



DUAL INDUCTION LOG

Company K&N PETROLEUM, INC.		Company K&N PETROLEUM, INC.	
Well SCHLESSIGER #3-1		Well SCHLESSIGER #3-1	
Field CLAFLIN		Field CLAFLIN	
County BARTON		County BARTON	
State KANSAS		State KANSAS	
Location: API #: 15-009-26326-0000		Other Services CDL/CNL SONIC	
SEC 3 TWP 18S RGE 11W		Elevation	
Permanent Datum GROUND LEVEL Elevation 1799		K.B. 1809	
Log Measured From KELLY BUSHING 10' A.G.L.		D.F. 1807	
Drilling Measured From KELLY BUSHING		G.L. 1799	
Date 12/1/21	Run Number ONE		
Depth Driller 3410	Depth Logger 3410		
Bottom Logged Interval 3408	Top Log Interval 00		
Casing Driller 8 5/8" @ 361	Casing Logger 361		
Bit Size 7 7/8	Type Fluid in Hole CHEMICAL MUD	CHLORIDES 4000 PPM	
Density / Viscosity 9.2/60	pH / Fluid Loss 9.5/8.8		
Source of Sample FLOWLINE	Rm @ Meas. Temp .70 @ 65F		
Rmf @ Meas. Temp .52 @ 65F	Rmc @ Meas. Temp .84 @ 65F		
Source of Rmf / Rmc MEASUREMENT	Rm @ BHT .40 @ 111F		
Time Circulation Stopped 2 HOURS	Time Logger on Bottom	////	
Maximum Recorded Temperature 111F	Equipment Number 3802		
Location HAYS, KANSAS	Recorded By JASON CAPELLUCCI		
Witnessed By JIM MUSGROVE			

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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.

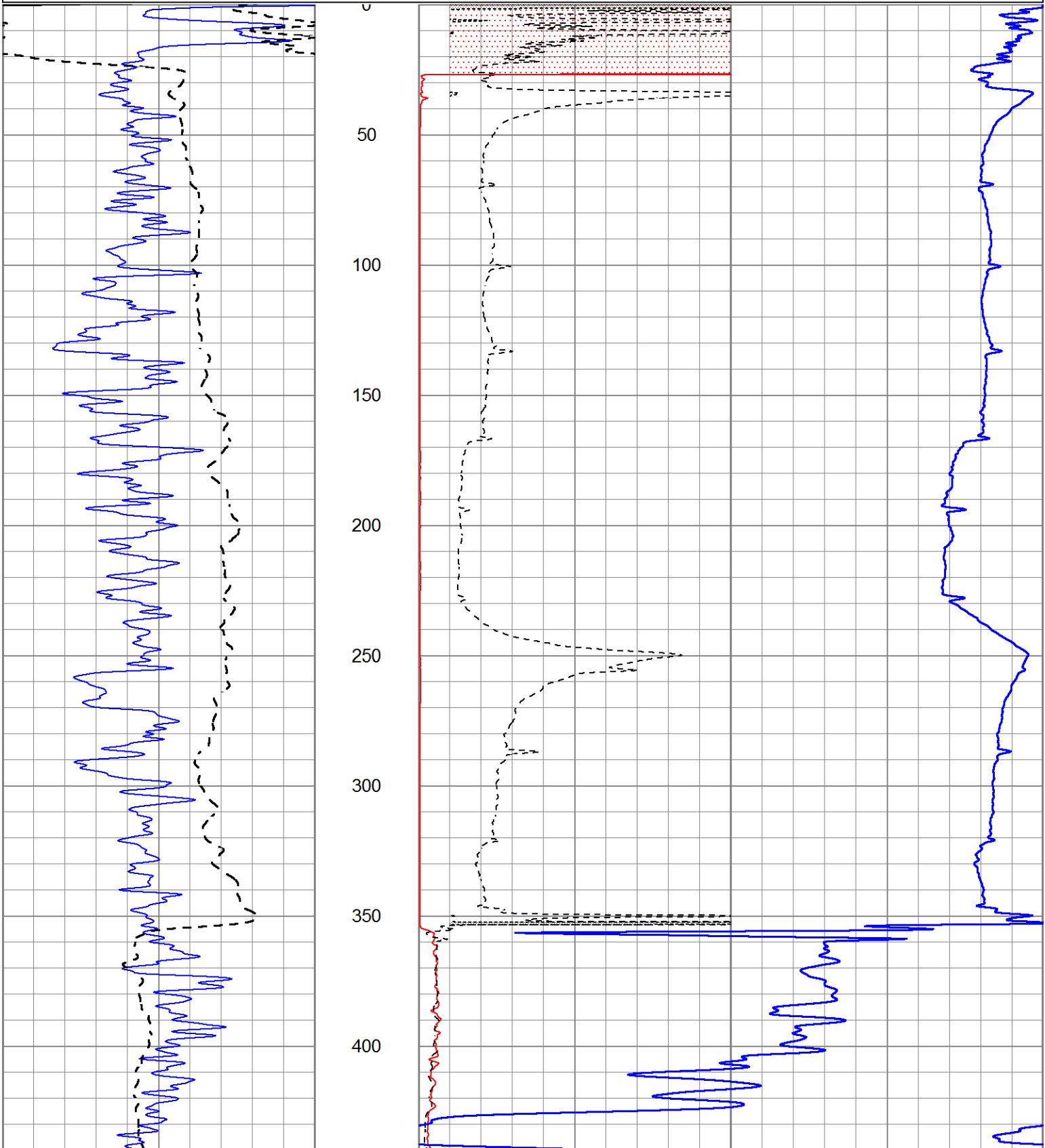
Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
CLAFLIN, KS. - 3/4 SOUTH - EAST INTO

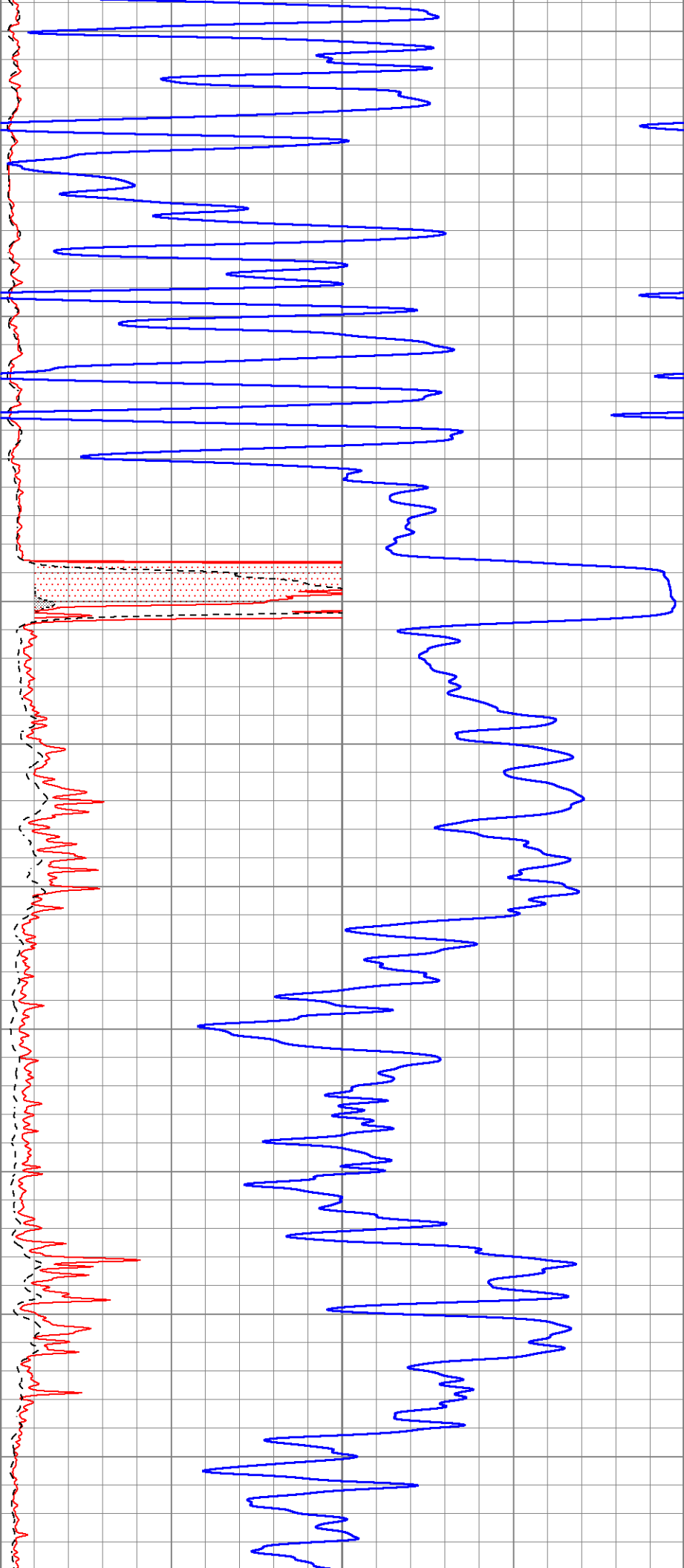
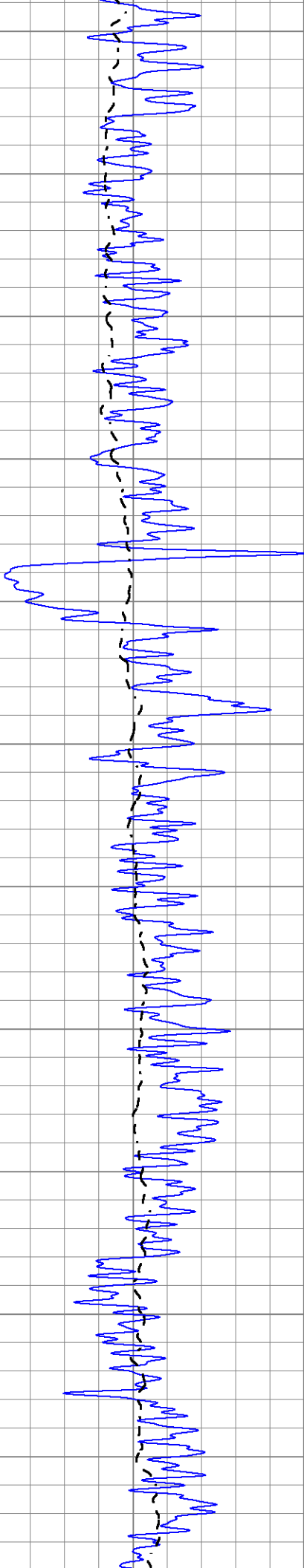


