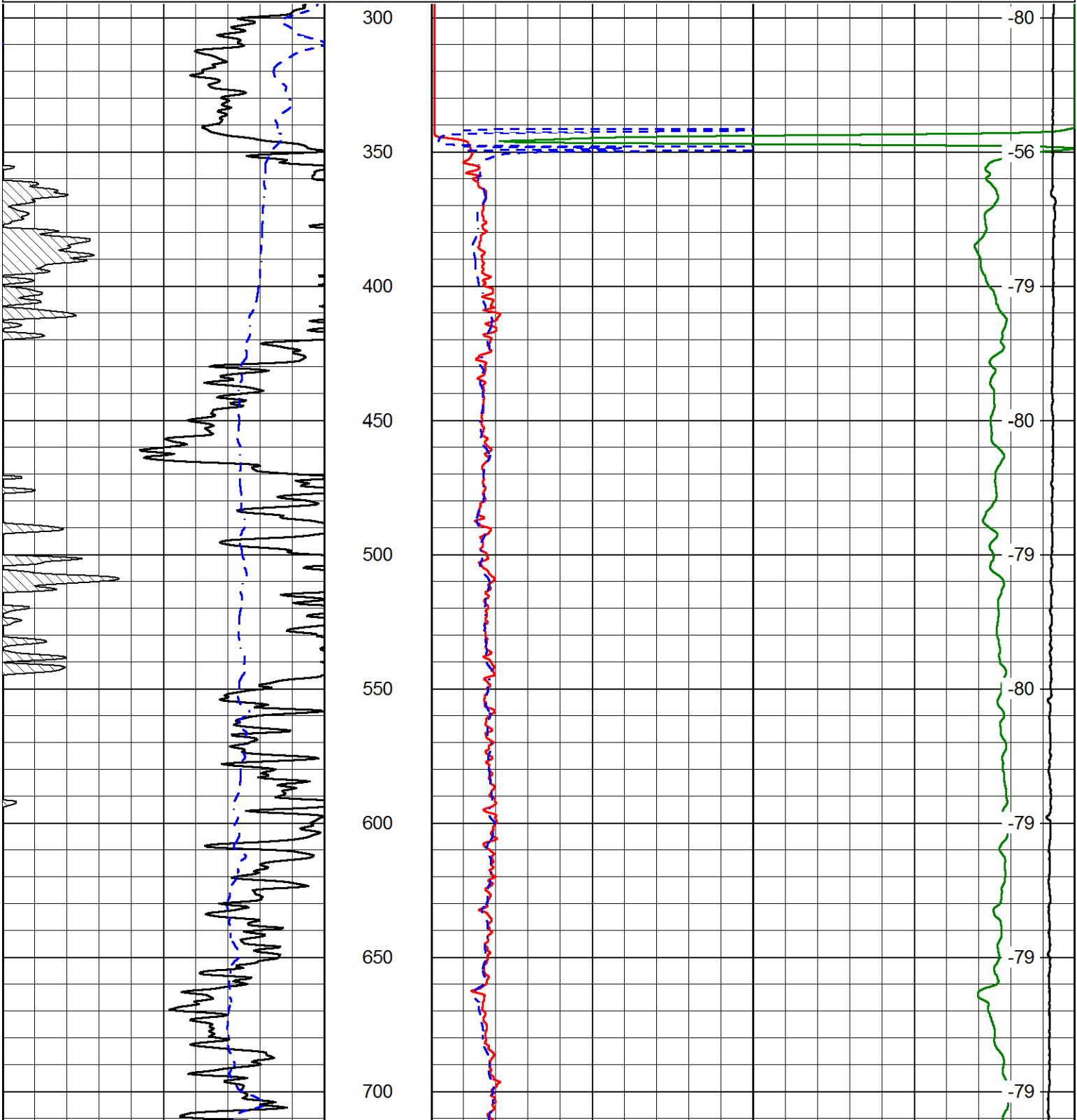
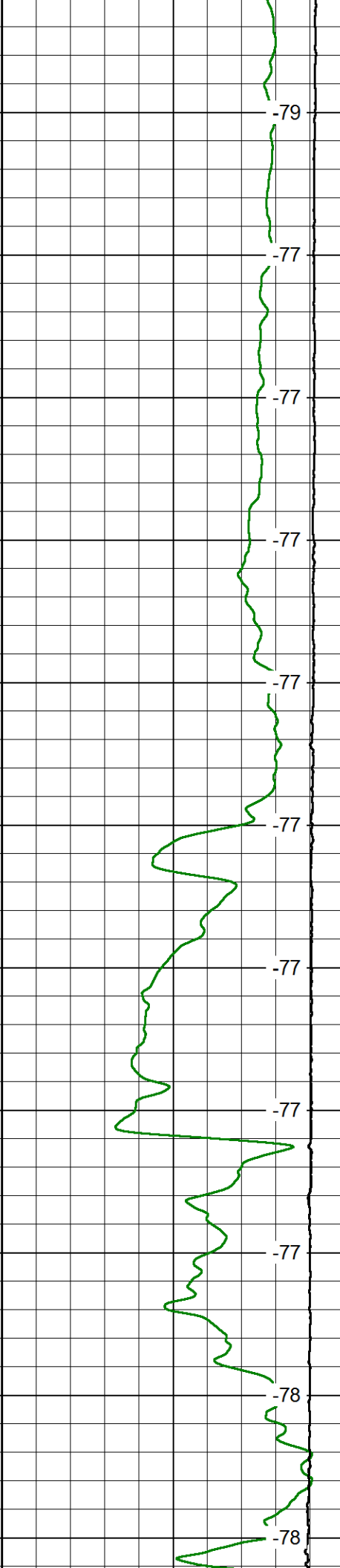
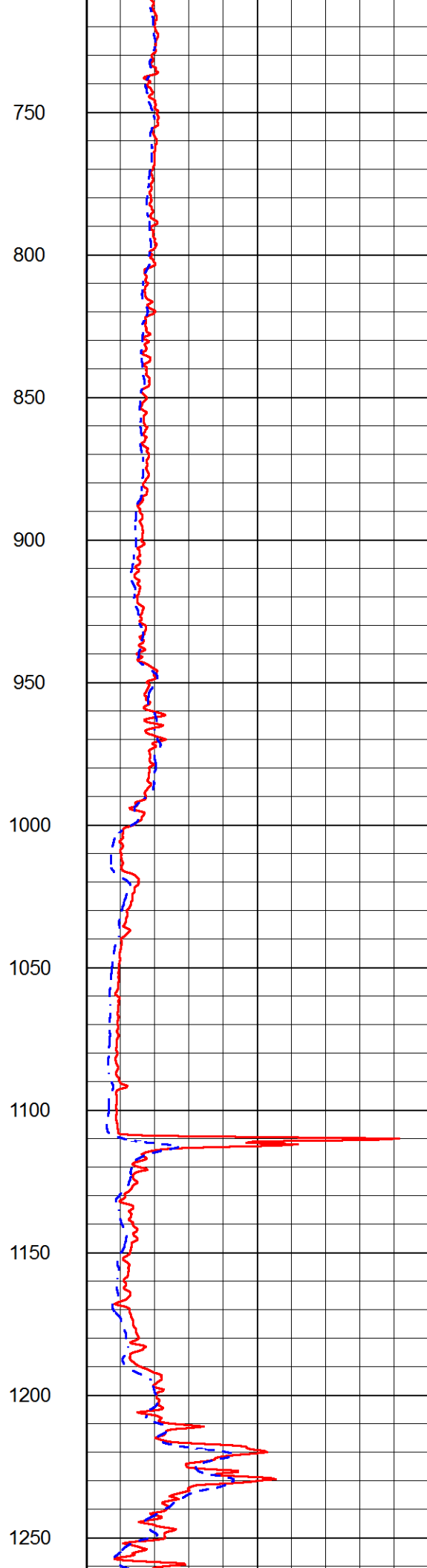
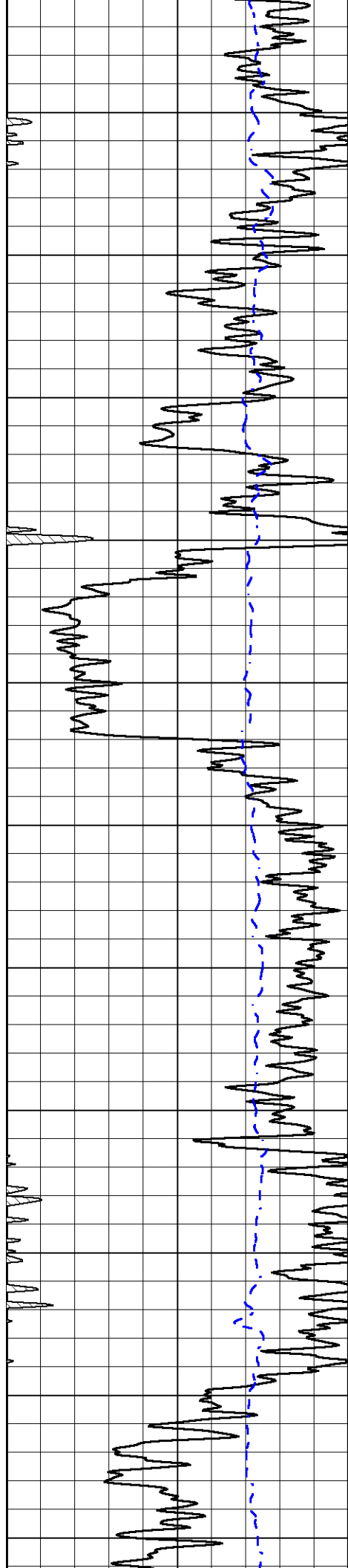


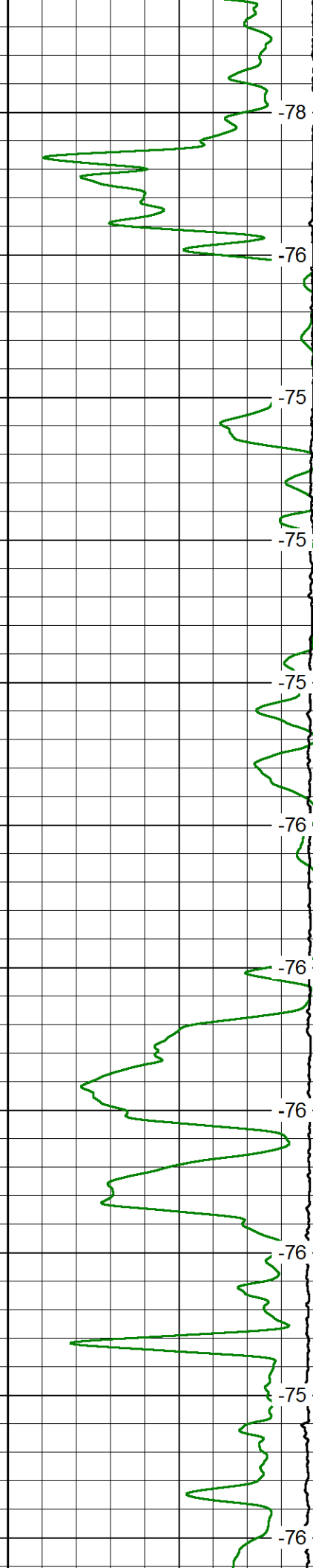
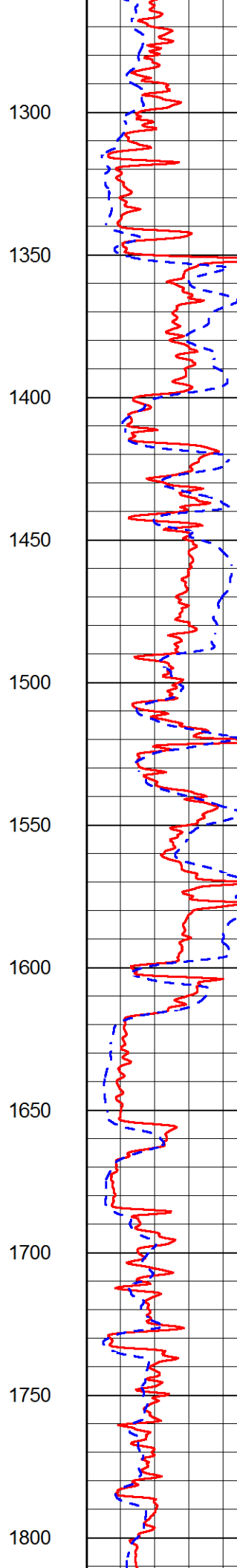
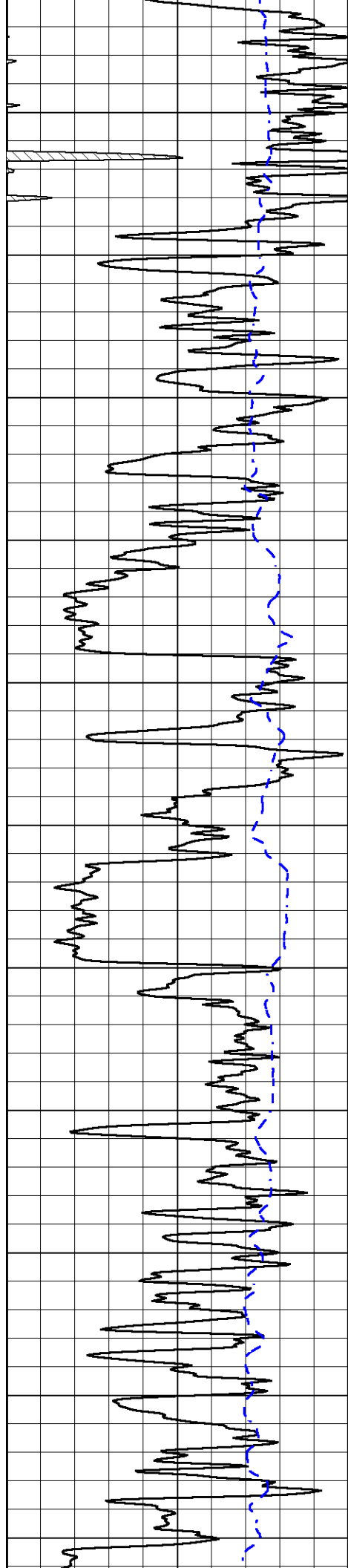
CompanySUEMAUR EXPLOR. & PROD., LLC		Company SUEMAUR EXPLOR. & PROD., LLC.	
Well SCHROEDER #1		Well SCHROEDER #1	
Field WILDCAT		Field WILDCAT	
County SHERIDAN		County SHERIDAN	
State KANSAS		State KANSAS	
Location:		API # : 15-179-21414-00-00	Other Services
SEC 26 TWP 6S RGE 28W		365' FSL AND 2246' FEL	CNL/ CDL MEL/ BHCS
Permanent Datum		GROUND LEVEL	Elevation
Log Measured From		KELLY BUSHING	K.B. 2733'
Drilling Measured From		KELLY BUSHING	D.F. N/A
			G.L. 2728'
Date	12-17-2015		
Run Number	ONE		
Depth Driller	4475'		
Depth Logger	4476'		
Bottom Logged Interval	4475'		
Top Log Interval	300'		
Casing Driller	8.625" @ 346'		
Casing Logger	345'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity ,ppm CL	900		
Density / Viscosity	9.5	65	
pH / Fluid Loss	10.5	6.0	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.58 @ 42		
Rmt @ Meas. Temp	0.44 @ 42		
Rmc @ Meas. Temp	0.78 @ 42		
Source of Rmt/ Rmc	Charts		
Rm @ BHT	0.20 @ 121		
Operating Rig Time	6 HOURS		
Max Rec. Temp. F	121		
Equipment Number	91		
Location	Hays		
Recorded By	M. HISS	D. SCHMIDT	
Witnessed By	BOB PETERSEN		

