DUAL INDUCTION LOG

Company H & D Exploration LLC.
Well Dozier #1
Field Unknown
County Stafford State Kansas
Location: API # : 15 185 23961
1630' FNL & 1087' FWL
SEC 21 TWP 25S RGE 11W

Other Services
CDNL
ML
BCS

Elevation
K.B. 1824'
D.F. 1823'
G.L. 1816'

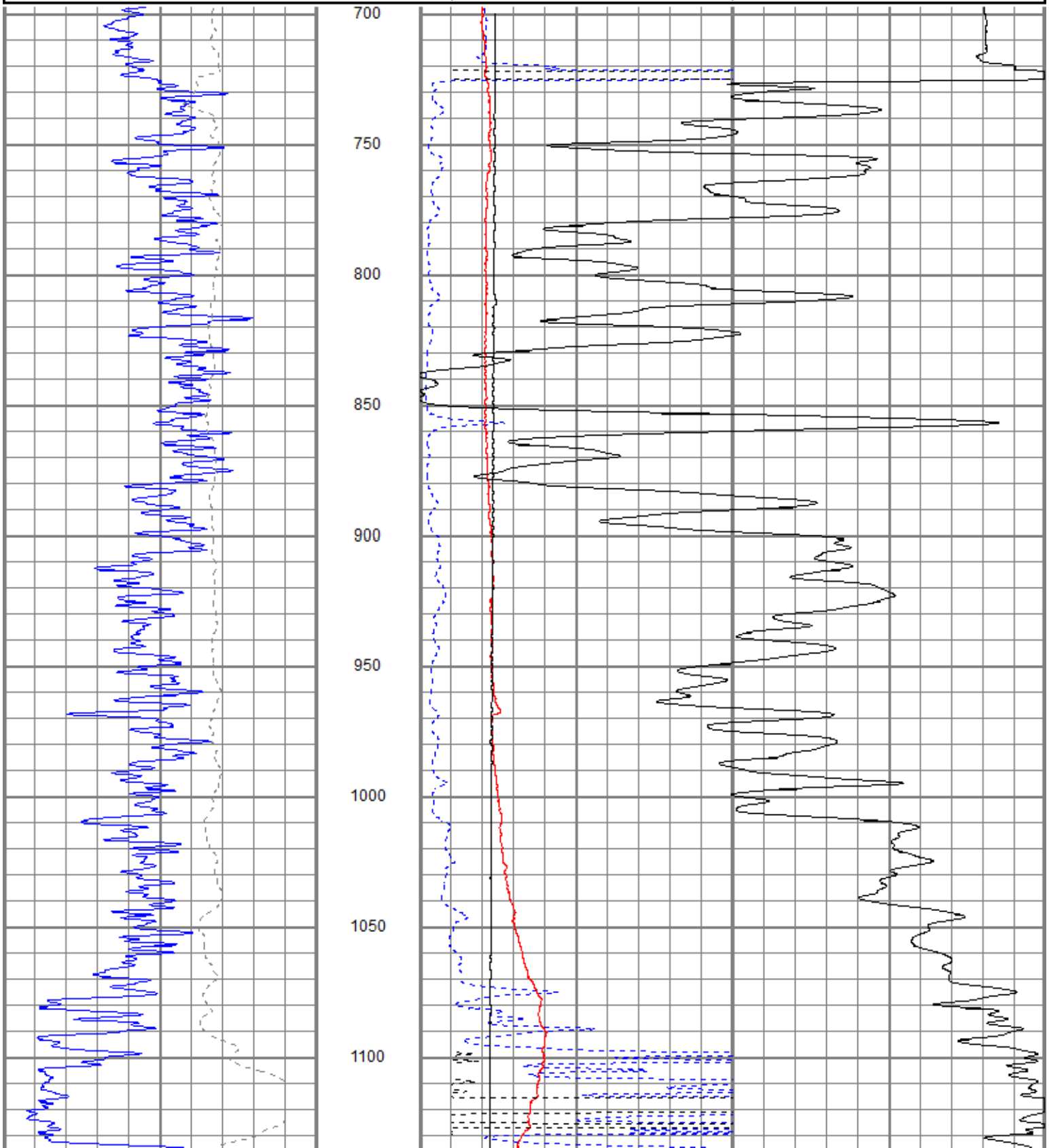