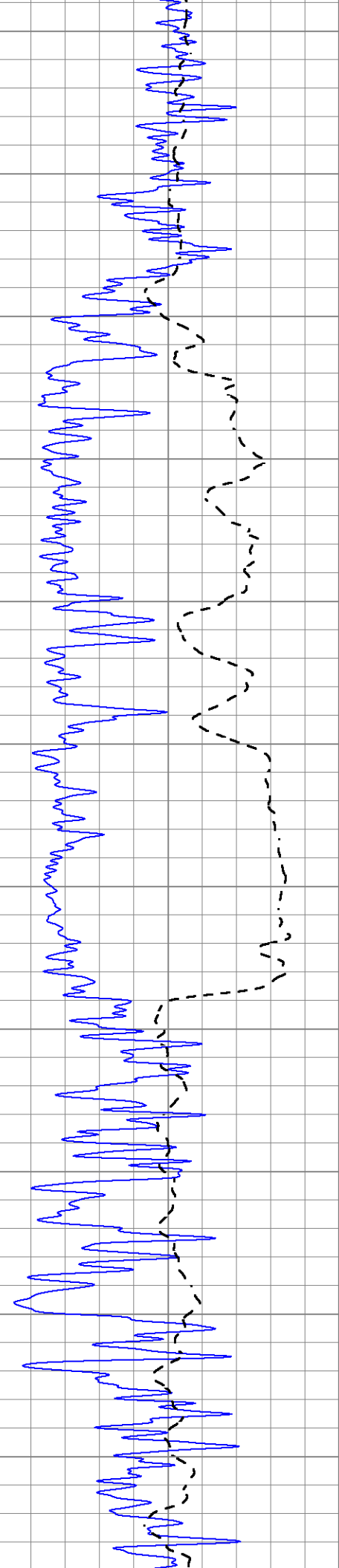
MAIN SECTION

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

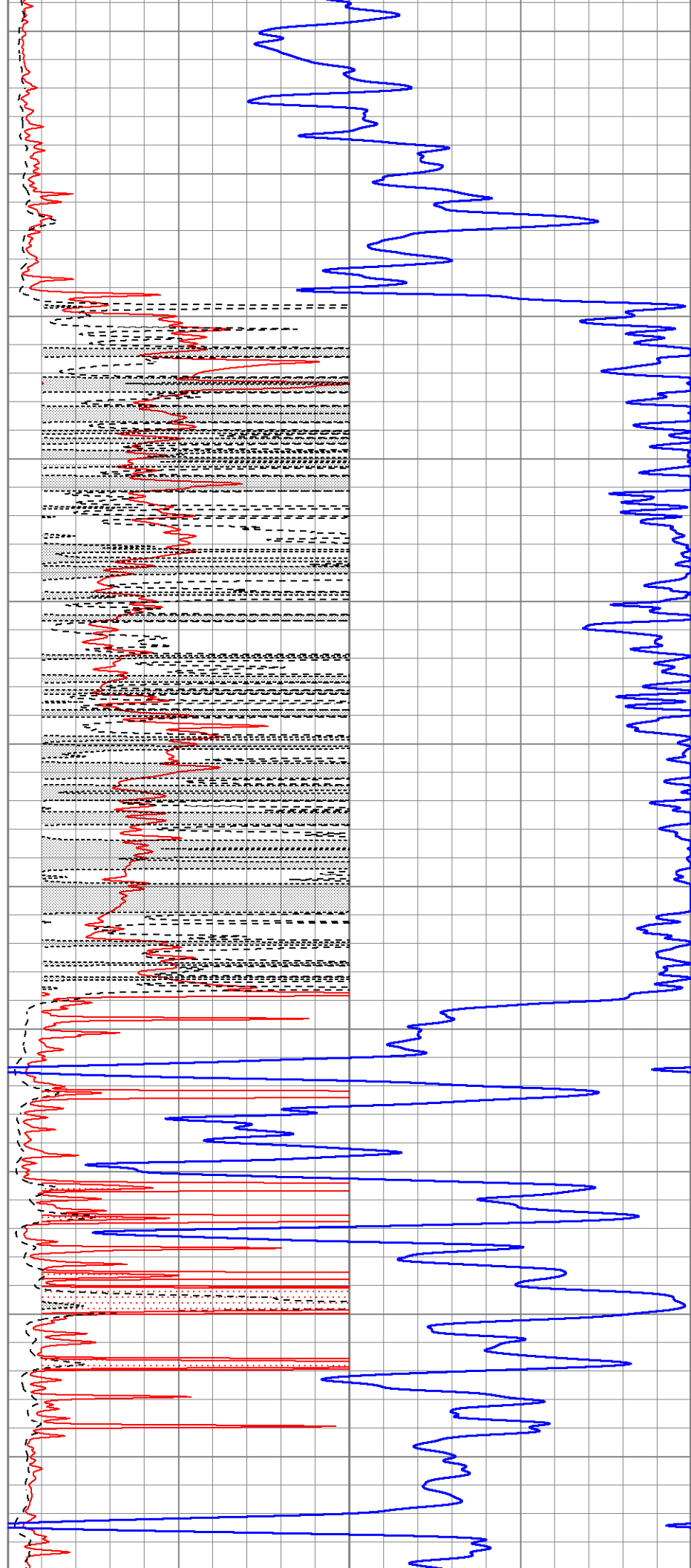


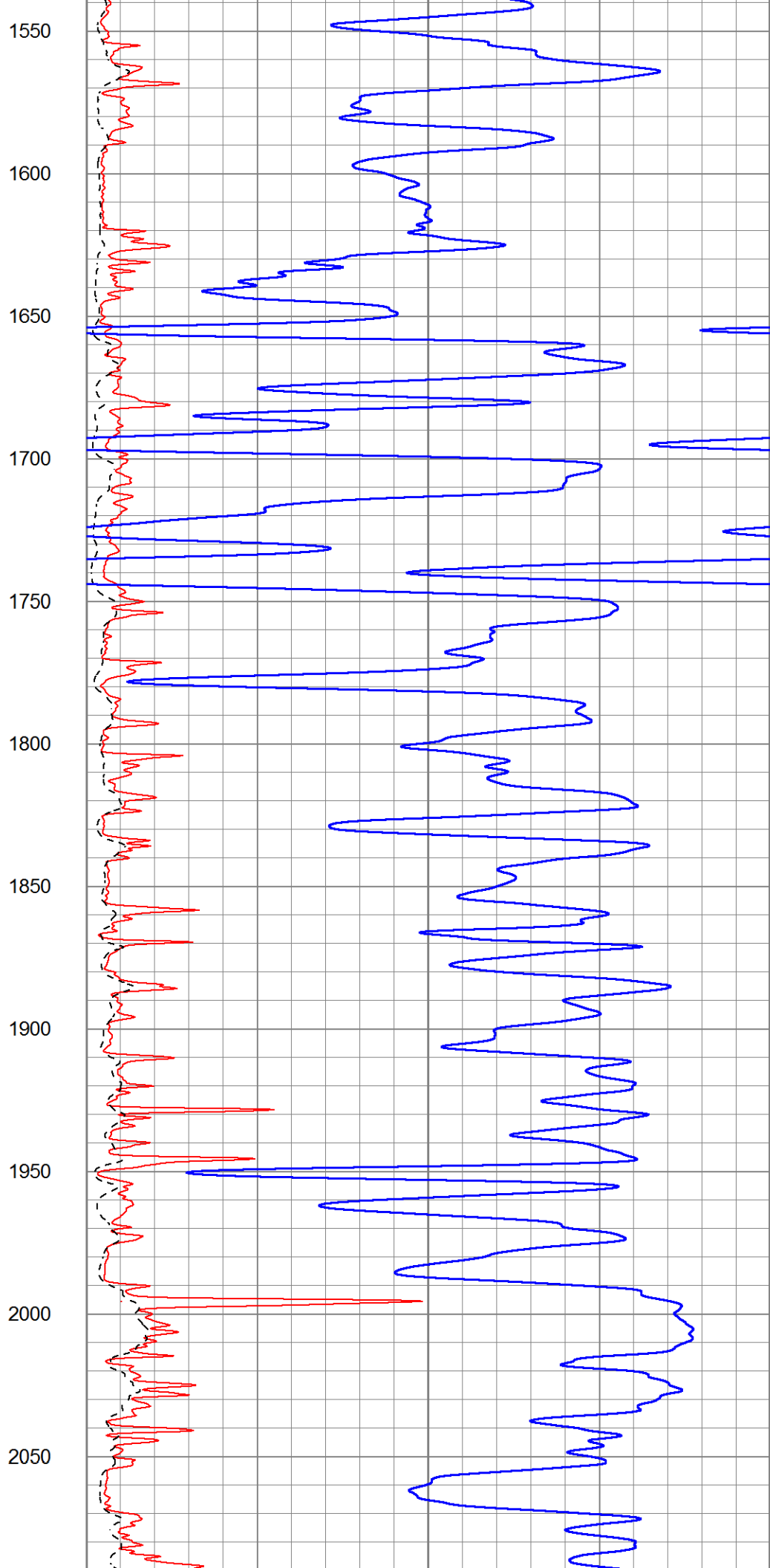