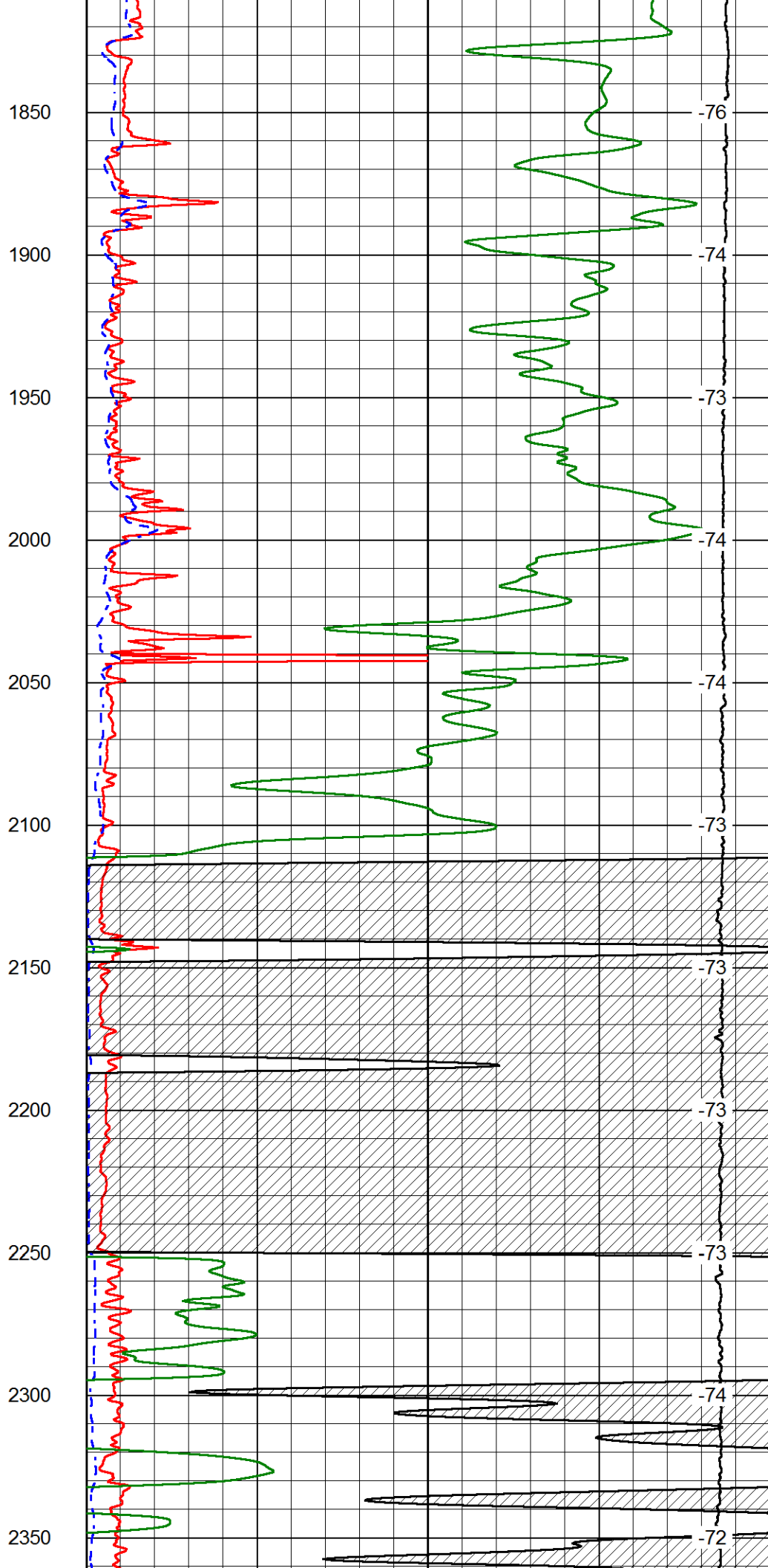
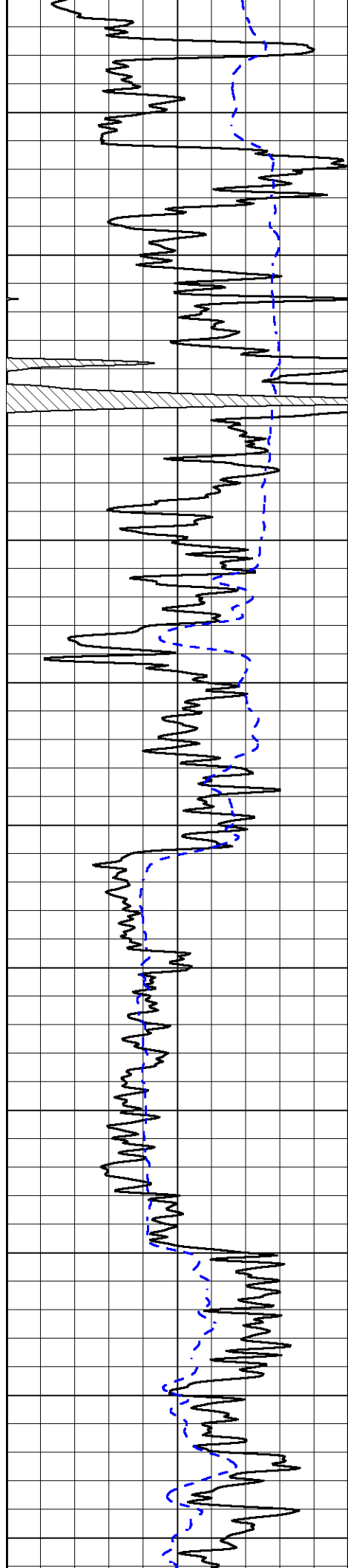
<<< Fold Here >>>	
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.	
Comments	
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE. HOXIE, KS. NORTH AT HWY 24 & 23 JCT, 9.5 MILES NORTH TO RD 100, EAST 1.6 MILES, NORTH INTO	
Log Measured From: KELLY BUSHING 5' Ft. Above Permanent Datum THANK YOU FOR USING PIONEER ENERGY SERVICES www.pioneerres.com 785-625-3858	
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: M. HISS Operator: D. SCHMIDT Operator: Operator:	Primary Witness: BOB PETERSEN Secondary Witness: Secondary Witness: Secondary Witness:

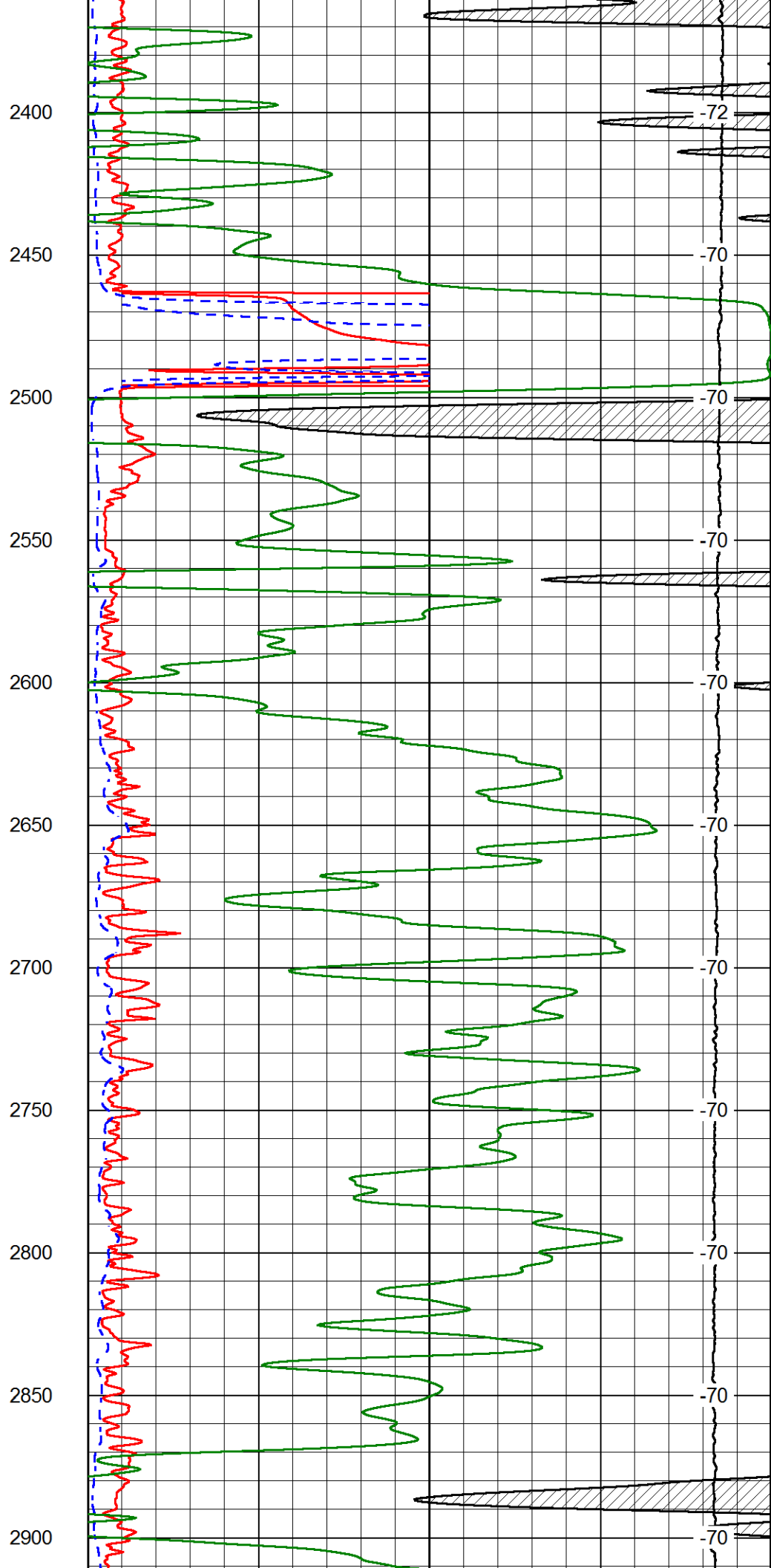
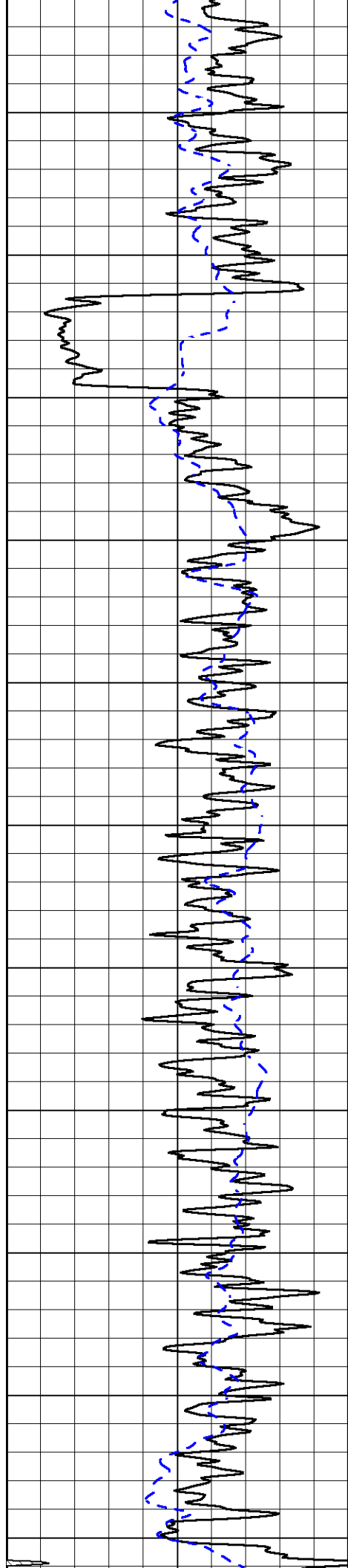
0	Gamma Ray (GAPI)	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		LSPD (ft/min)
			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