Permanent Datum Ground Level Elevation 1816'
Log Measured From KB 8' AGL
Drilling Measured From KB

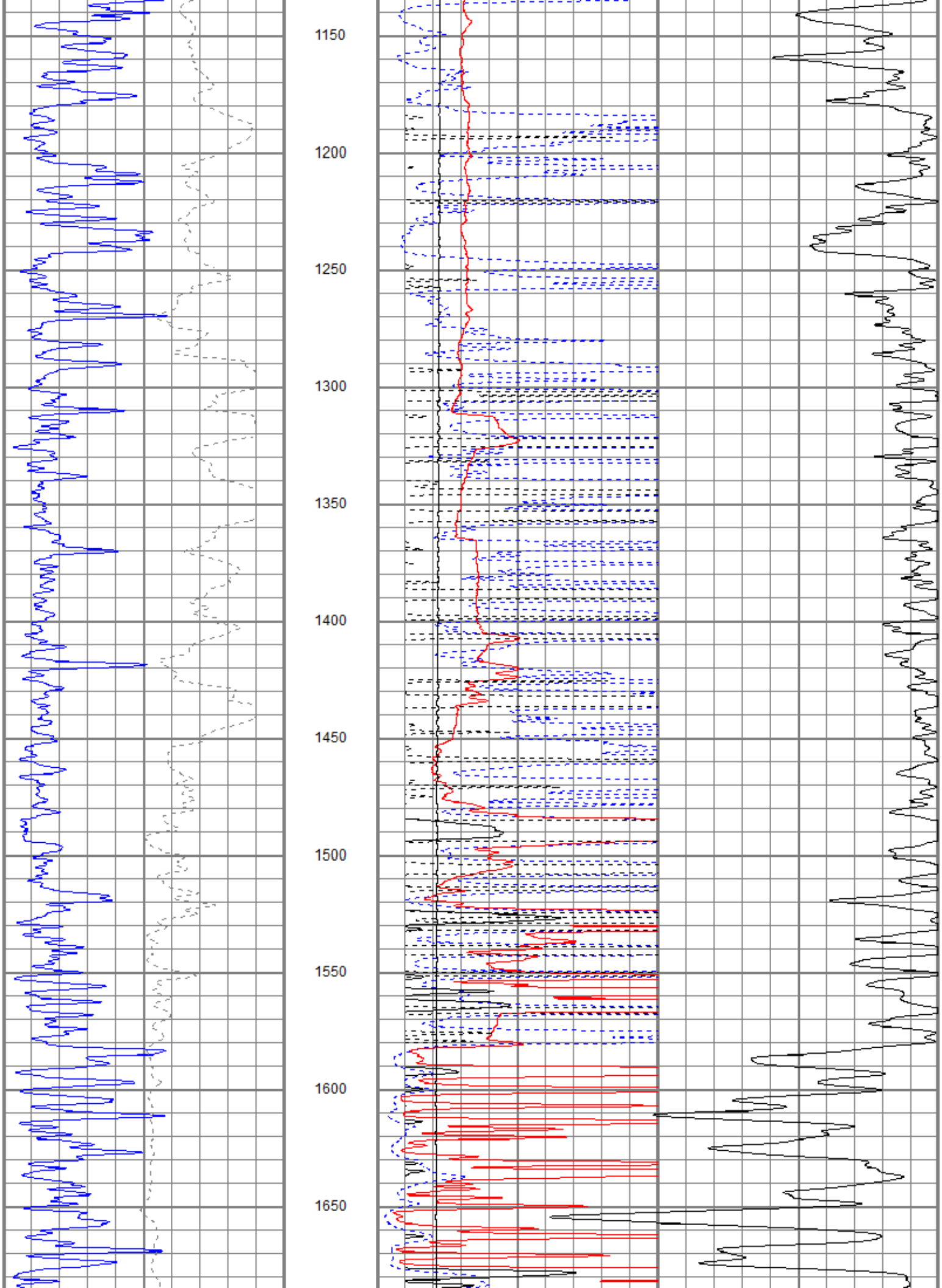