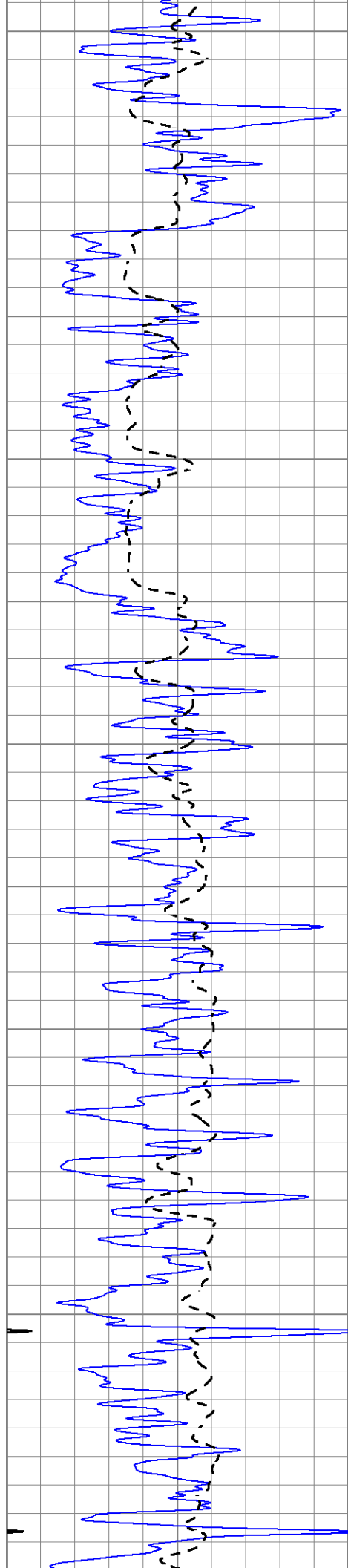
450
500
550
600
650
700
750
800
850
900
950

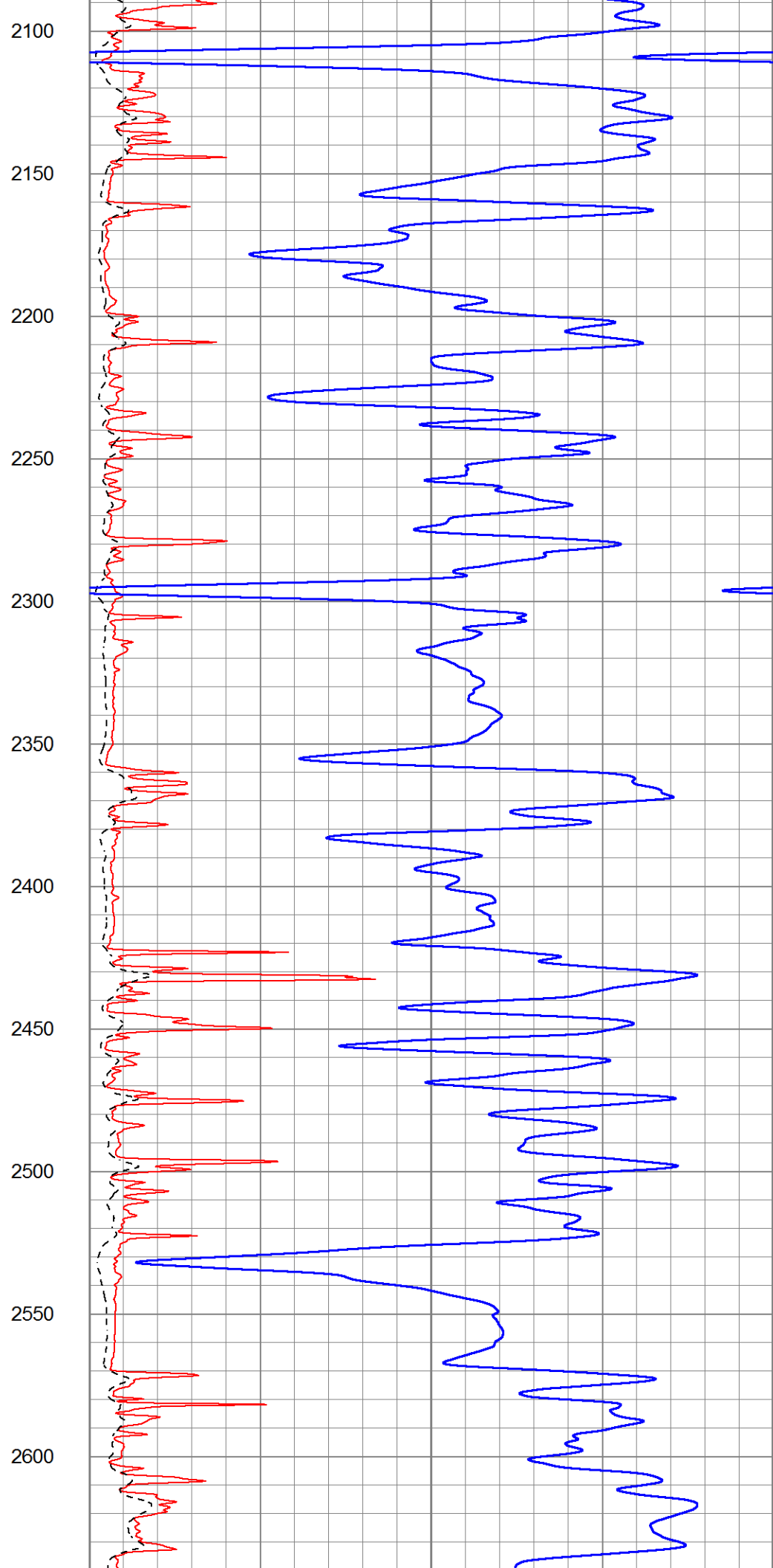
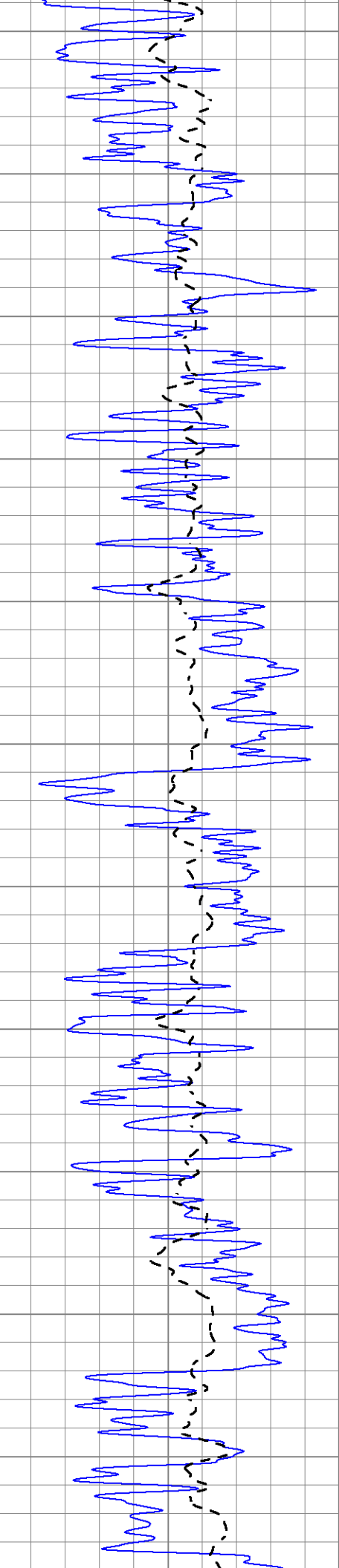