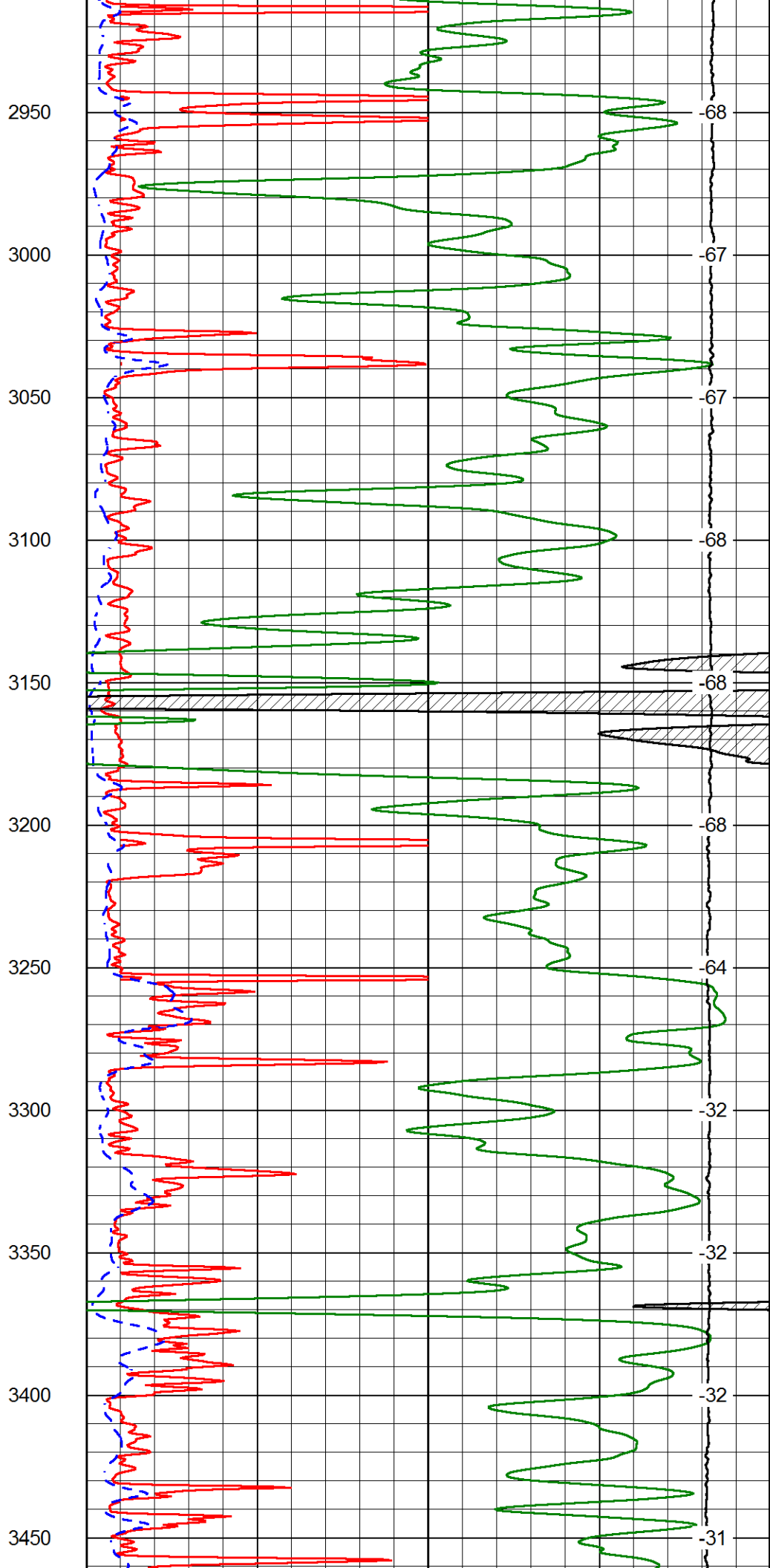
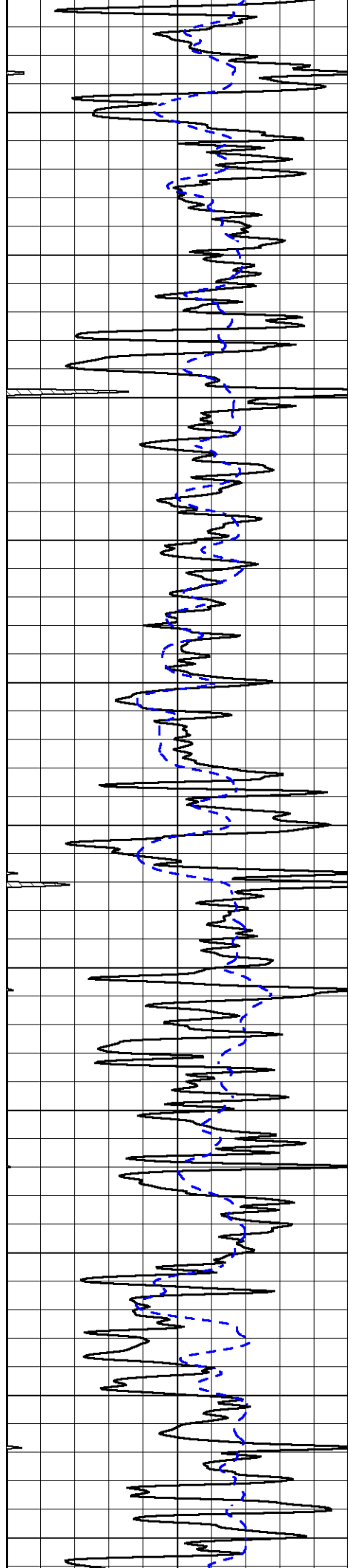


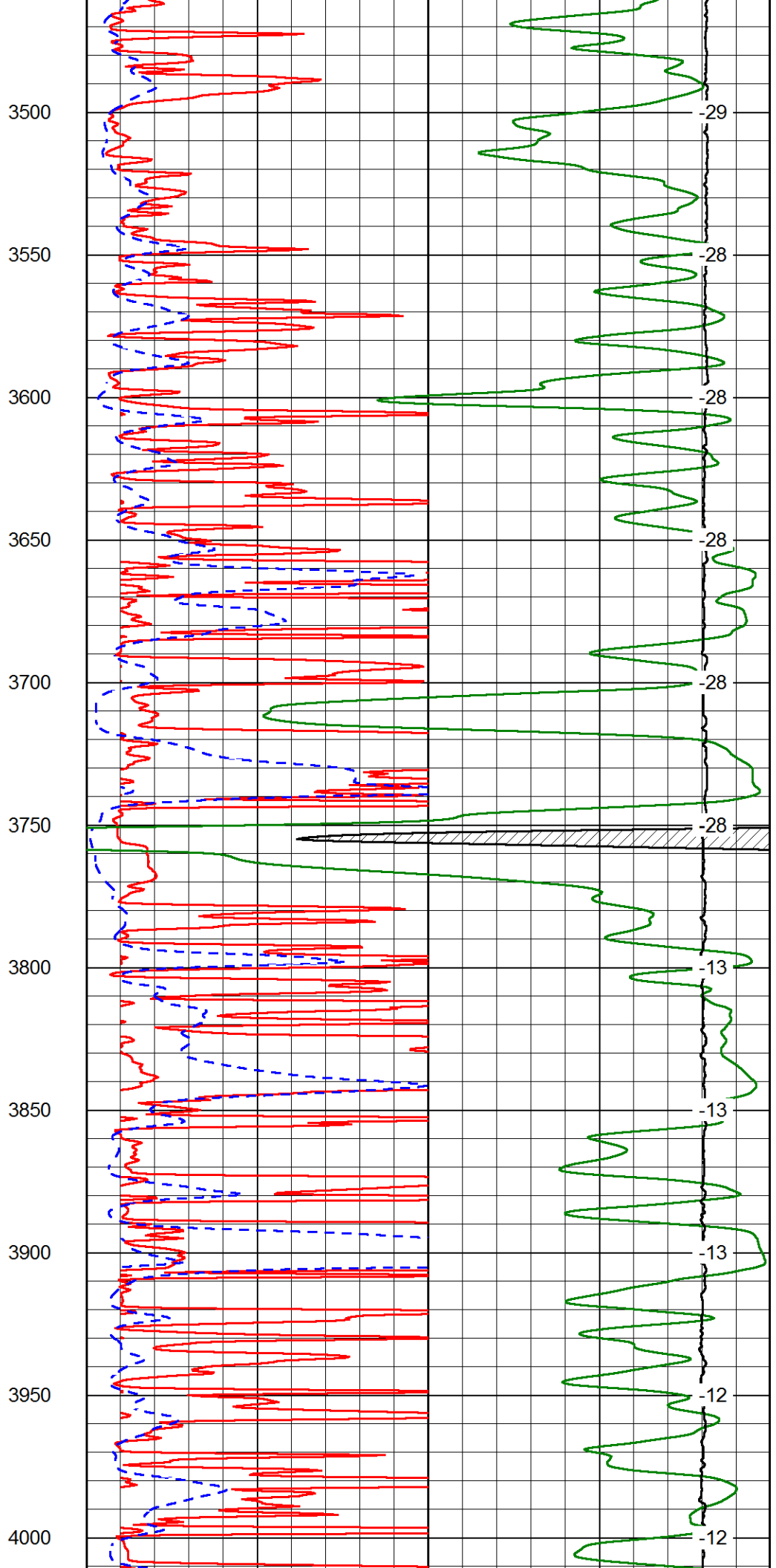
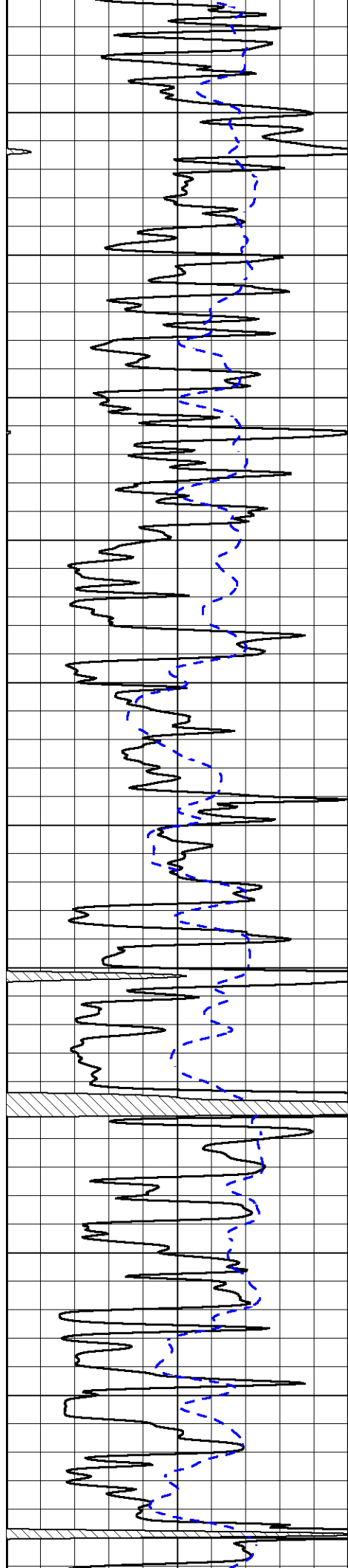


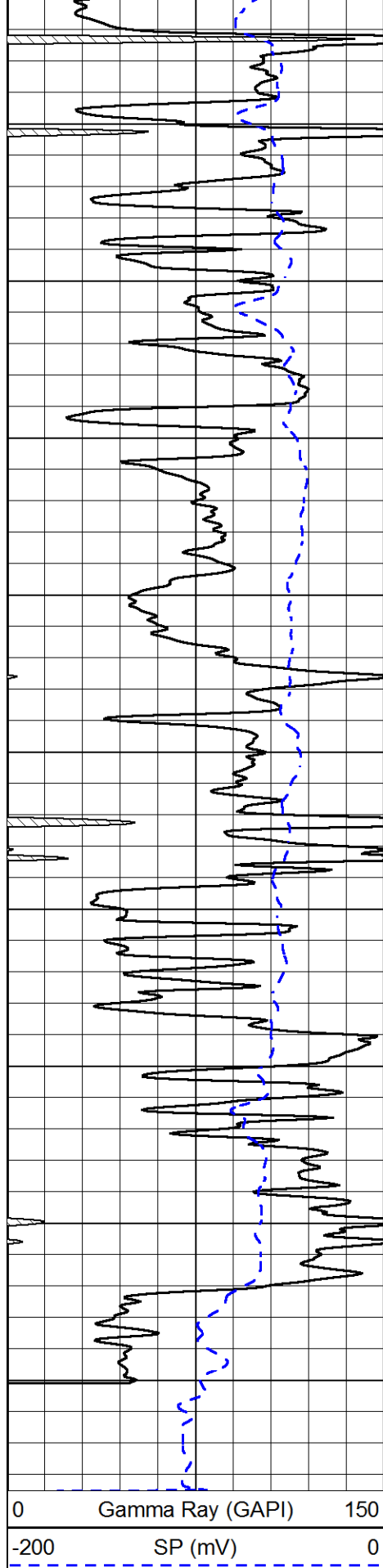




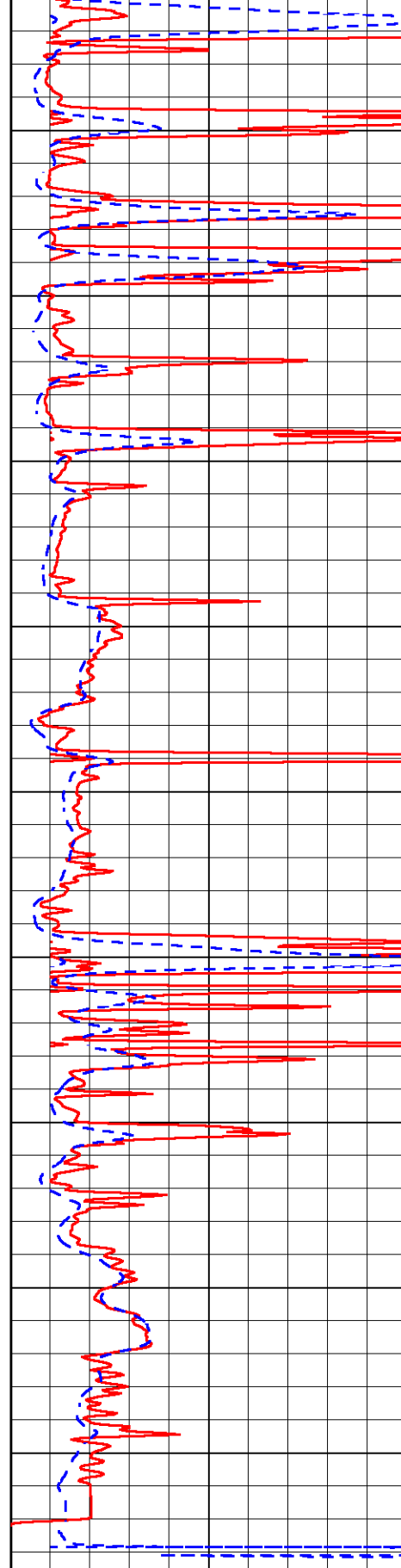




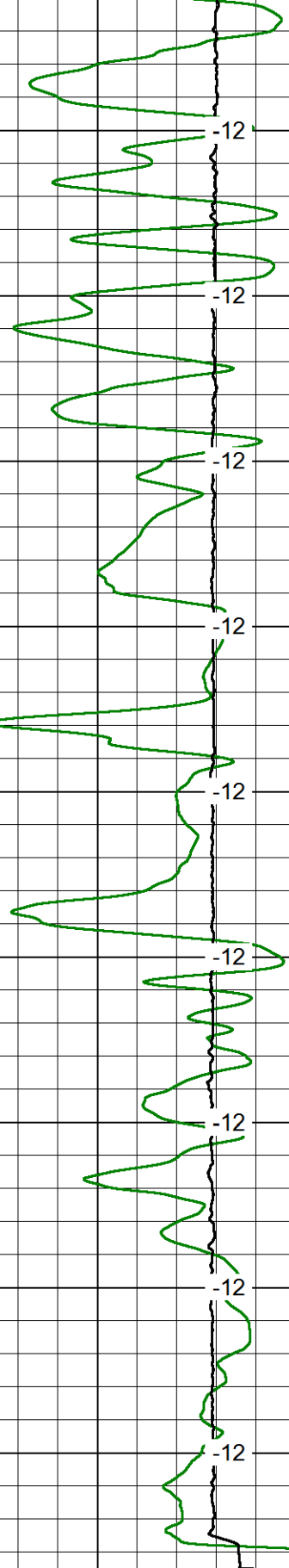




4050
4100
4150
4200
4250
4300
4350
4400
4450



Conductivity



-12
-12
-12
-12
-12
-12
-12
-12
-12

0 Gamma Ray (GAPI) 150
-200 SP (mV) 0

1000 Conductivity 0
15000 Line Tension (lb) 0

0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
50	Shallow Resistivity (Ohm-m)	500

