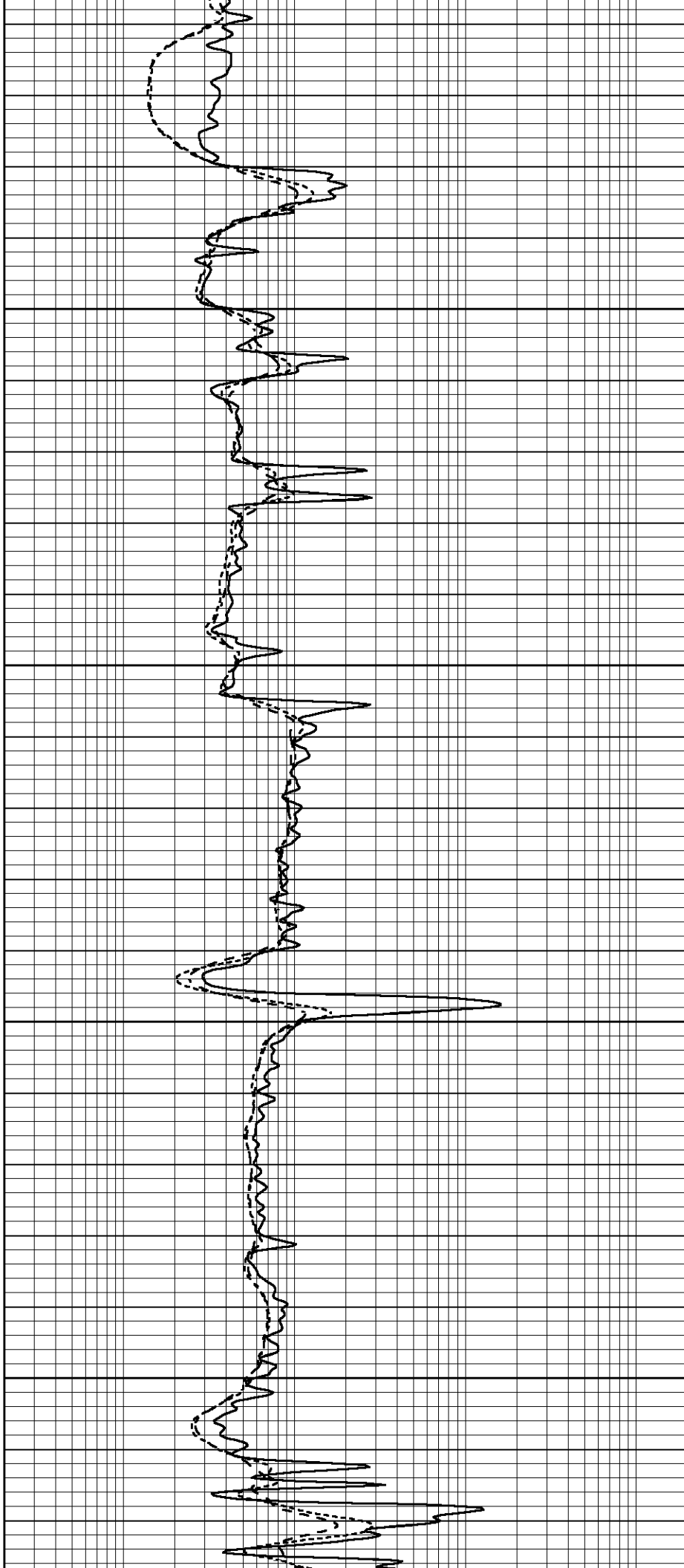


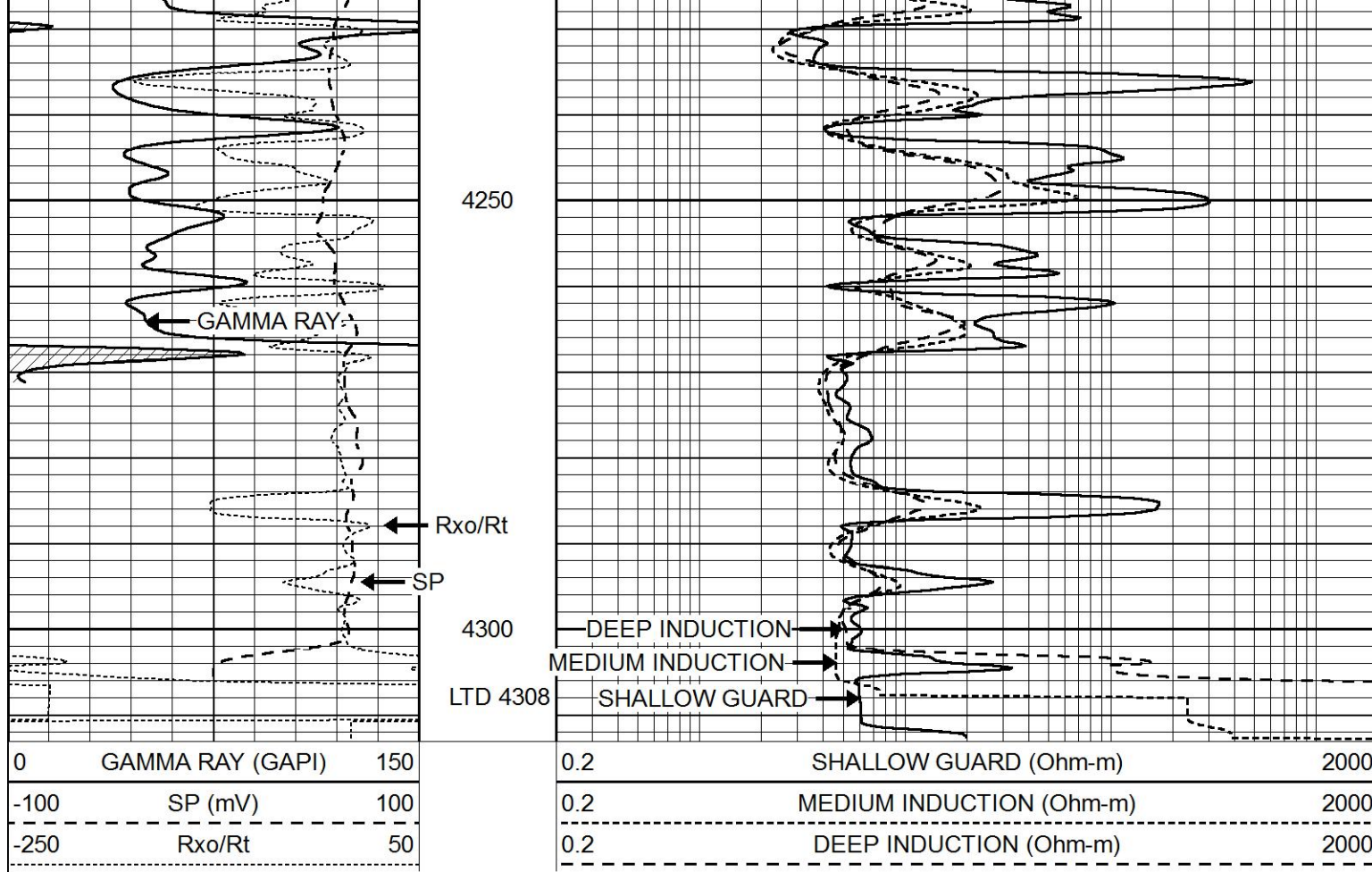
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4100