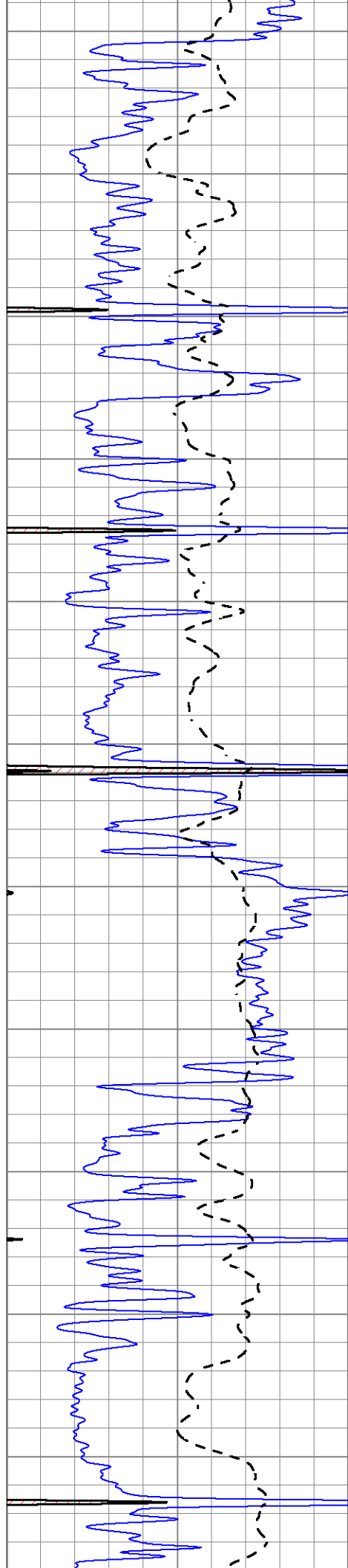


1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500









2650

2700

2750

2800

2850

2900

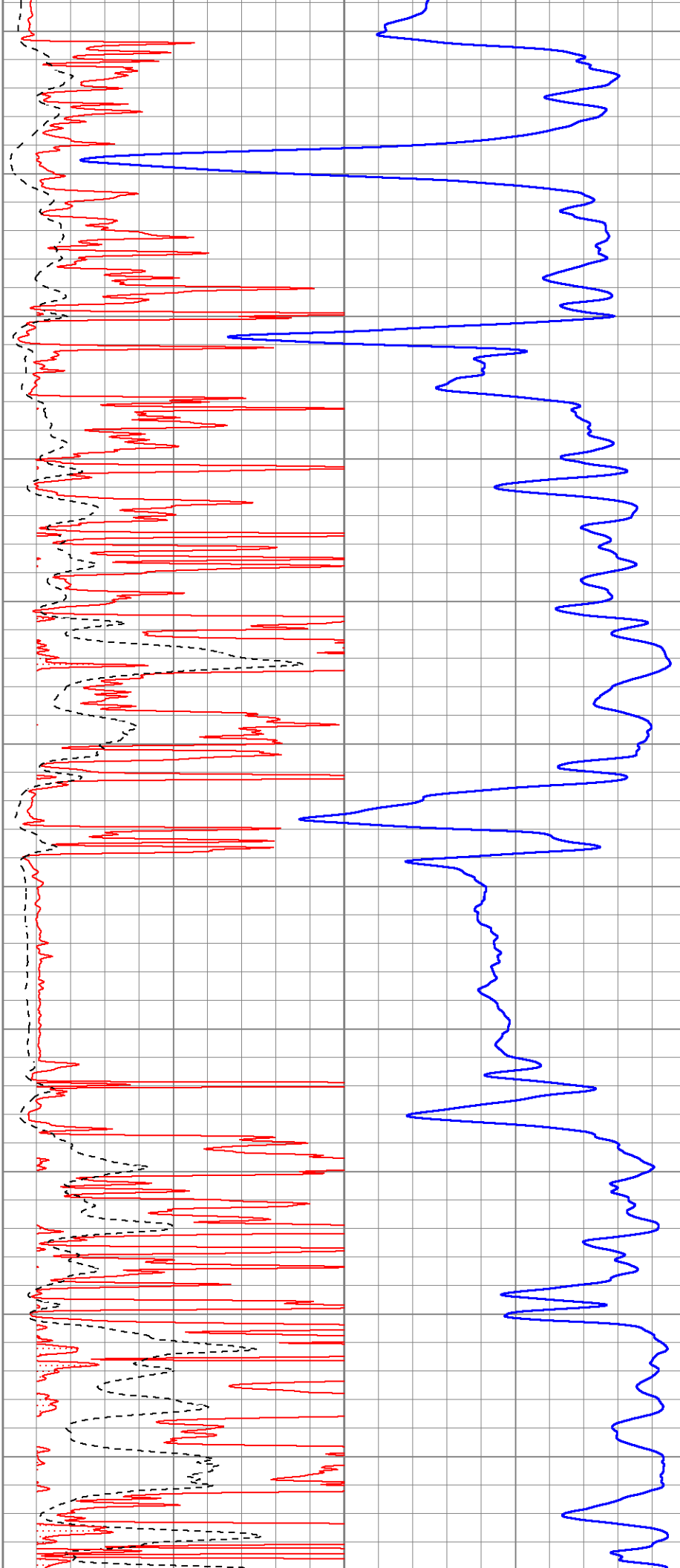
2950

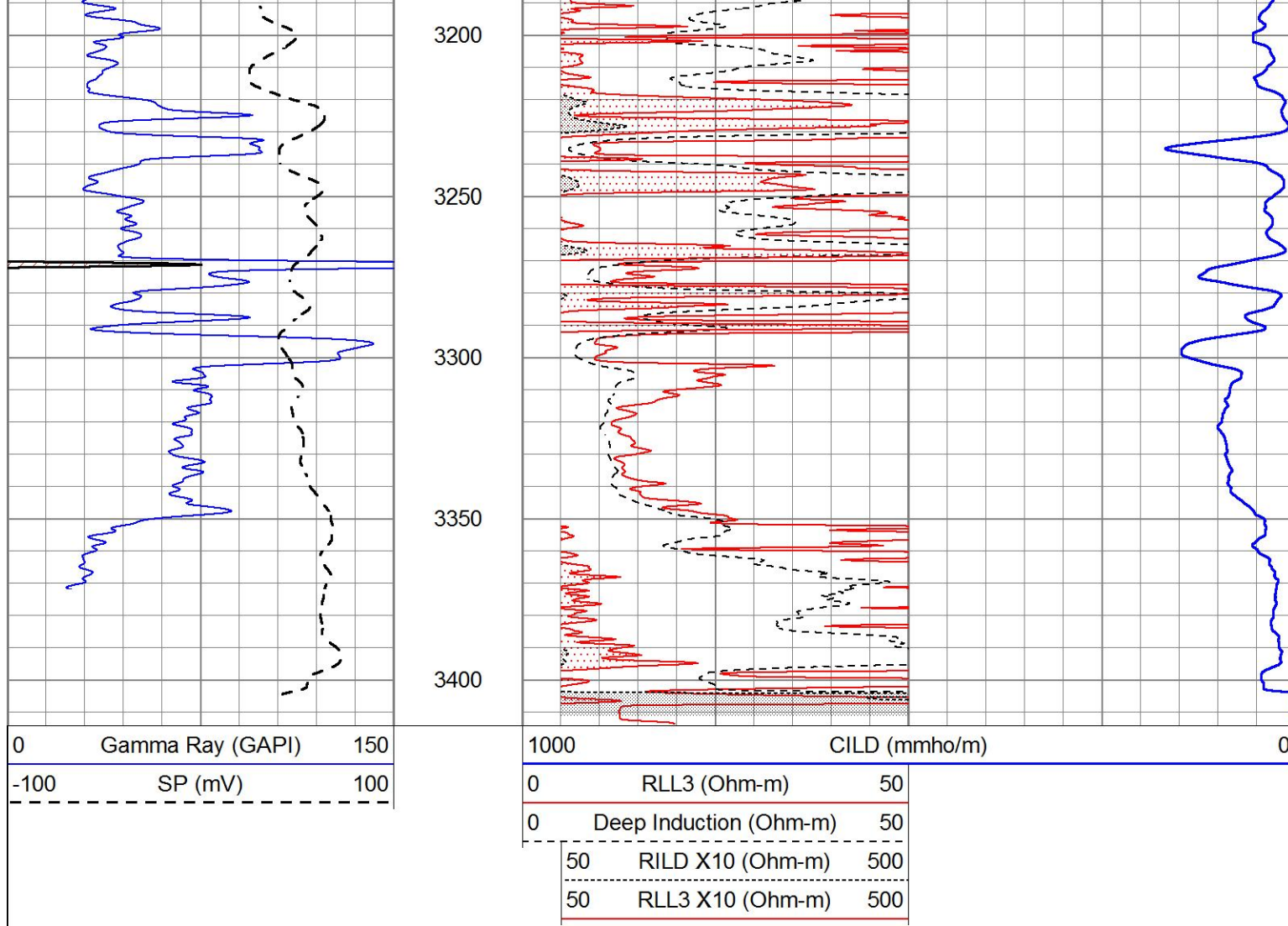
3000

3050

3100

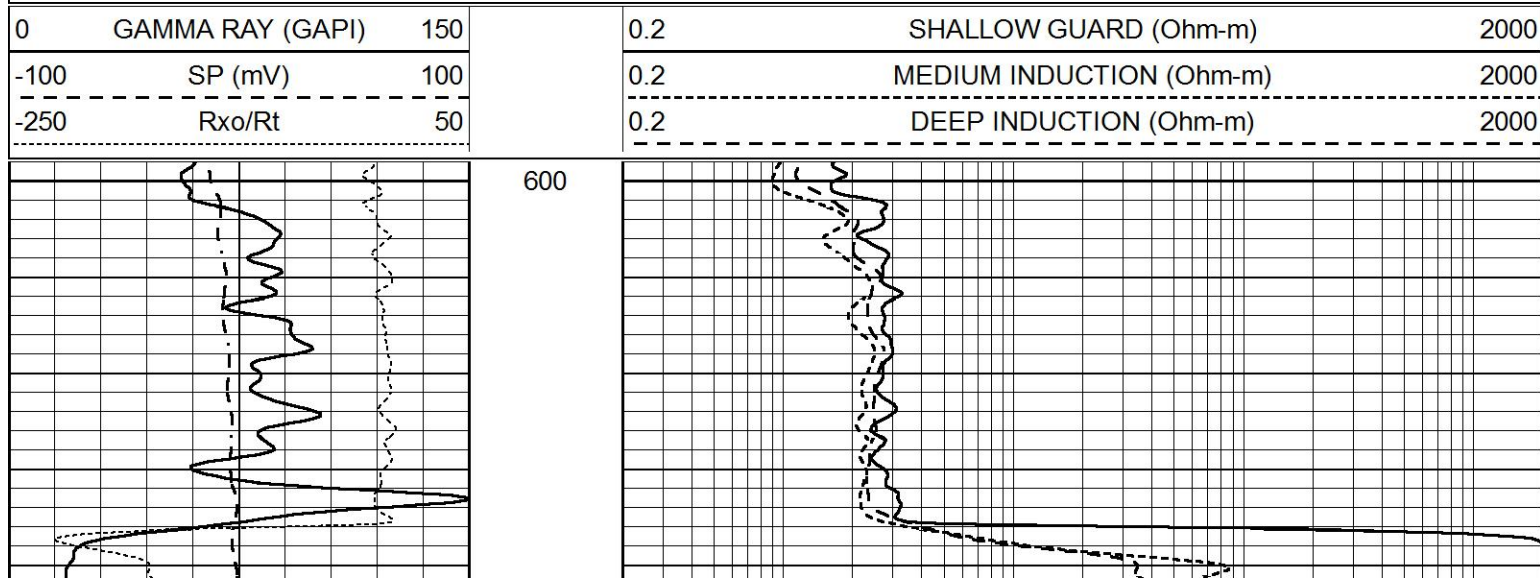
3150

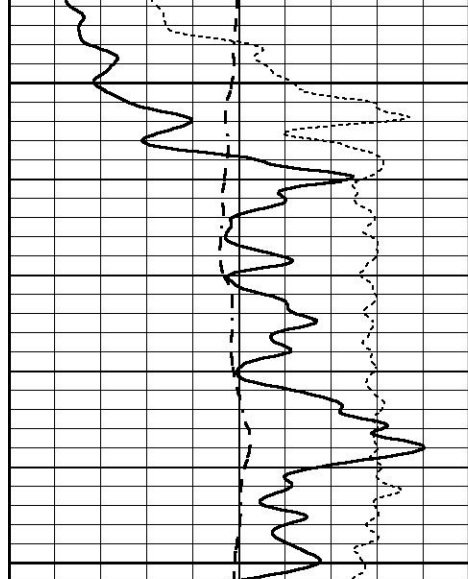




ANHYDRITE

Database File 6056ddn.db
 Dataset Pathname pass5.2
 Presentation Format _dil
 Dataset Creation Wed Dec 01 11:57:29 2021