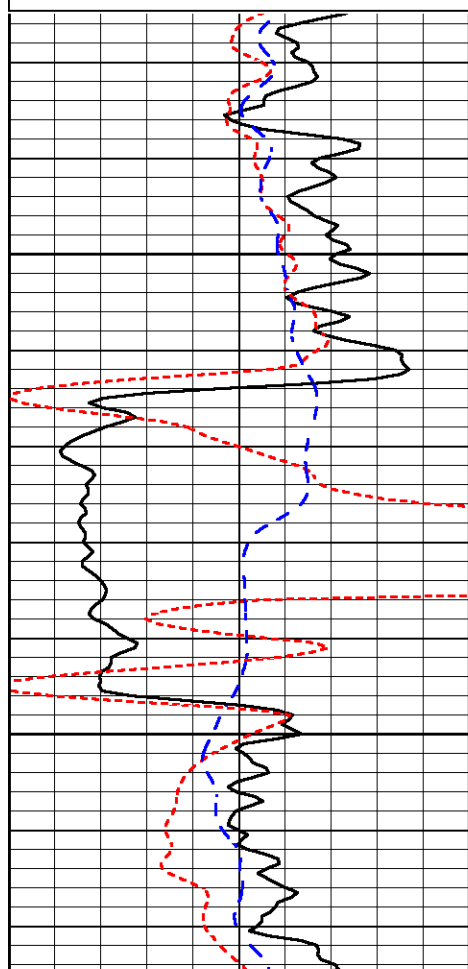
LSPD
(ft/min)

Database File suemaur_schroeder_1hd.db
 Dataset Pathname dil/sustack
 Presentation Format dil
 Dataset Creation Thu Dec 17 22:19:17 2015
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

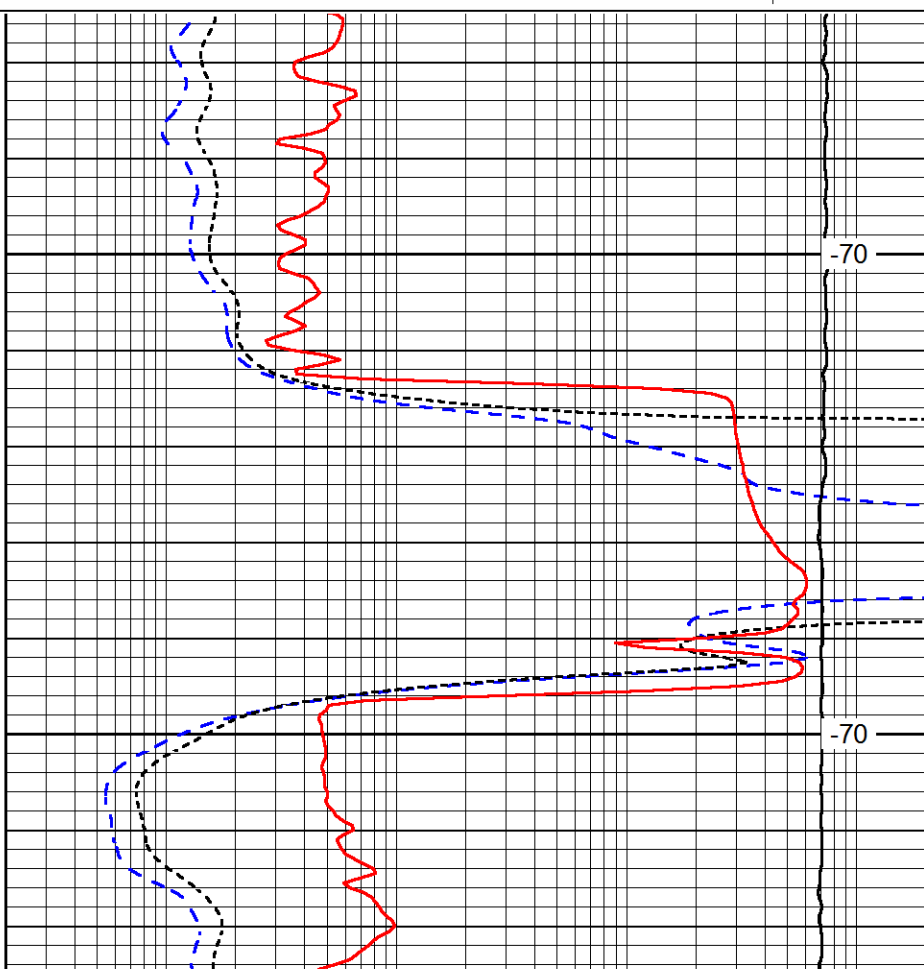
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



2450

2500



-70

-70

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

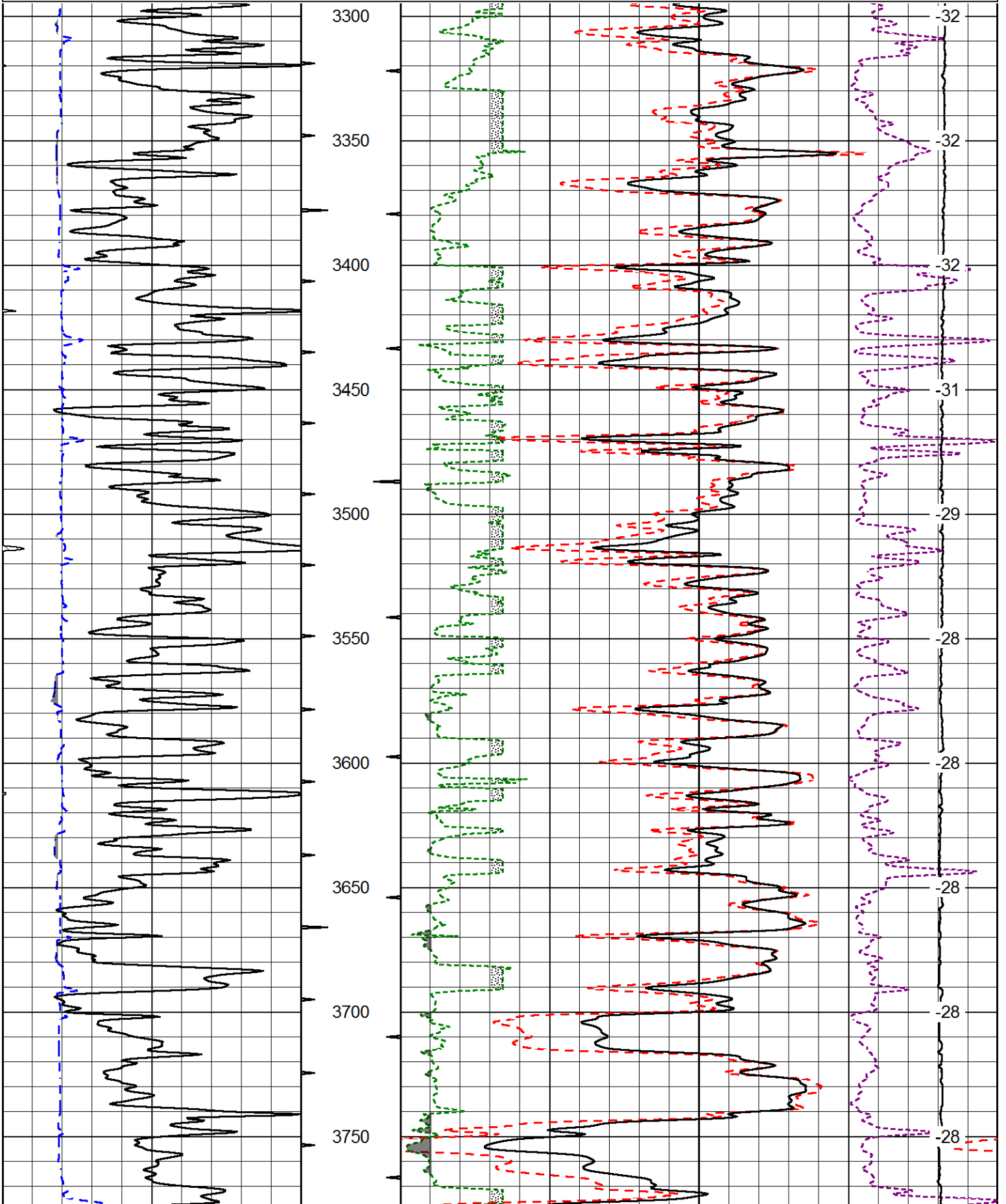
LSPD
(ft/min)

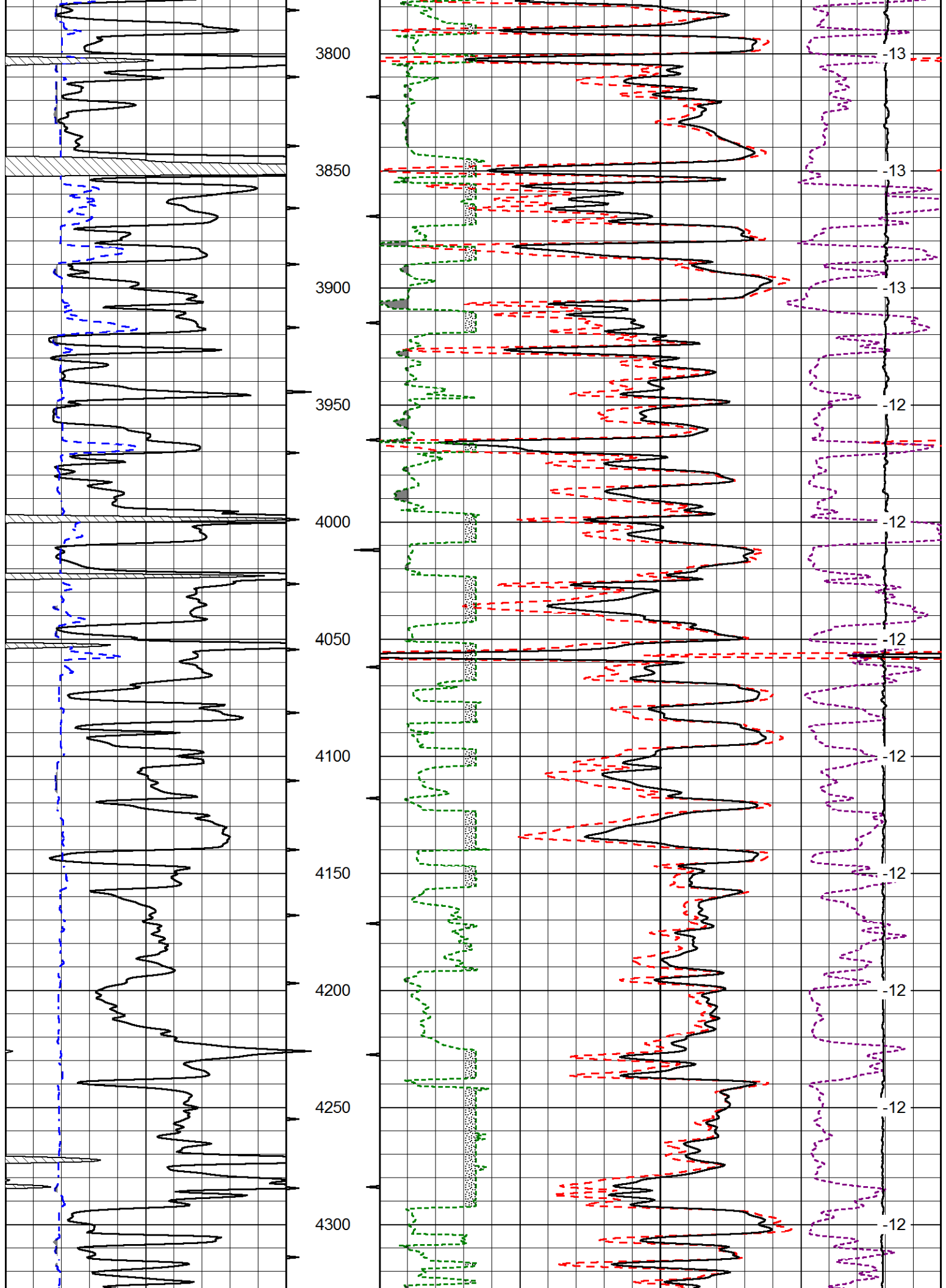
Database File suemaur_schroeder_1hd.db
 Dataset Pathname dil/sustack
 Presentation Format cdl
 Dataset Creation Thu Dec 17 22:19:17 2015
 Charted by Depth in Feet scaled 1:600