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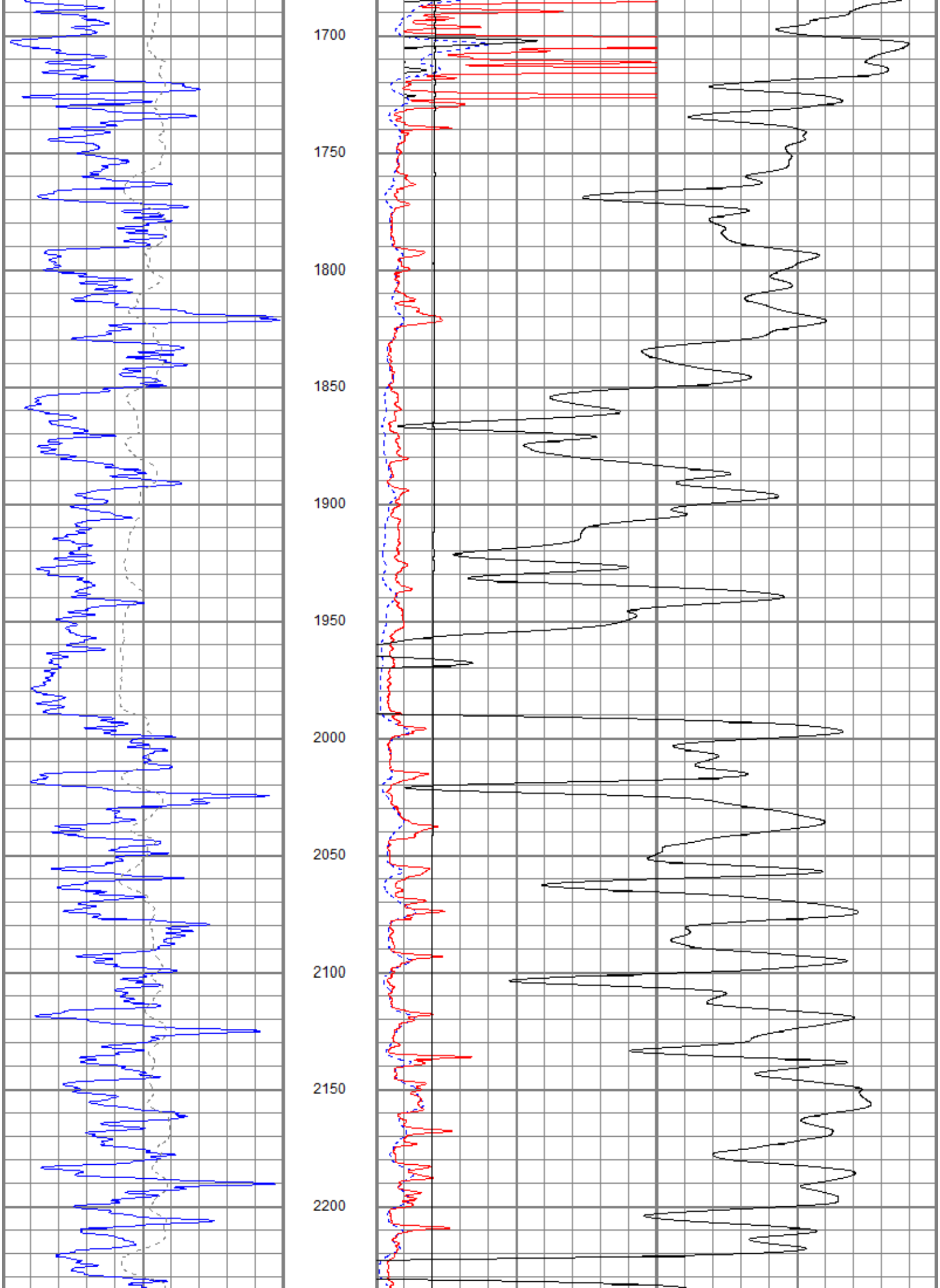
Database File	hddozier#1oh.db
Dataset Pathname	pass3main
Presentation Format	kdillin2