 Charted by Depth in Feet scaled 1:240

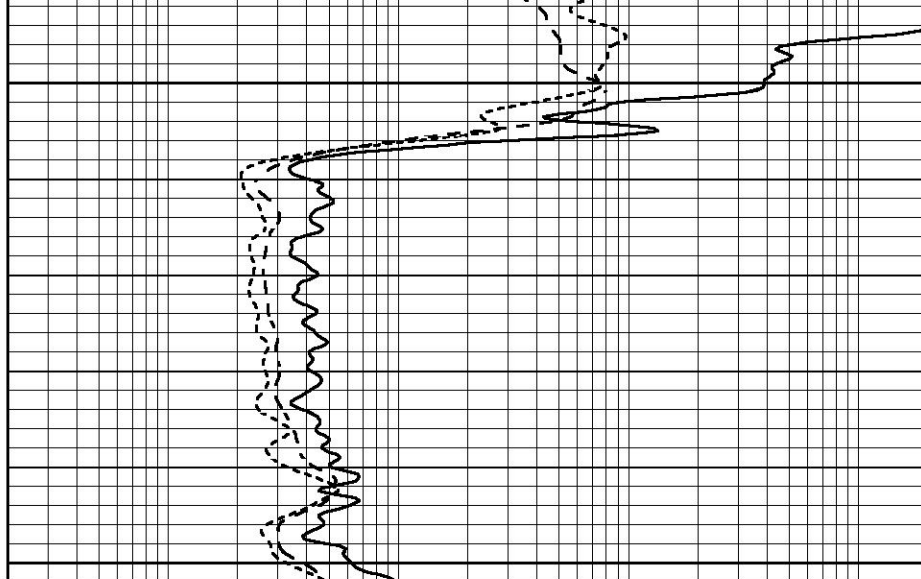




650

700

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

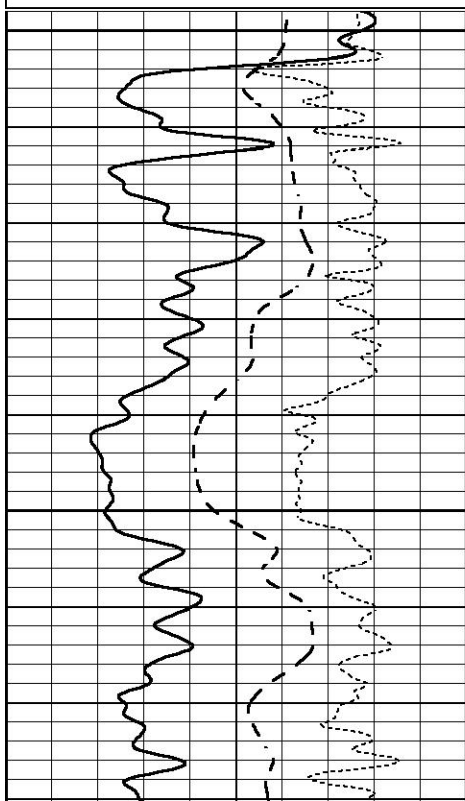


MAIN SECTION

Database File 6056ddn.db
 Dataset Pathname pass5.1
 Presentation Format _dil
 Dataset Creation Wed Dec 01 11:39:47 2021
 Charted by Depth in Feet scaled 1:240

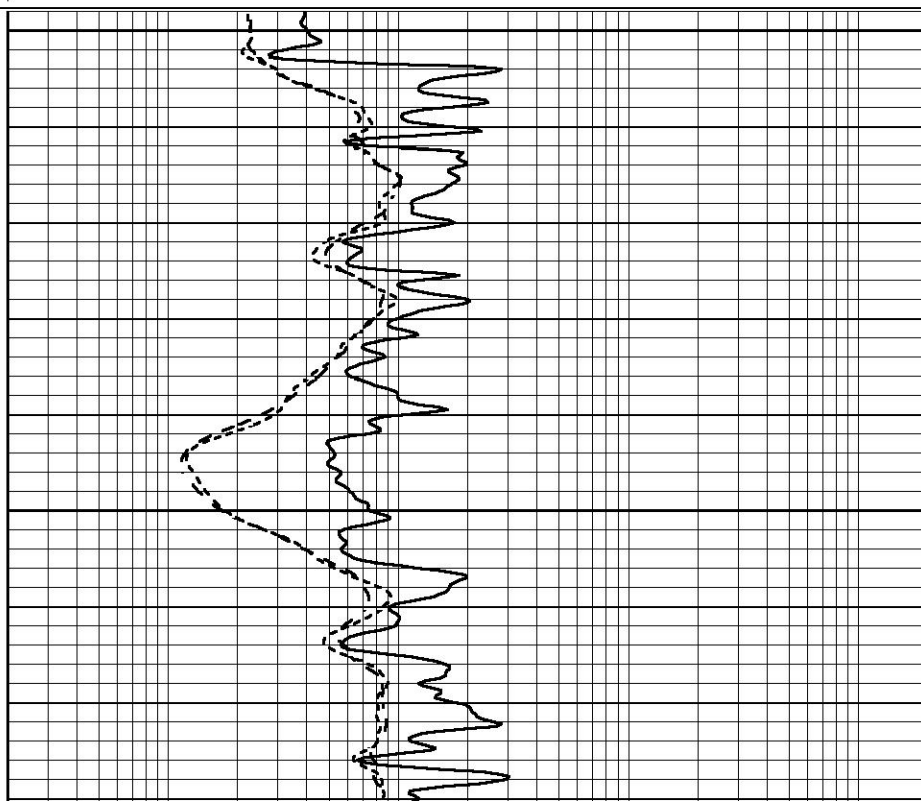
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