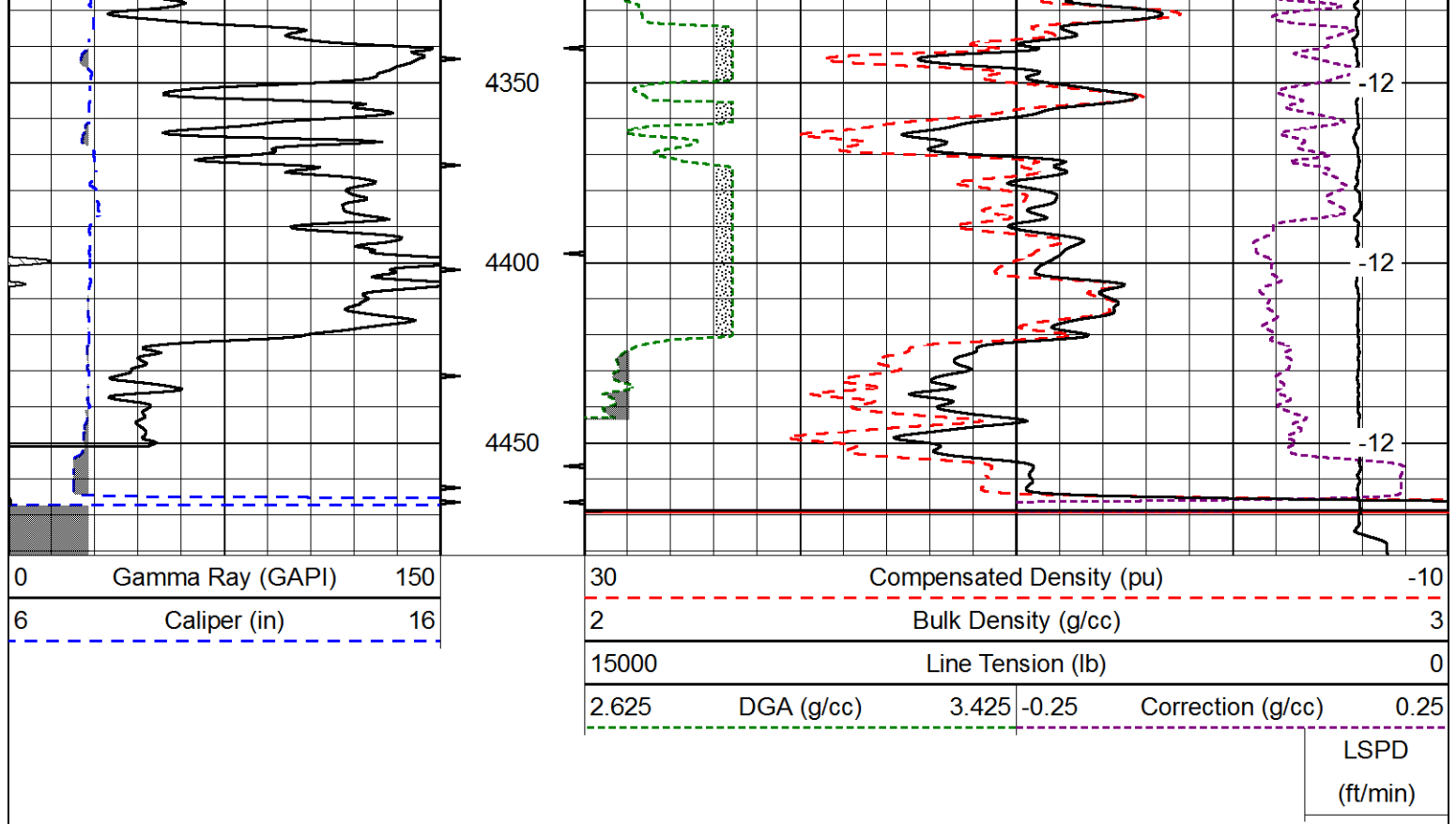
0	Gamma Ray (GAPI)	150
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30	Compensated Density (pu)	-10
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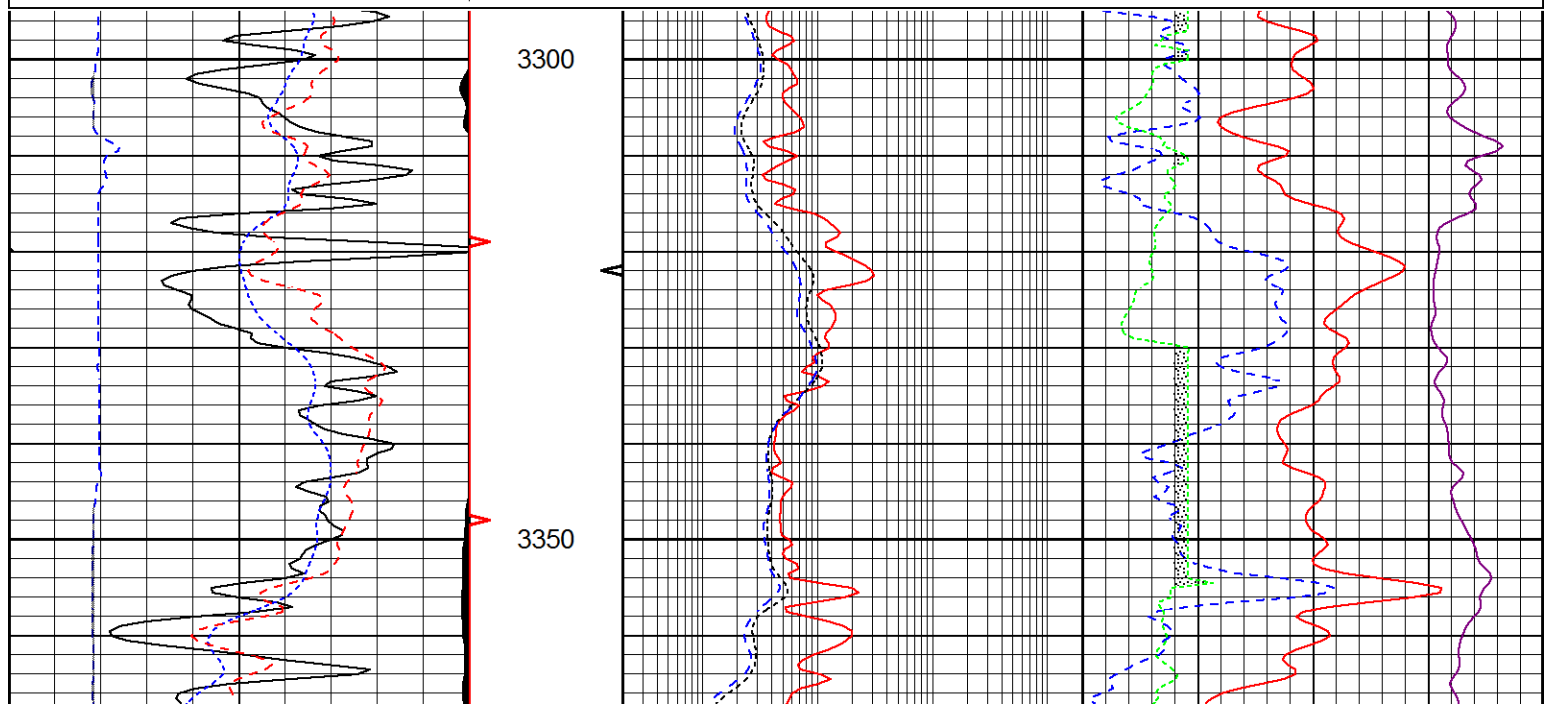
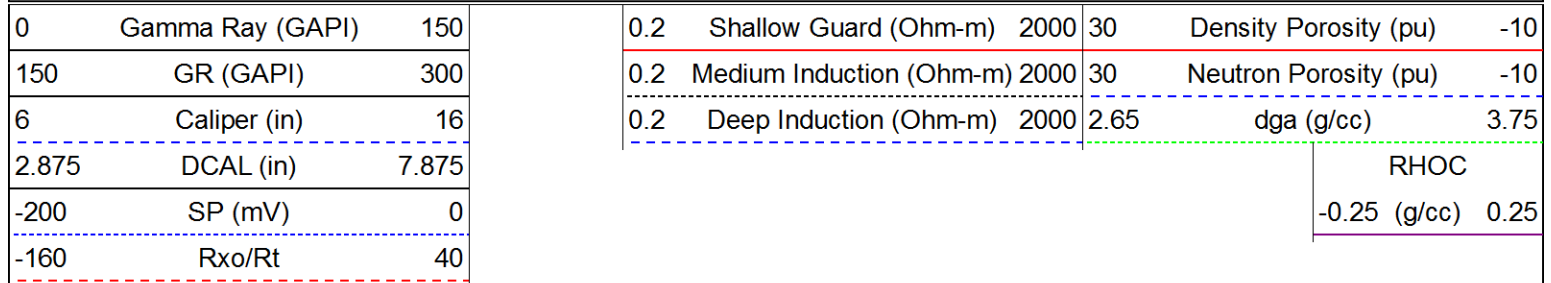
6	Caliper (in)	16	2	Bulk Density (g/cc)		3
			15000	Line Tension (lb)		0
			2.625	DGA (g/cc)	3.425 -0.25	Correction (g/cc) 0.25
						LSPD (ft/min)