4150

4200

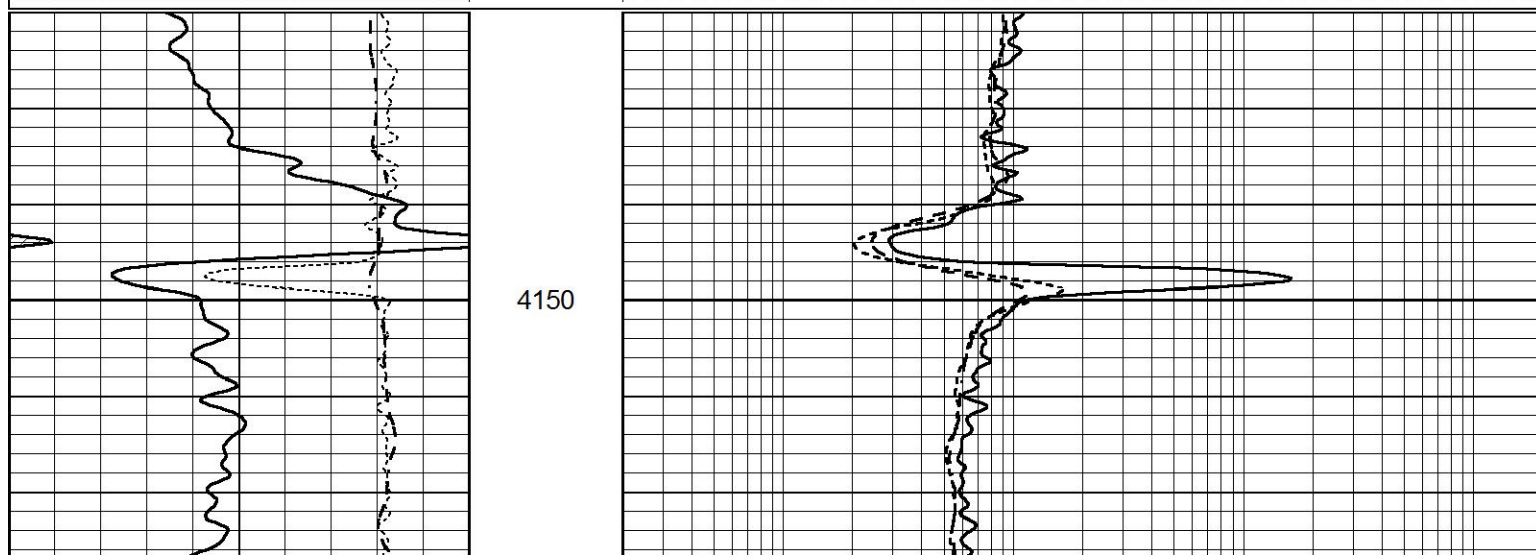


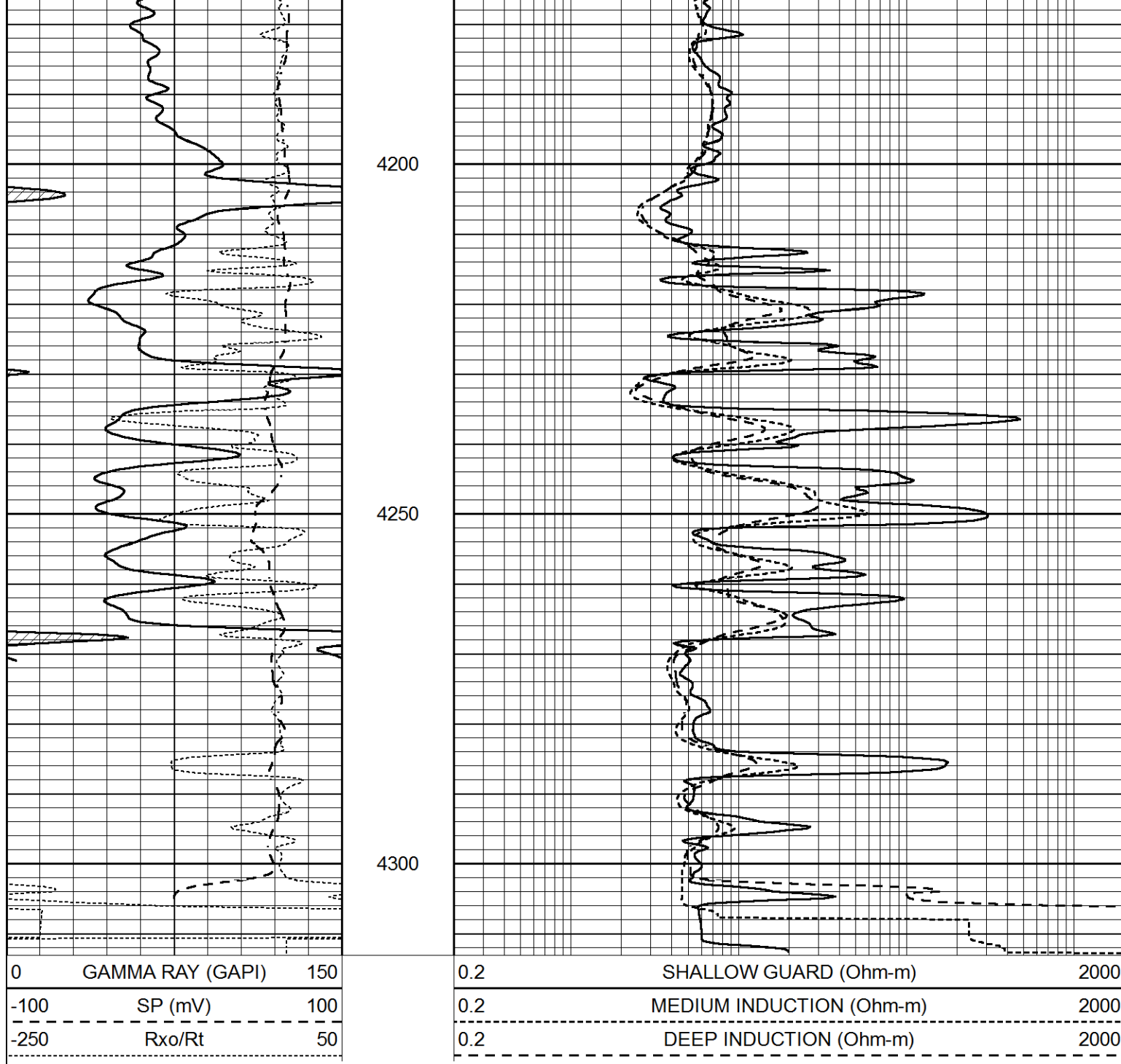


REPEAT SECTION

Database File 4741ddn.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Wed Jun 24 23:09:57 2020
 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





Calibration Report								
Database File	4741ddn.db							
Dataset Pathname	pass2.1							
Dataset Creation	Wed Jun 24 23:09:57 2020							
Dual Induction Calibration Report								
Serial-Model:			FW1410-56-Probe					
Surface Cal Performed:			Mon Jun 15 22:52:02 2020					
Downhole Cal Performed:			Tue Jul 25 12:15:37 2017					
After Survey Verification Performed:			Tue Jul 25 12:15:38 2017					
Surface Calibration								
		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		5000.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	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: 140703								
Model: V4_10P								
Source Number: 74GBq-19								
Master Calibration					Performed: Thu May 21 10:43:15 2020			
	Background	Aluminum	Magnesium					
Window 1	531.08	5459.71	23833.72	cps				
Window 2	42.08	1230.06	5814.64	cps				
Window 4	232.81	1236.34	5296.40	cps				
Window 5	564.62	8687.43	16546.07	cps				
Window 6	44.20	1453.03	2846.27	cps				
Window 8	270.67	2786.28	5209.33	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8459	SS Alpha:	: -0.7701	LS CPE:		: 1.1427		
LS Beta:	: 125609.8082	SS Beta:	: 19396.7594	SS CPE:		: 1.5007		
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: Thu May 21 10:43:15 2020	
Results	Readings		References (in)		
	Low	High	Low	High	
	4564.4	7712.2	8.0	14.0	
					Gain
					Offset
					0.0
					-0.8

Before Survey Caliper Verification		Performed:	
	Reference	Reading	
Caliper (in)			

After Survey Caliper Verification		Performed:	
	Reference	Reading	
Caliper (in)			

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 Dec 10 10:02:55 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4800	GAPI/cps