Dataset Creation	Tue Jun 14 05:30:16 2016
Charted by	Depth in Feet scaled 1:600

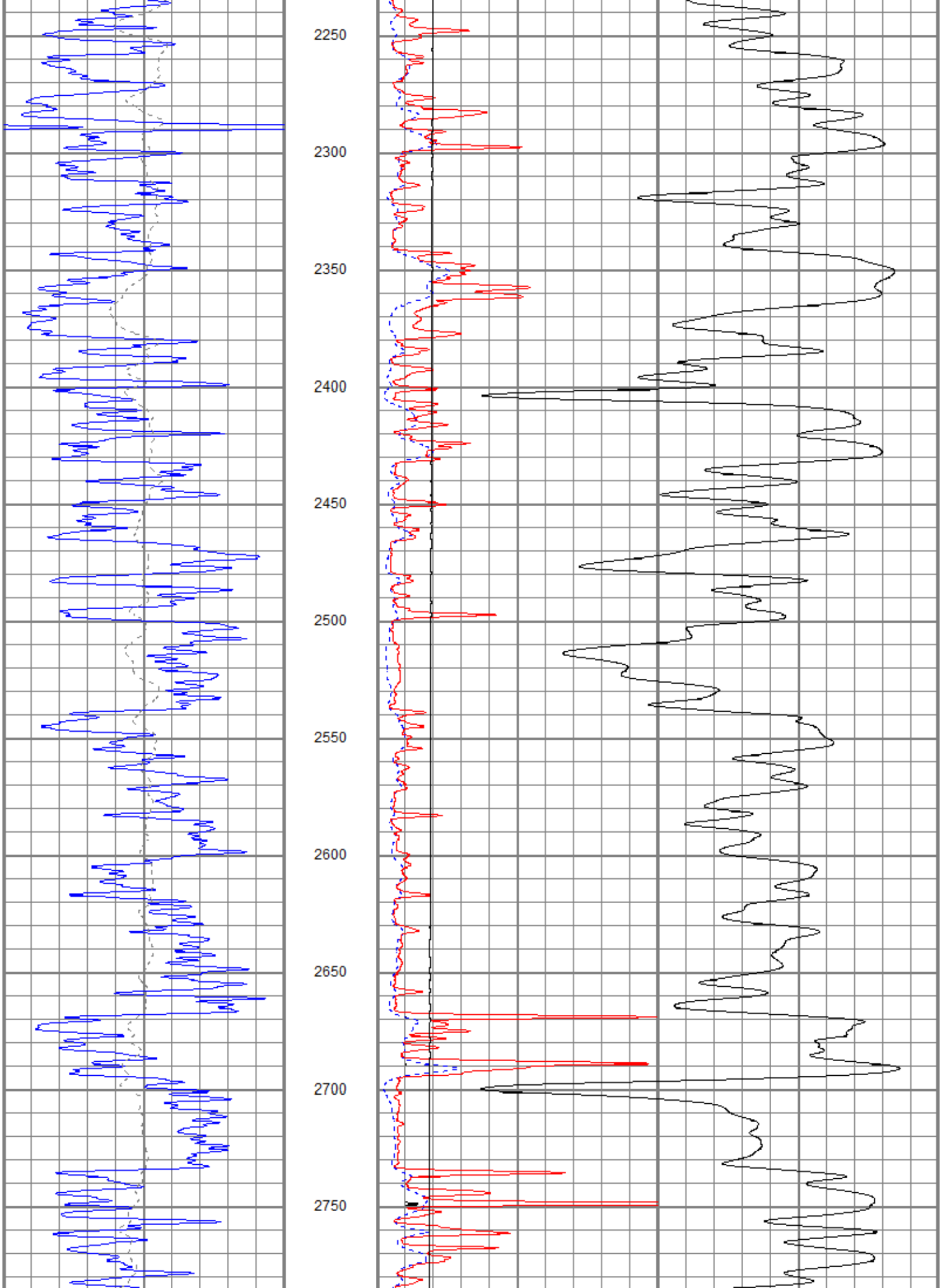
0	GR (GAPI)	150