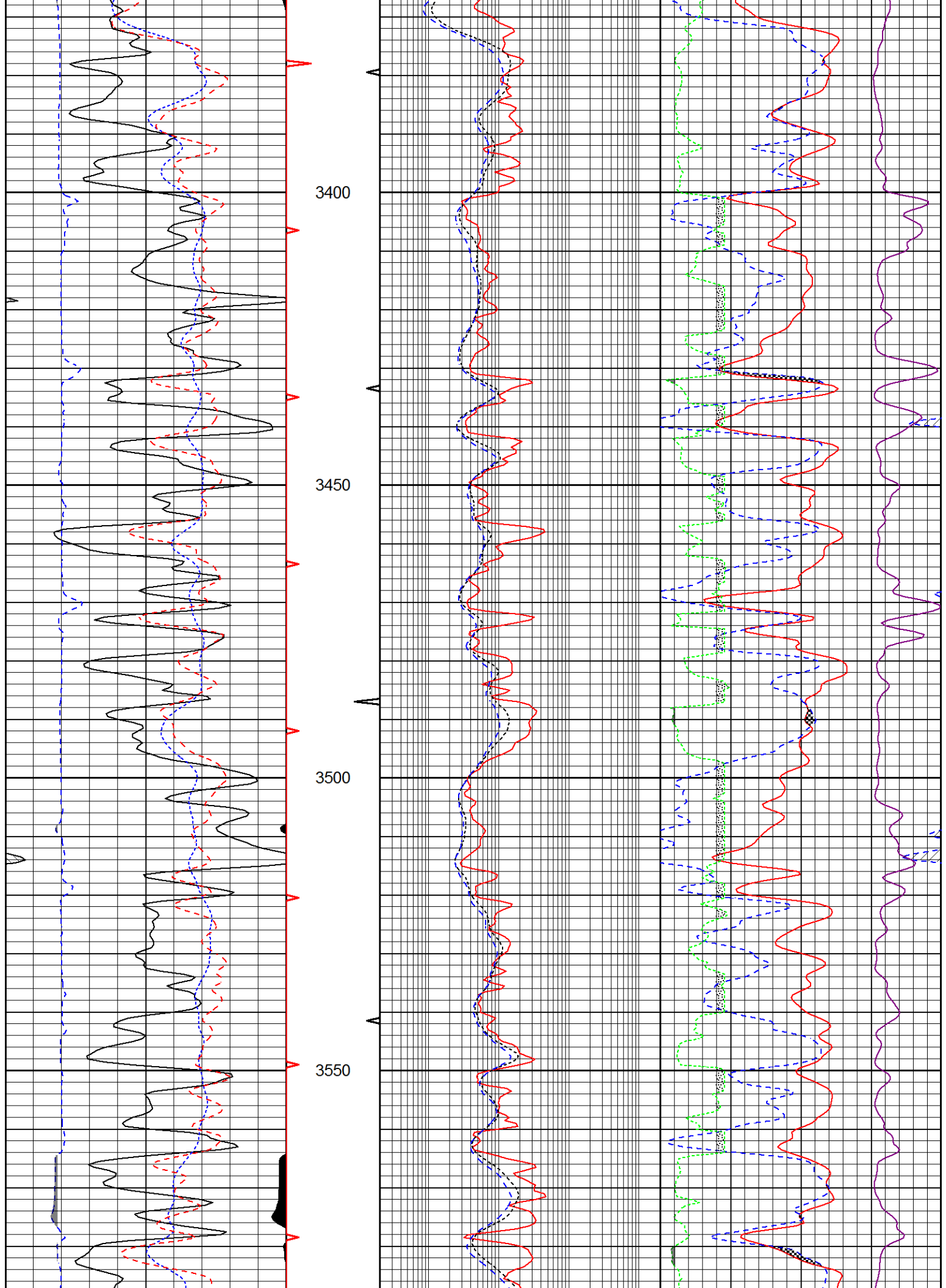


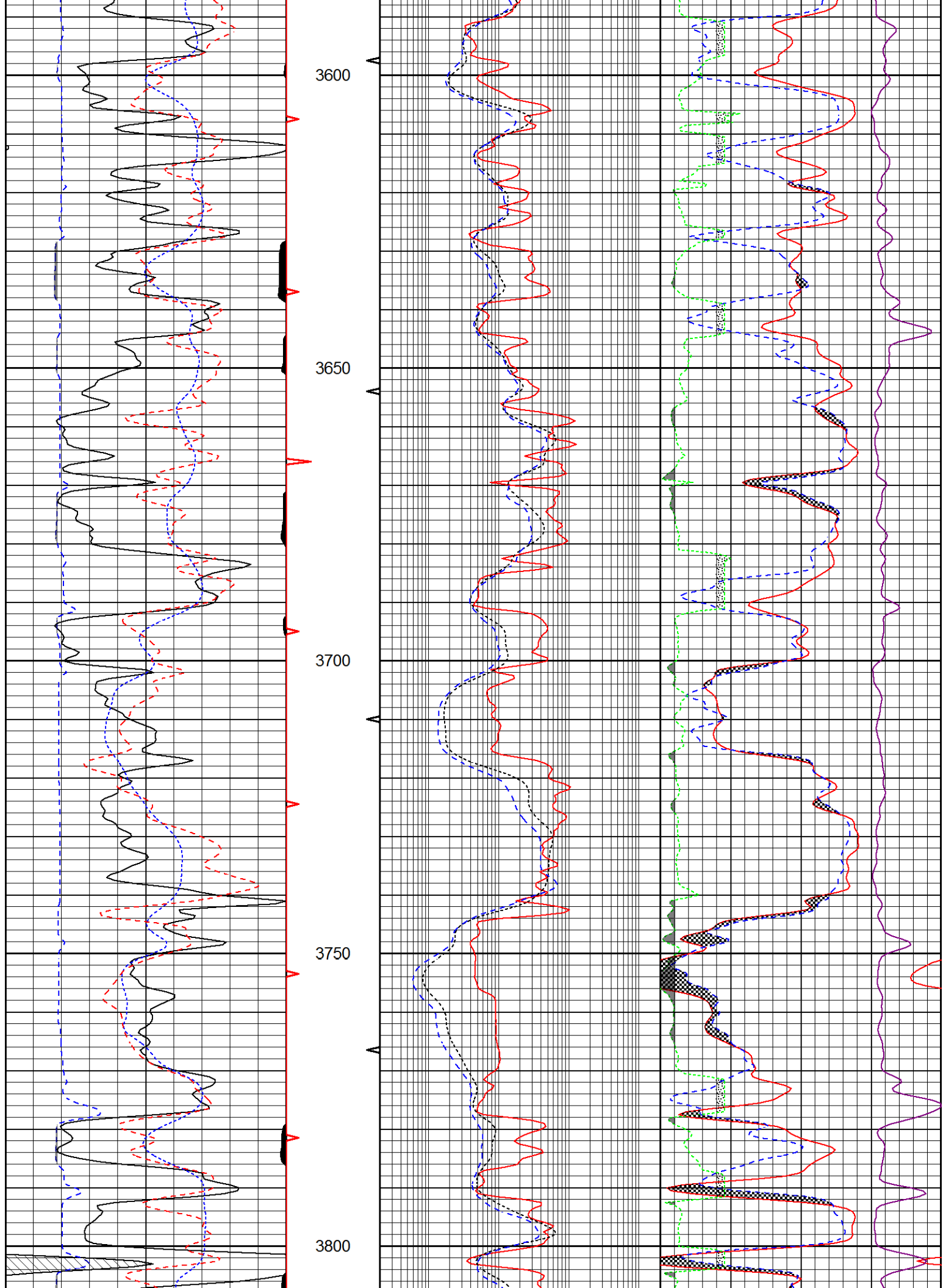


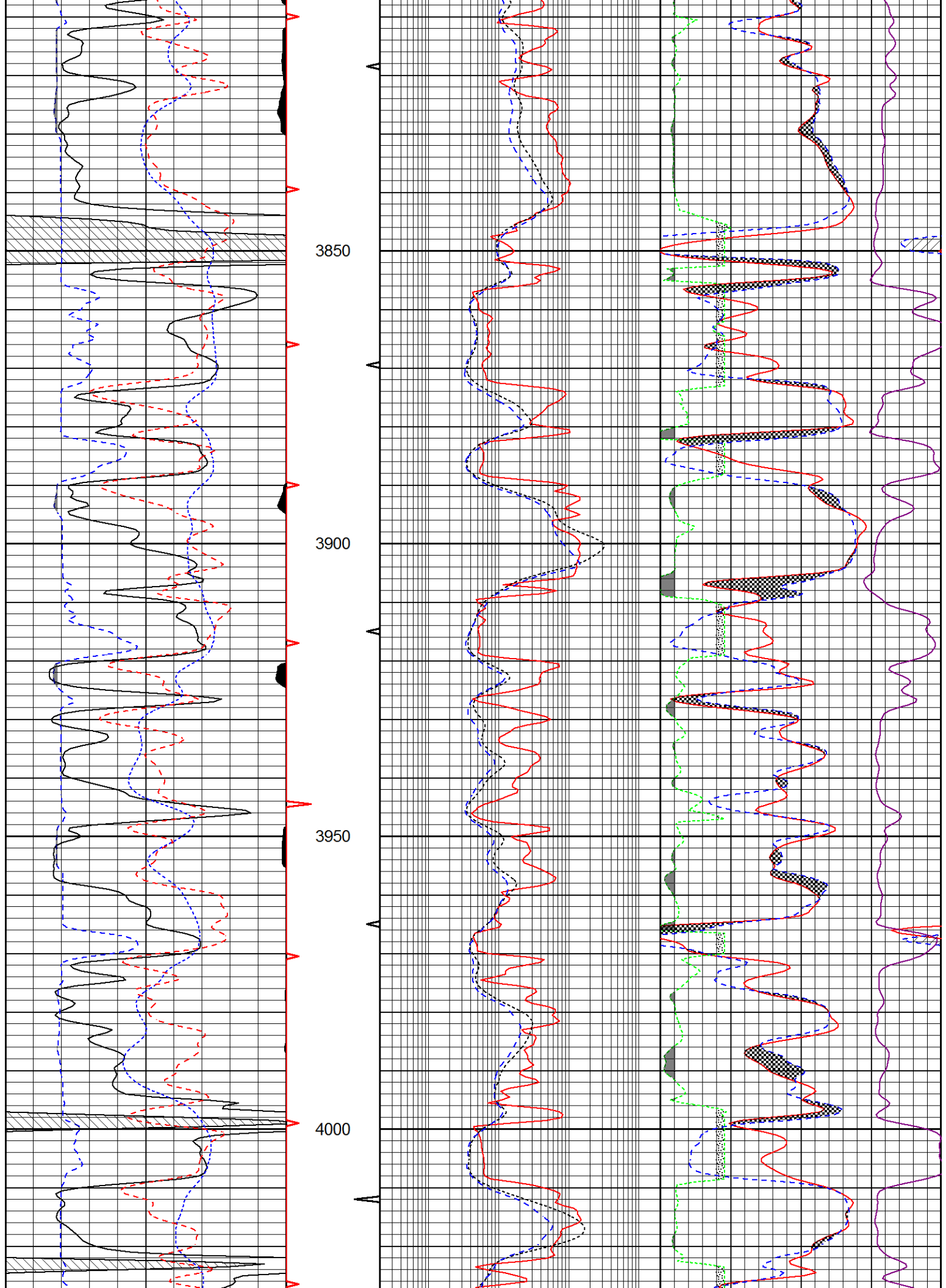


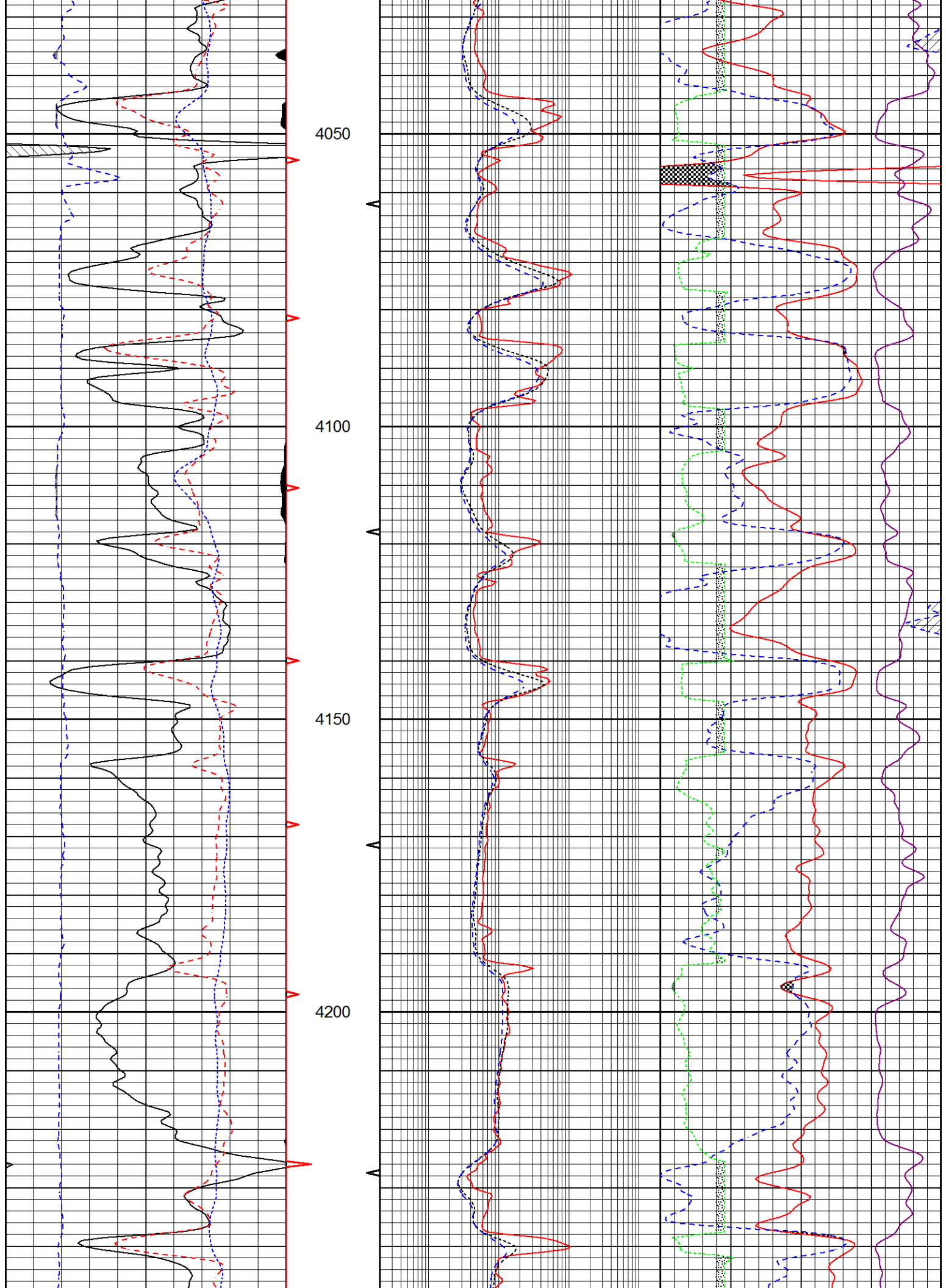
Database File: suemaur_schroeder_1hd.db
 Dataset Pathname: dil/sustack
 Presentation Format: suemaur
 Dataset Creation: Thu Dec 17 22:19:17 2015
 Charted by: Depth in Feet scaled 1:240