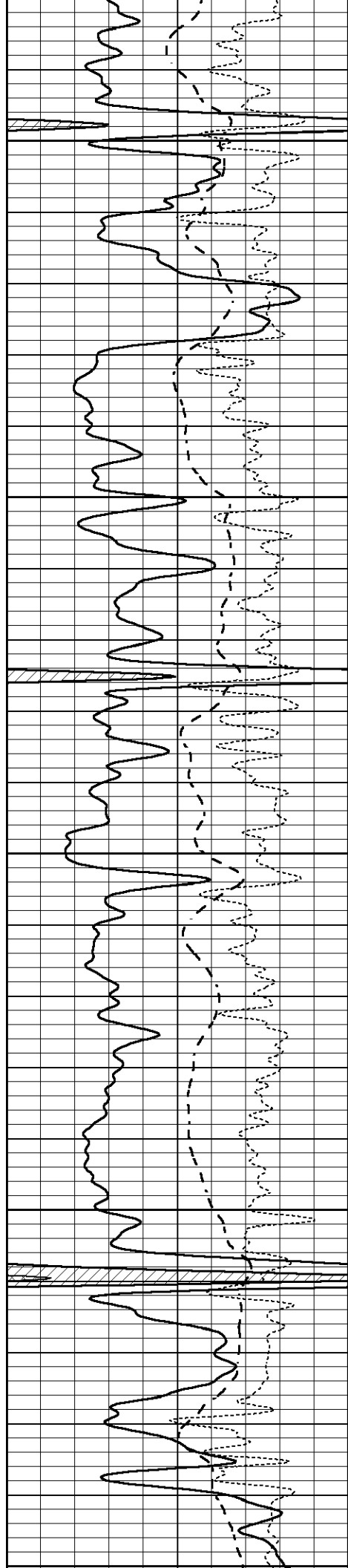
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