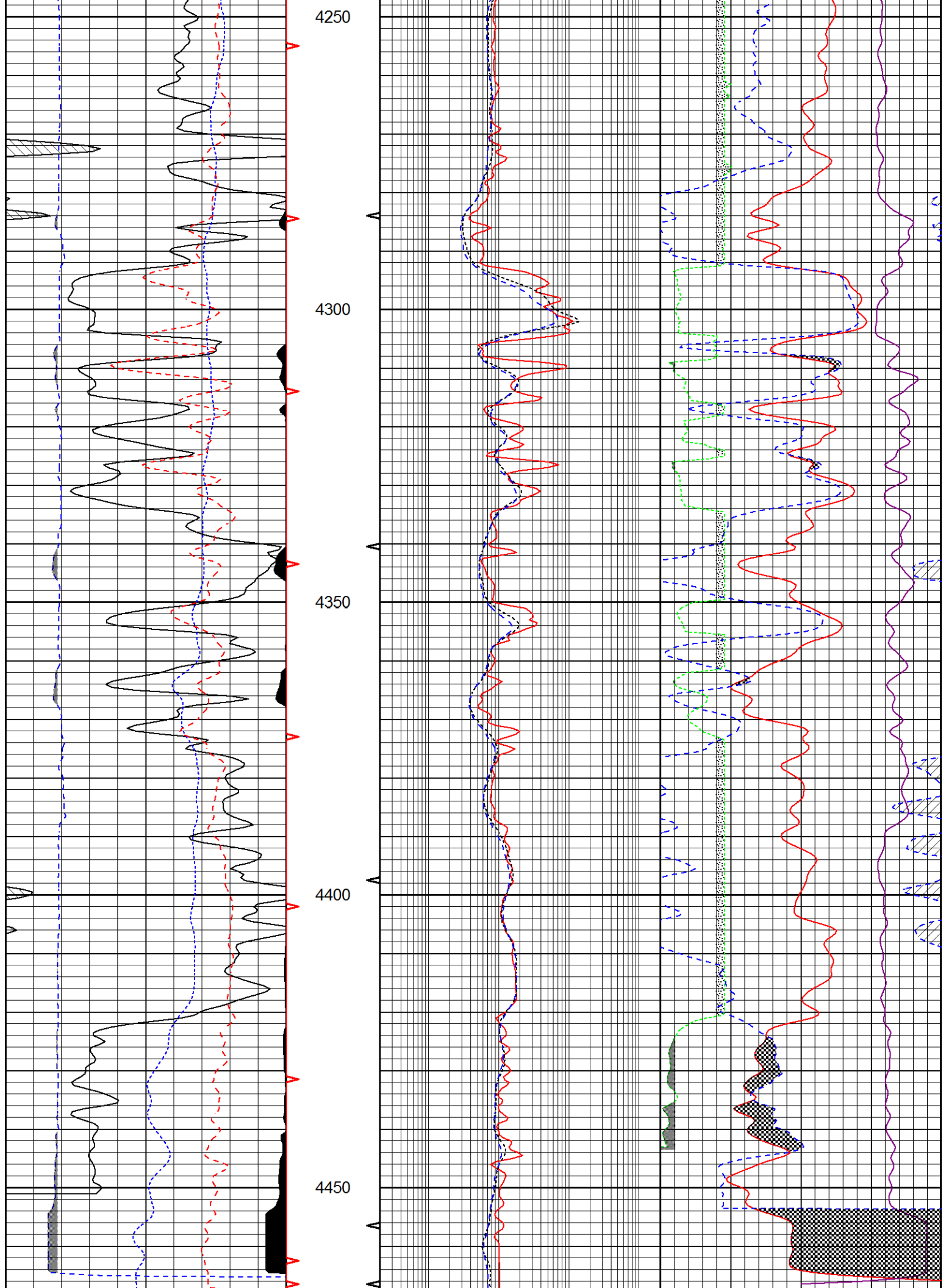


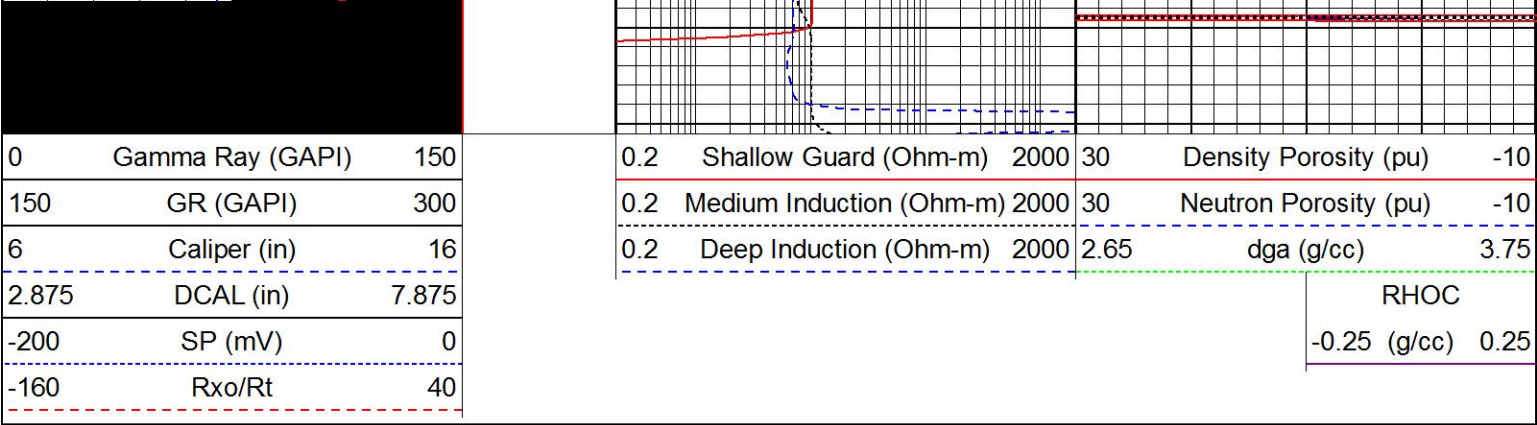








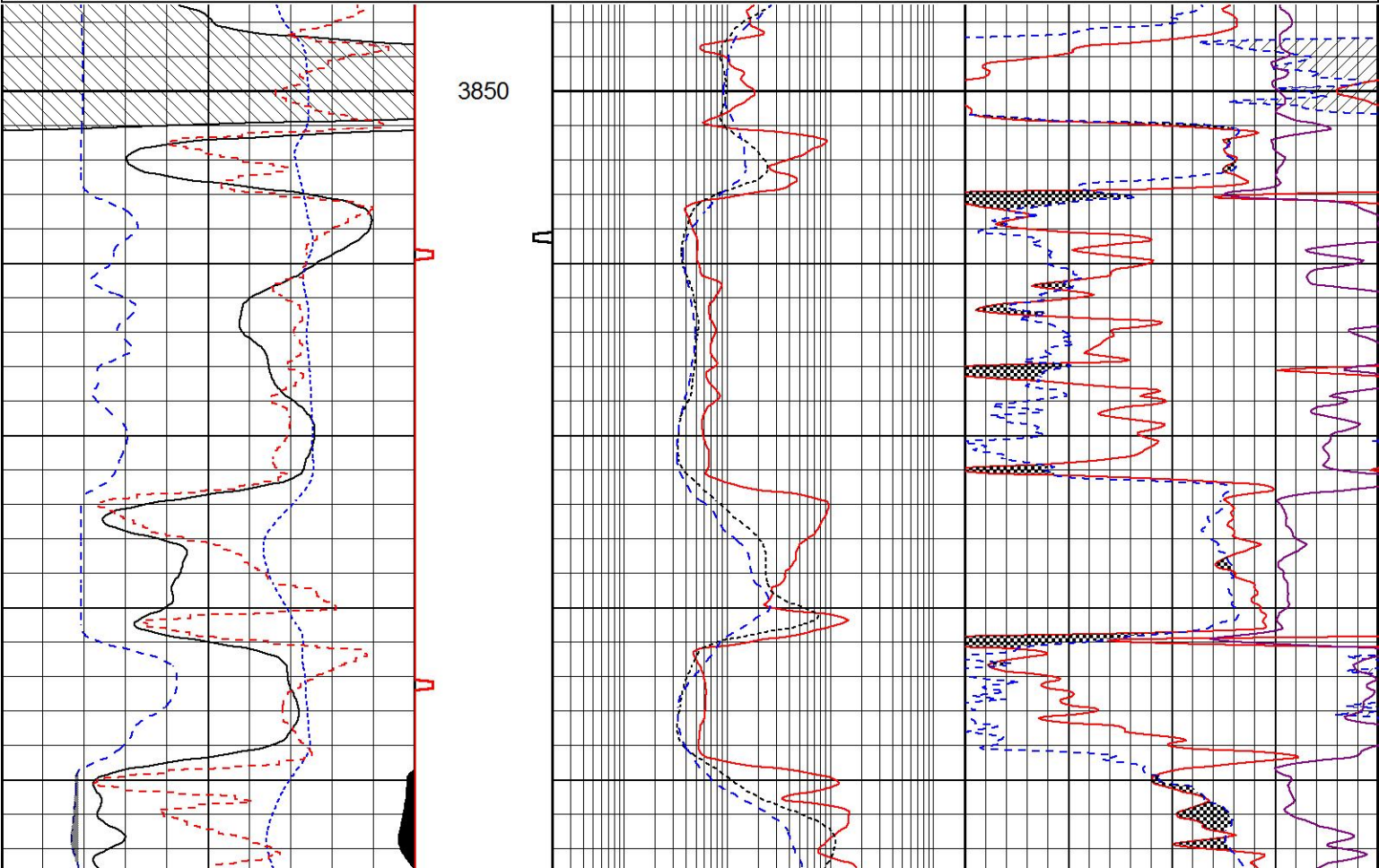
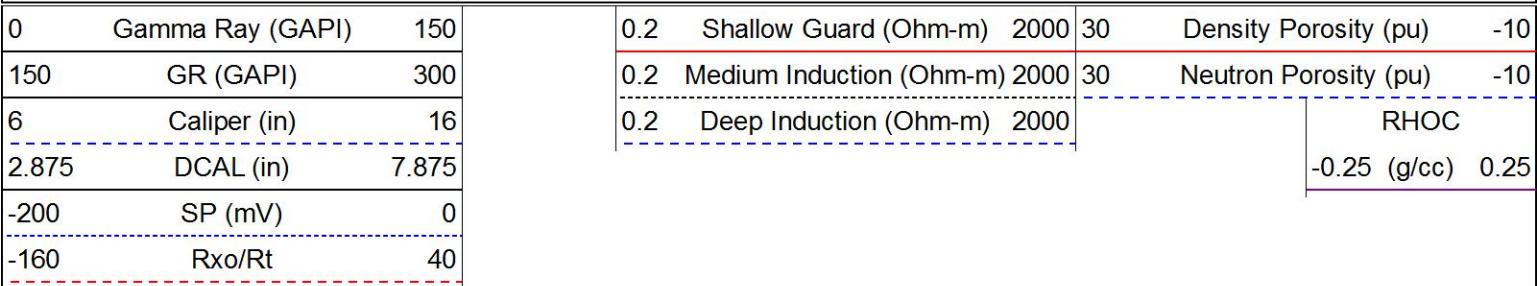


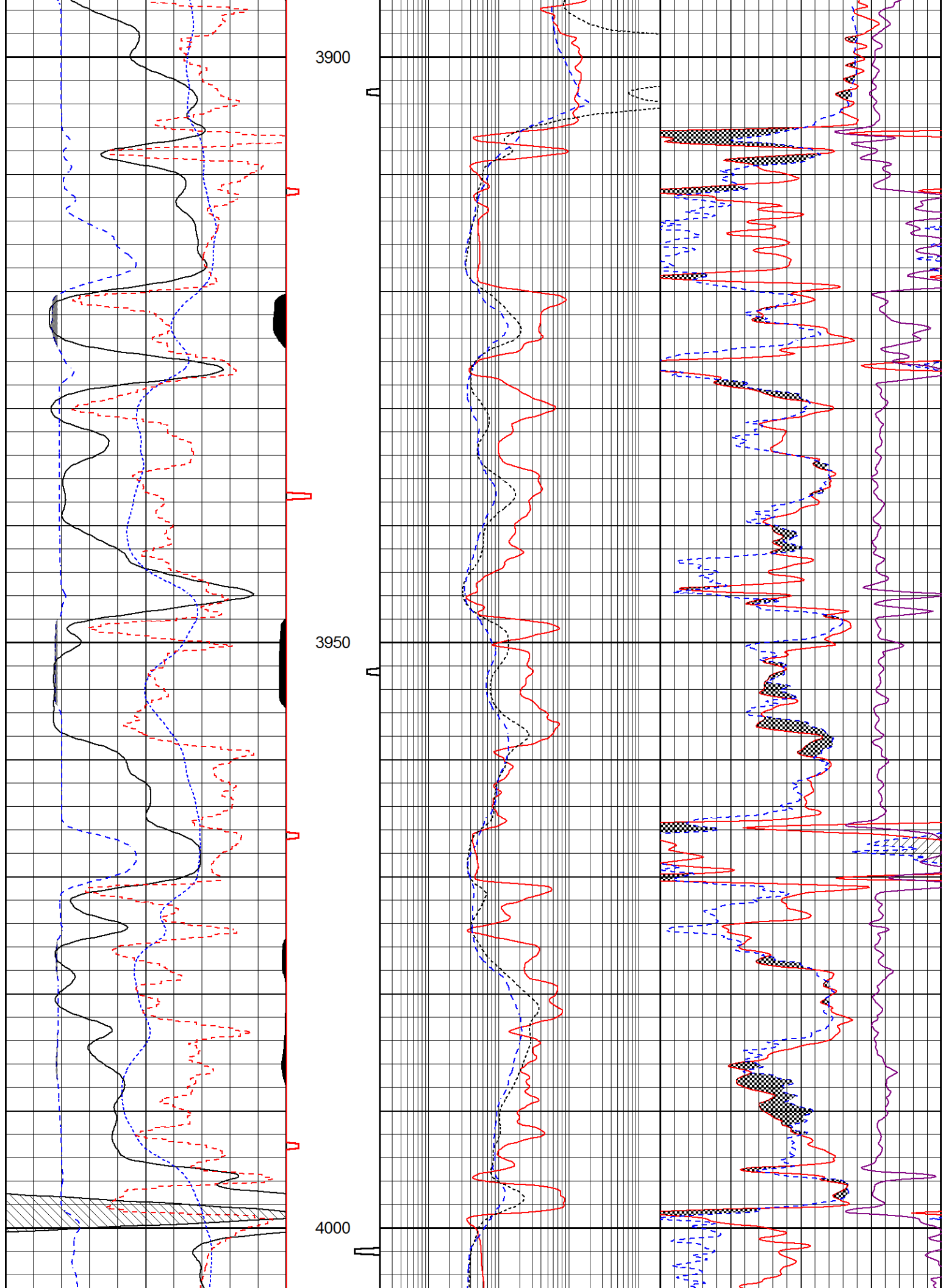


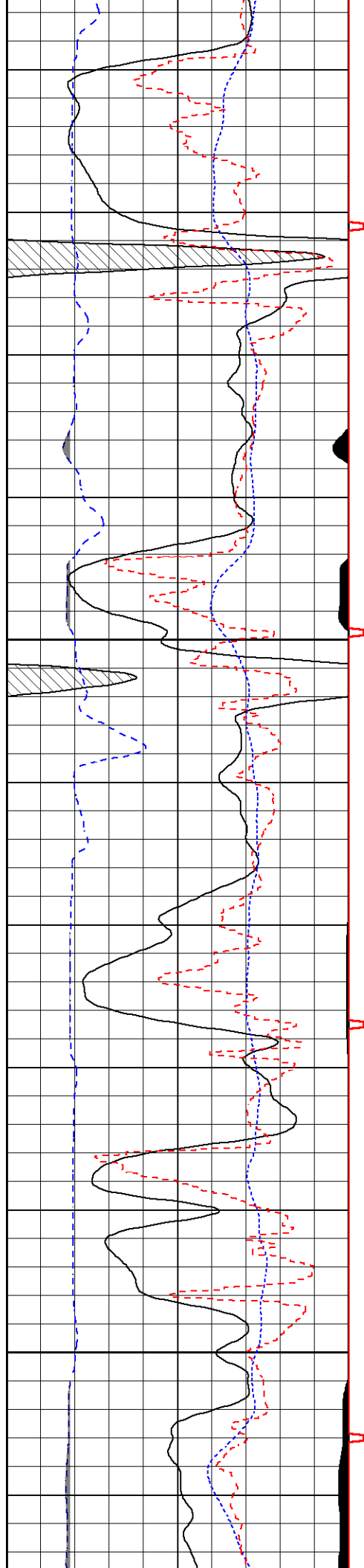
Pioneer Energy Services

High Resolution

Database File suemaur_schroeder_1hd.db
Dataset Pathname dil/suhires2
Presentation Format suemaur
Dataset Creation Thu Dec 17 21:44:13 2015
Charted by Depth in Feet scaled 1:120