2650

2700





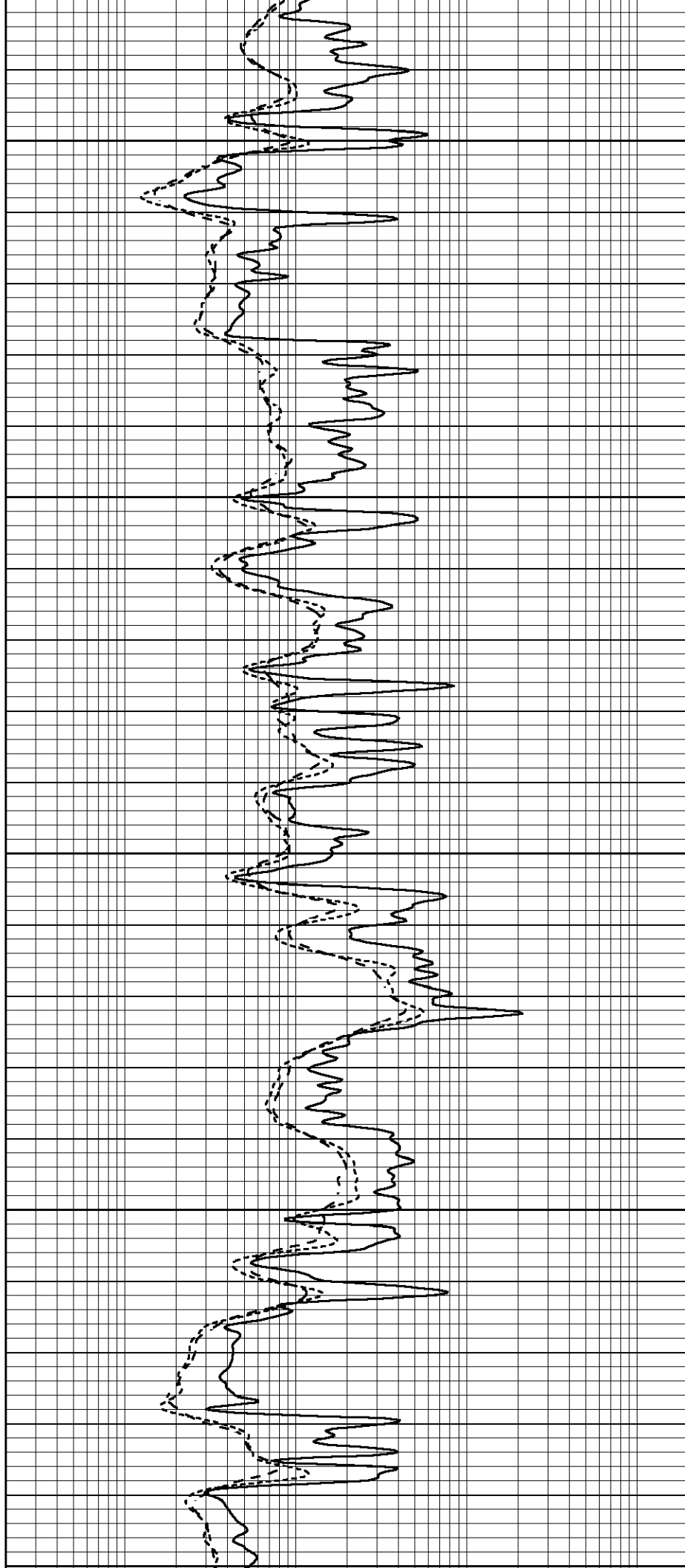
2750

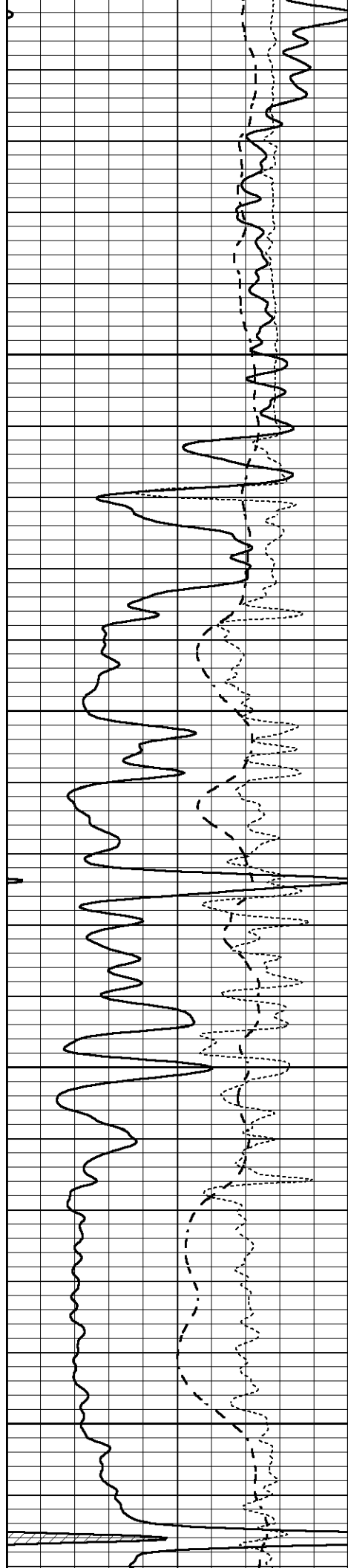
2800

2850

2900

2950





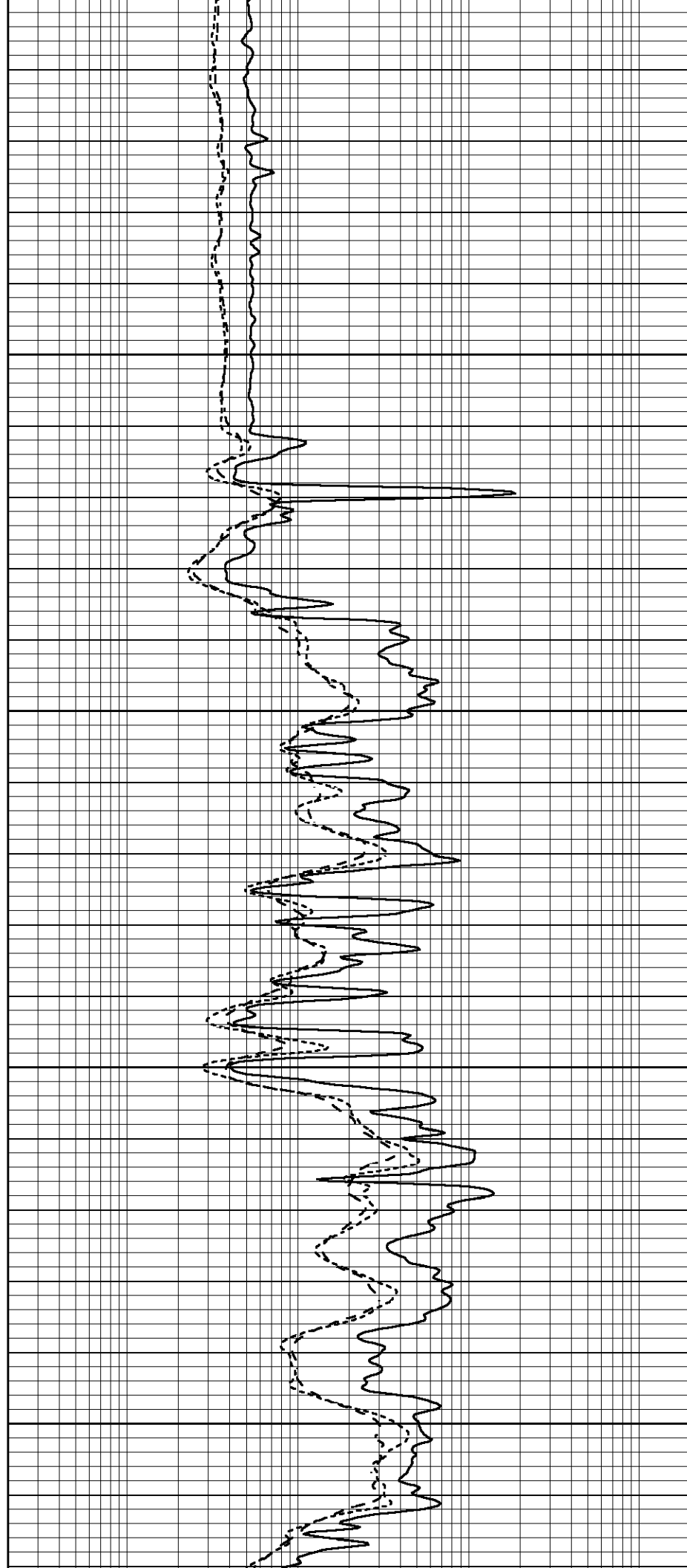
2550

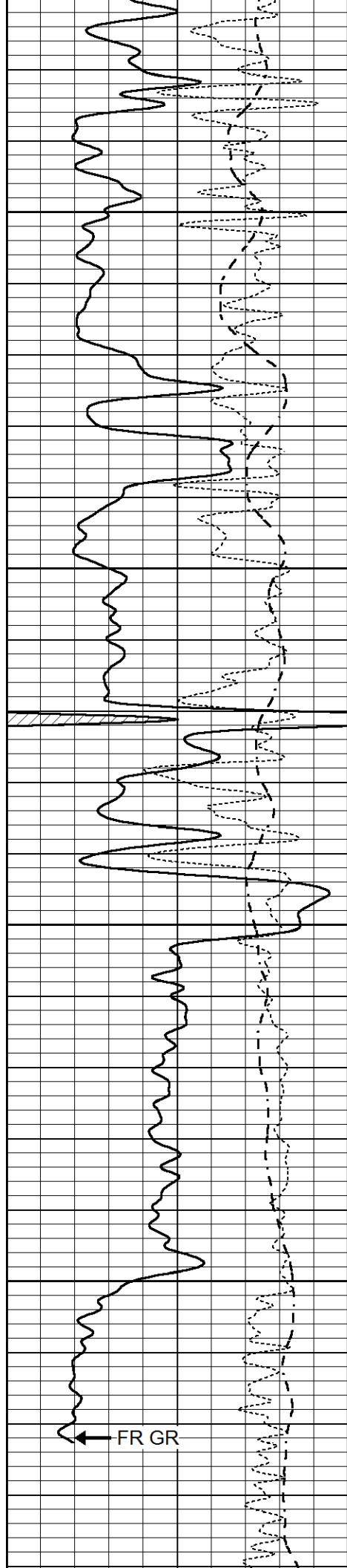
3000

3050

3100

3150





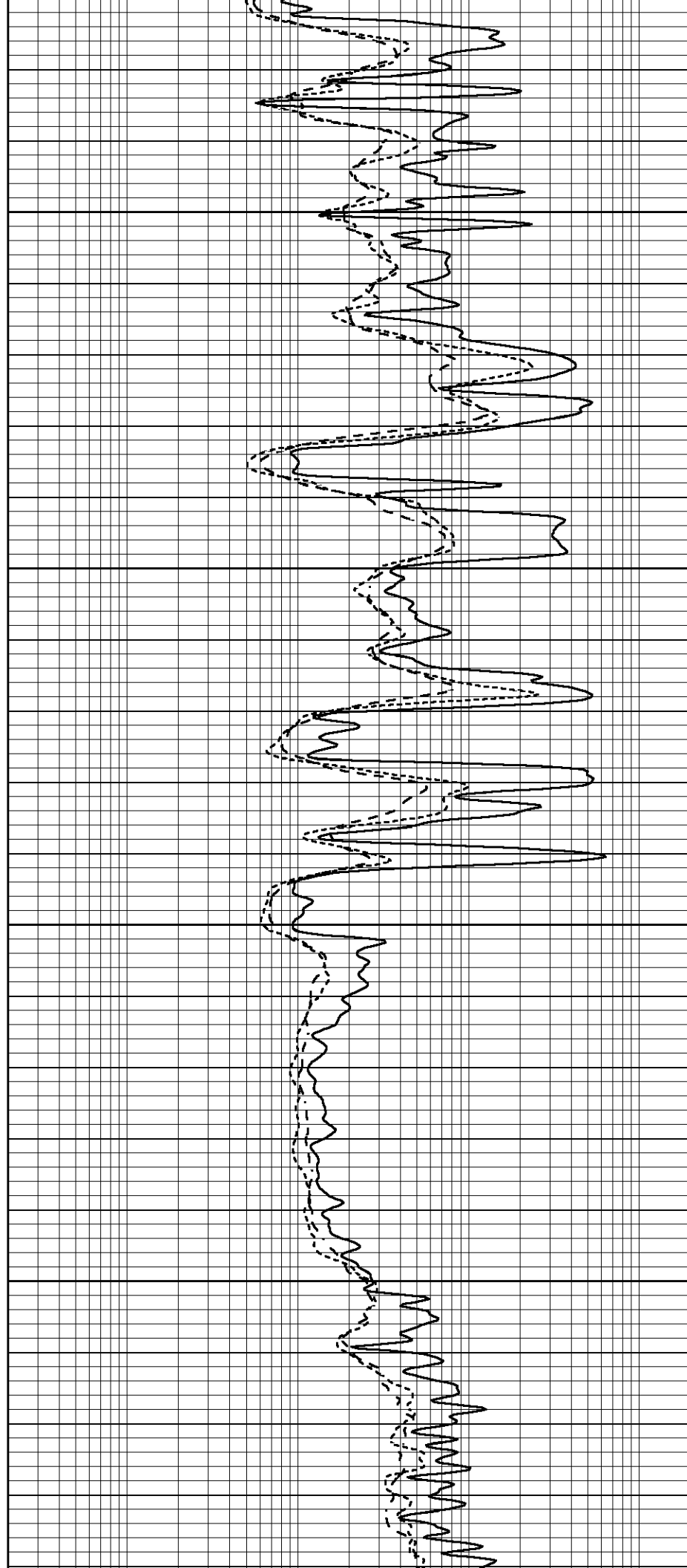
3200

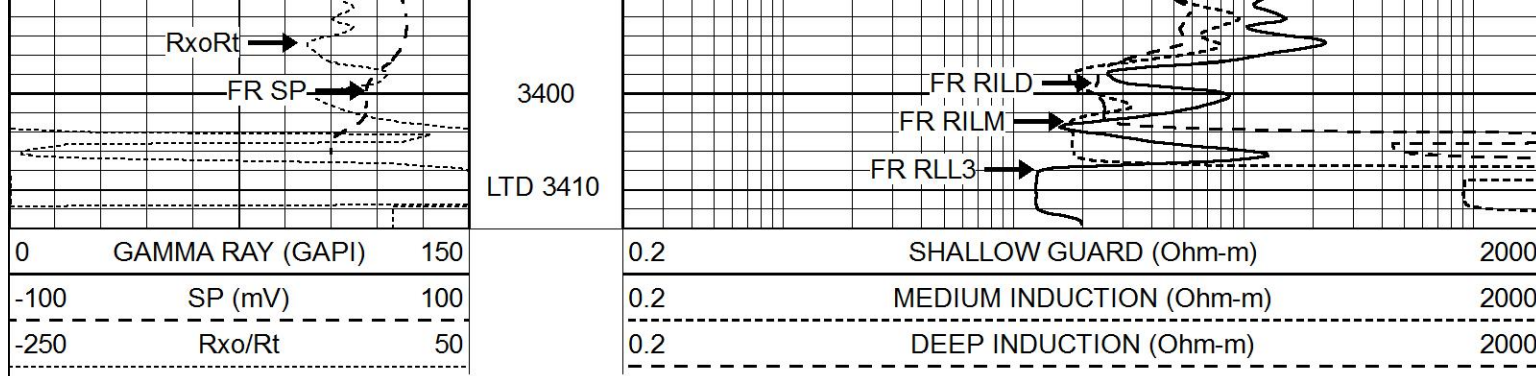
3250

3300

3350

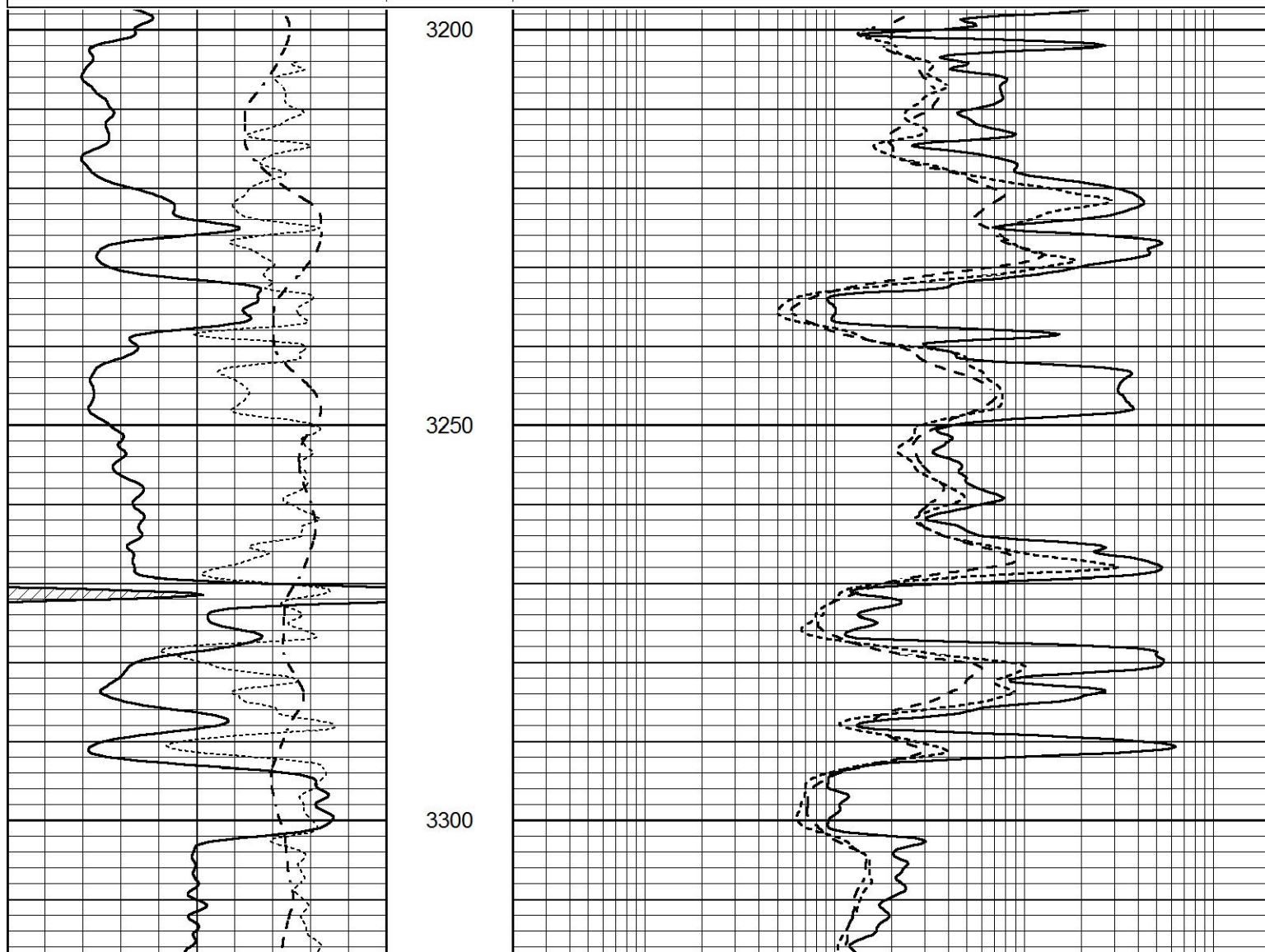
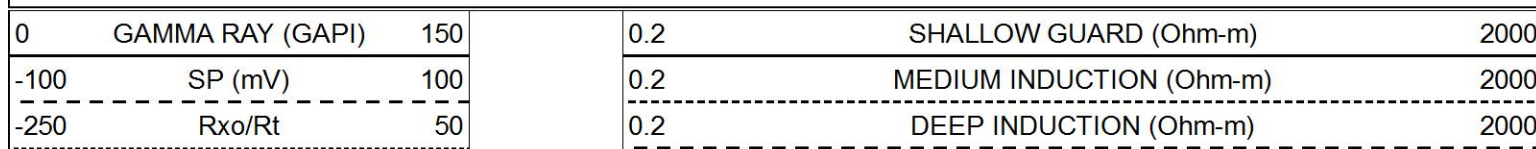
FR GR

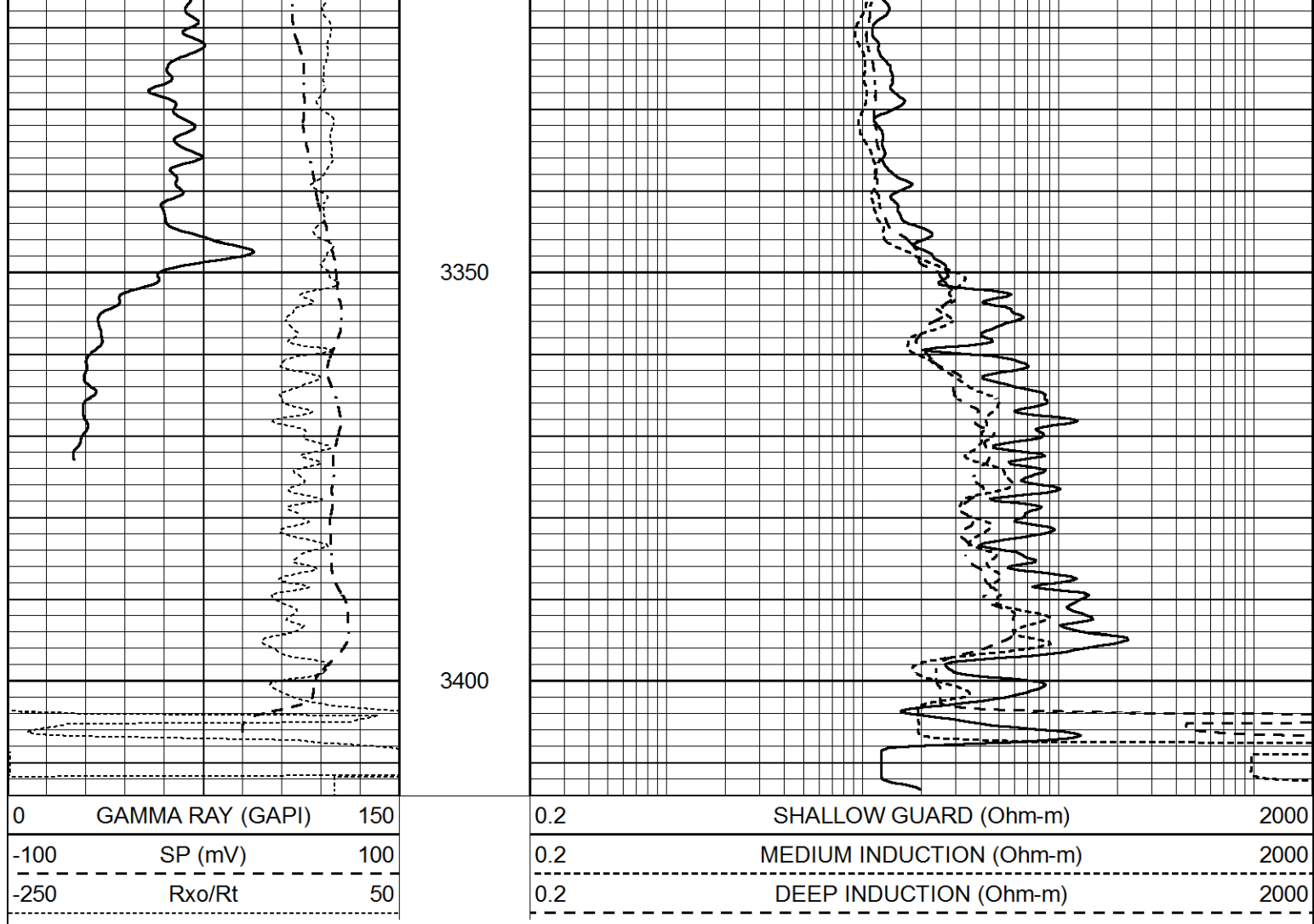




REPEAT SECTION

Database File 6056ddn.db
 Dataset Pathname pass4.1
 Presentation Format _dil
 Dataset Creation Wed Dec 01 11:38:37 2021
 Charted by Depth in Feet scaled 1:240





Calibration Report								
Database File	6056ddn.db							
Dataset Pathname	pass4.1							
Dataset Creation	Wed Dec 01 11:38:37 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								
Readings				References			Results	
Loop:	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: 140704 Model: V4_10P Source Number: 74GBq-19								
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Master Calibration				Performed: Mon Dec 07 12:12:14 2020				
	Background	Aluminum	Magnesium					
Window 1	557.73	5525.14	24361.20	cps				
Window 2	47.08	1245.09	5901.17	cps				
Window 4	239.06	1250.70	5456.76	cps				
Window 5	564.08	8300.56	16134.07	cps				
Window 6	44.21	1356.78	2705.40	cps				
Window 8	267.87	2686.97	5150.30	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8719	SS Alpha:	: -0.8000	LS CPE:		: 1.1424		
LS Beta:	: 135562.6841	SS Beta:	: 20128.7209	SS CPE:		: 1.5489		

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: Mon Dec 07 12:12:14 2020				
Results	Readings		References (in)		Gain		Offset	
	Low	High	Low	High				
	5852.8	8972.7	8.0	14.0	0.0		-3.4	

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 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	