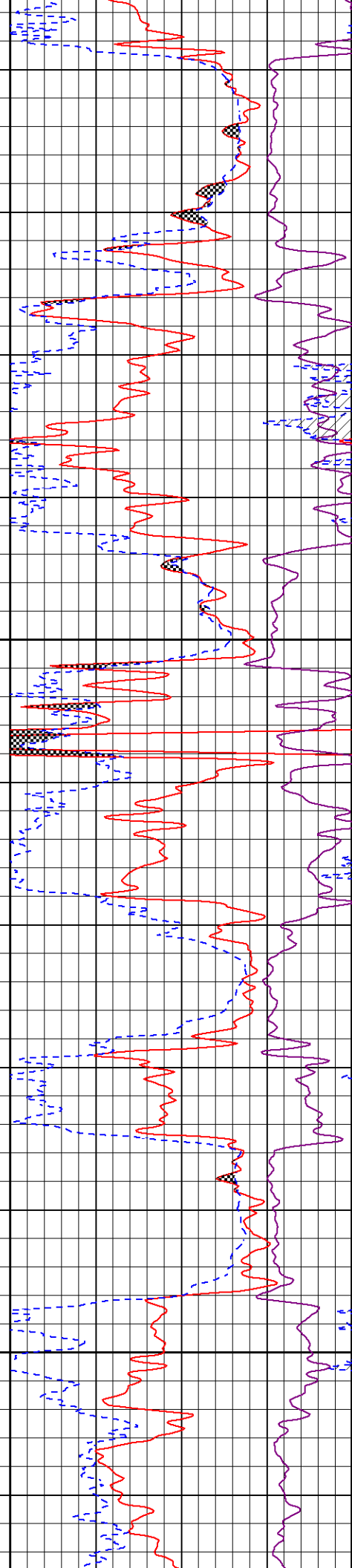
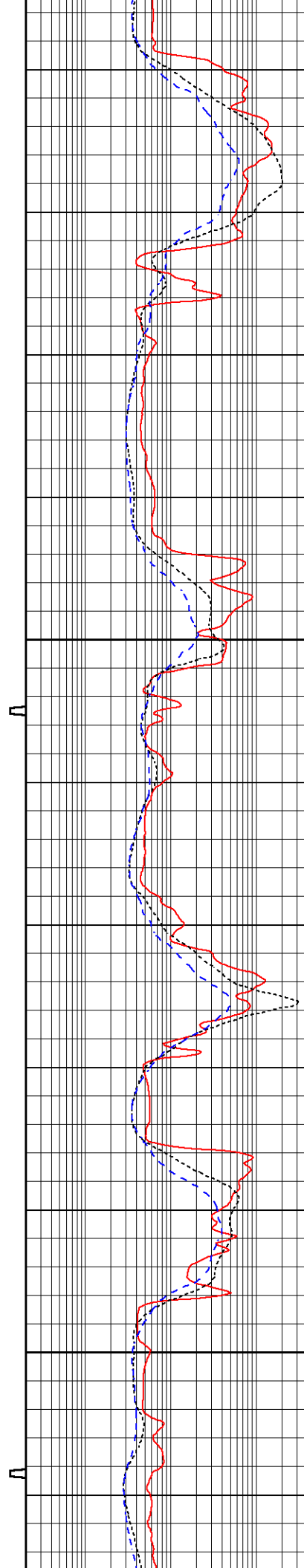


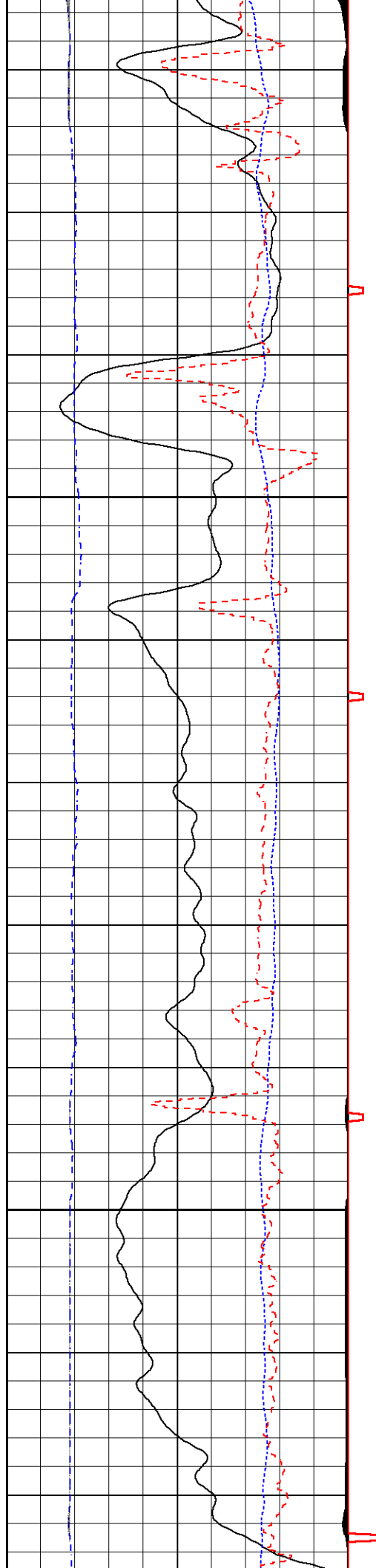




4050

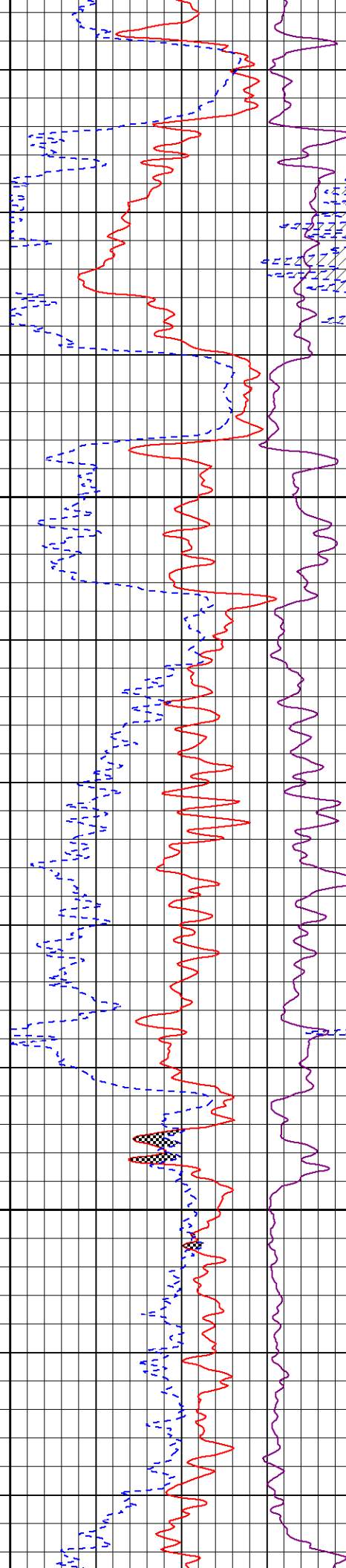
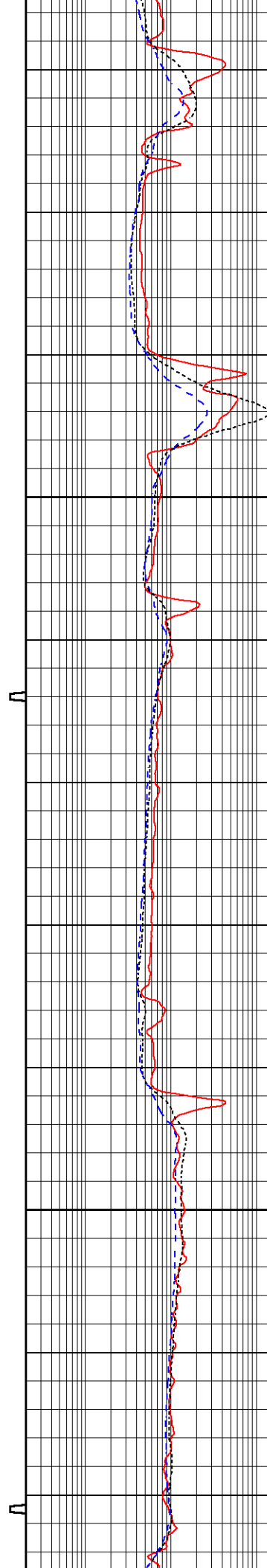
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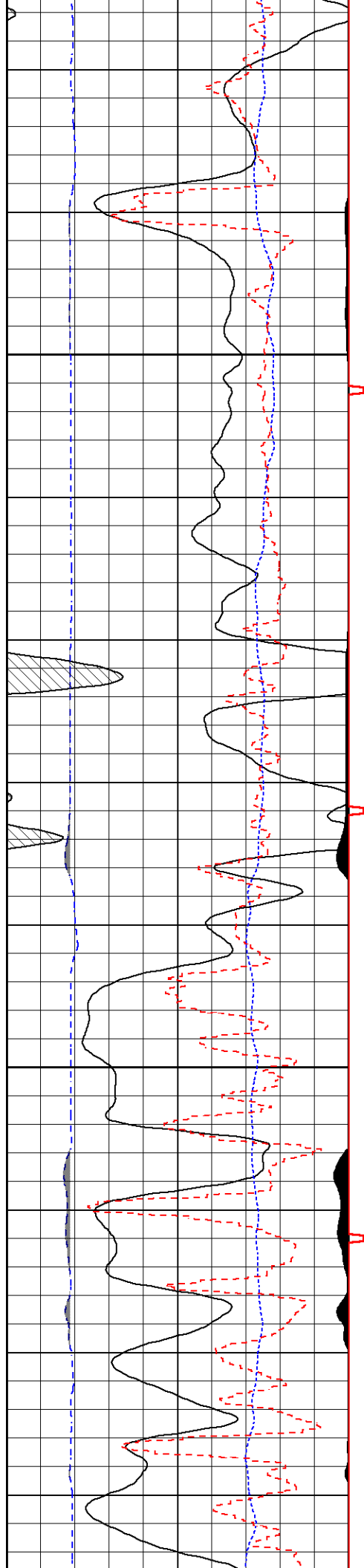




4150

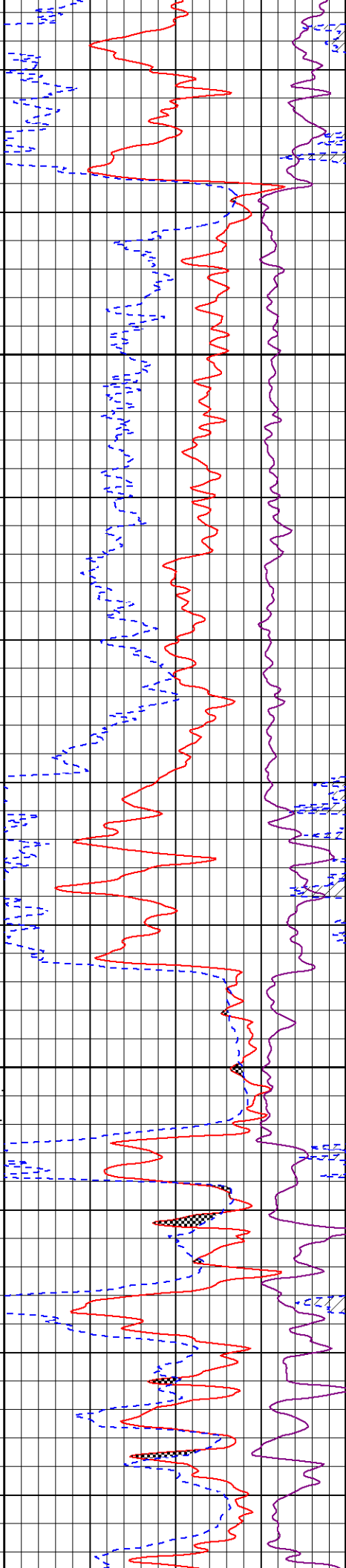
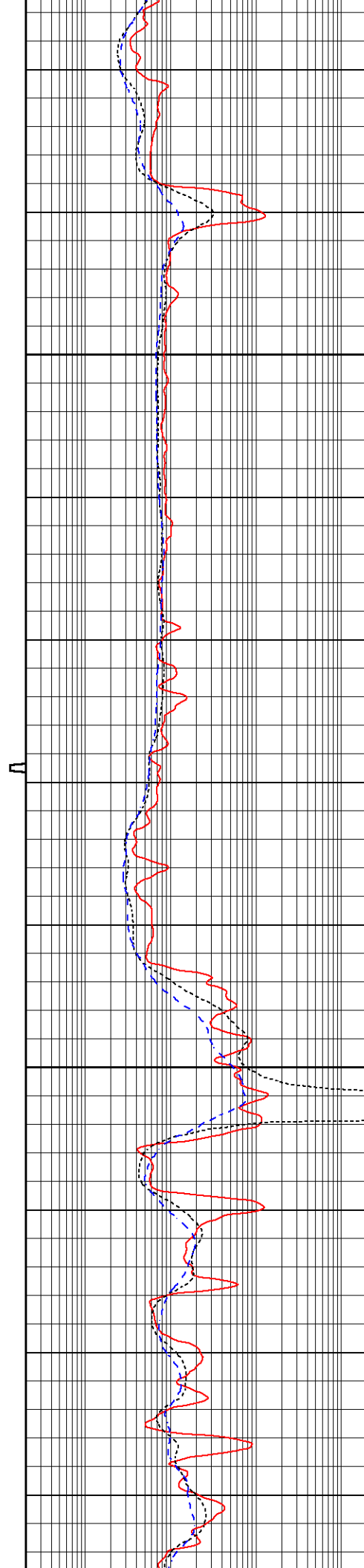
4200

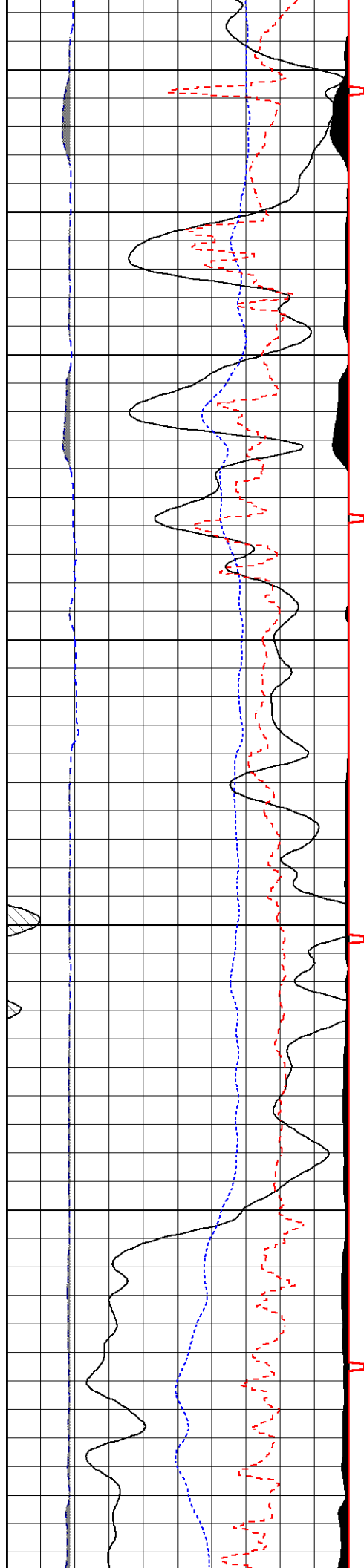




4250

4300





4350

4400