-200	SP (mV)	0

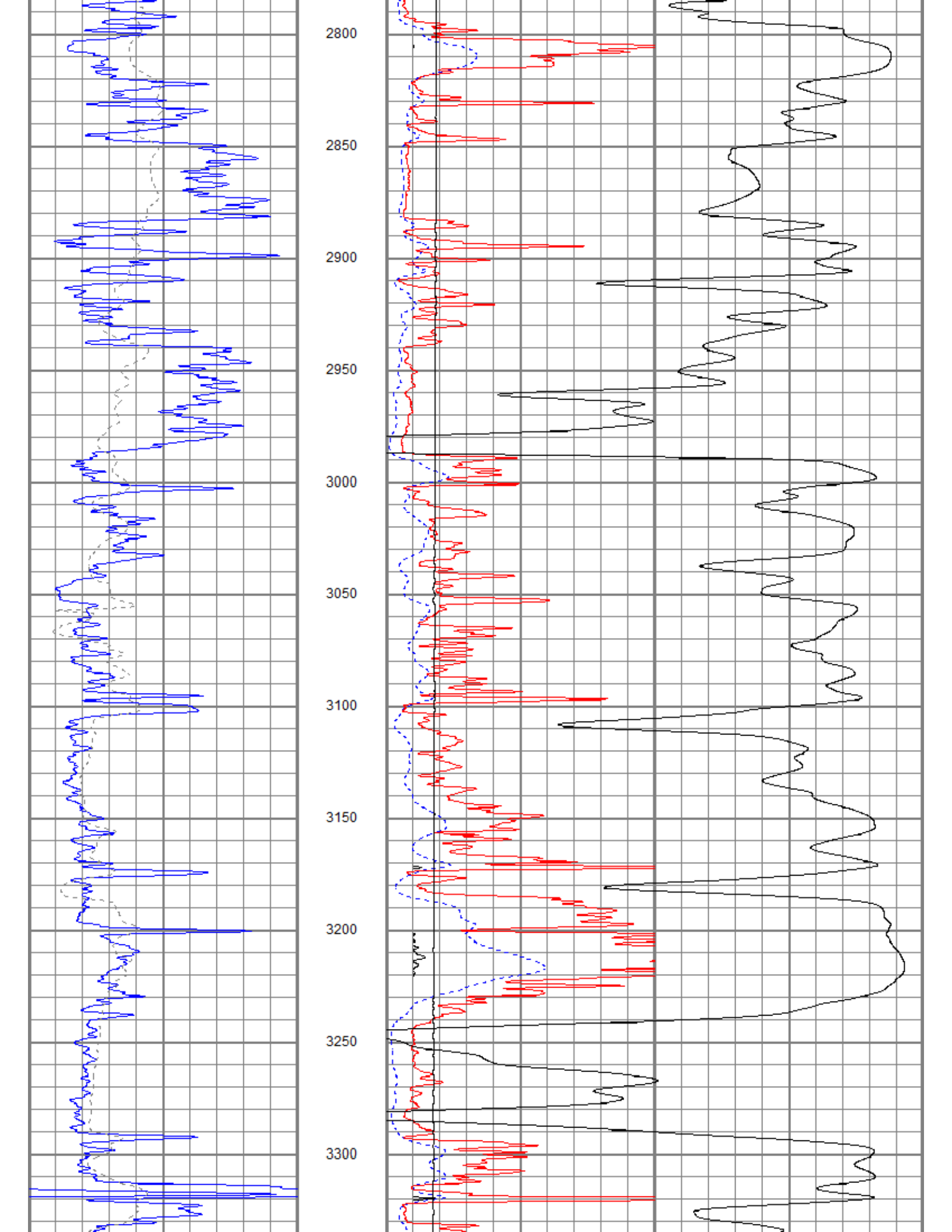
1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

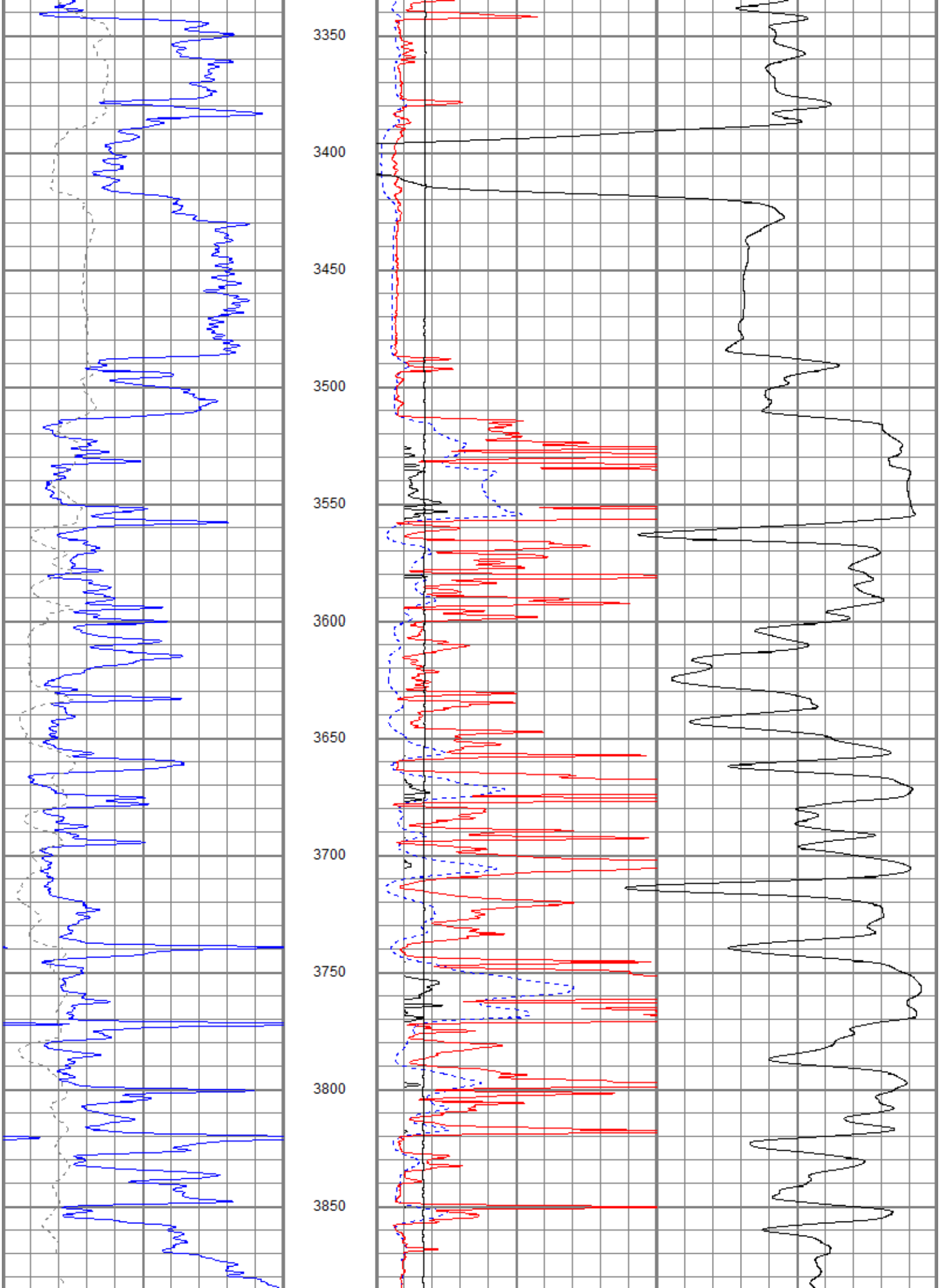


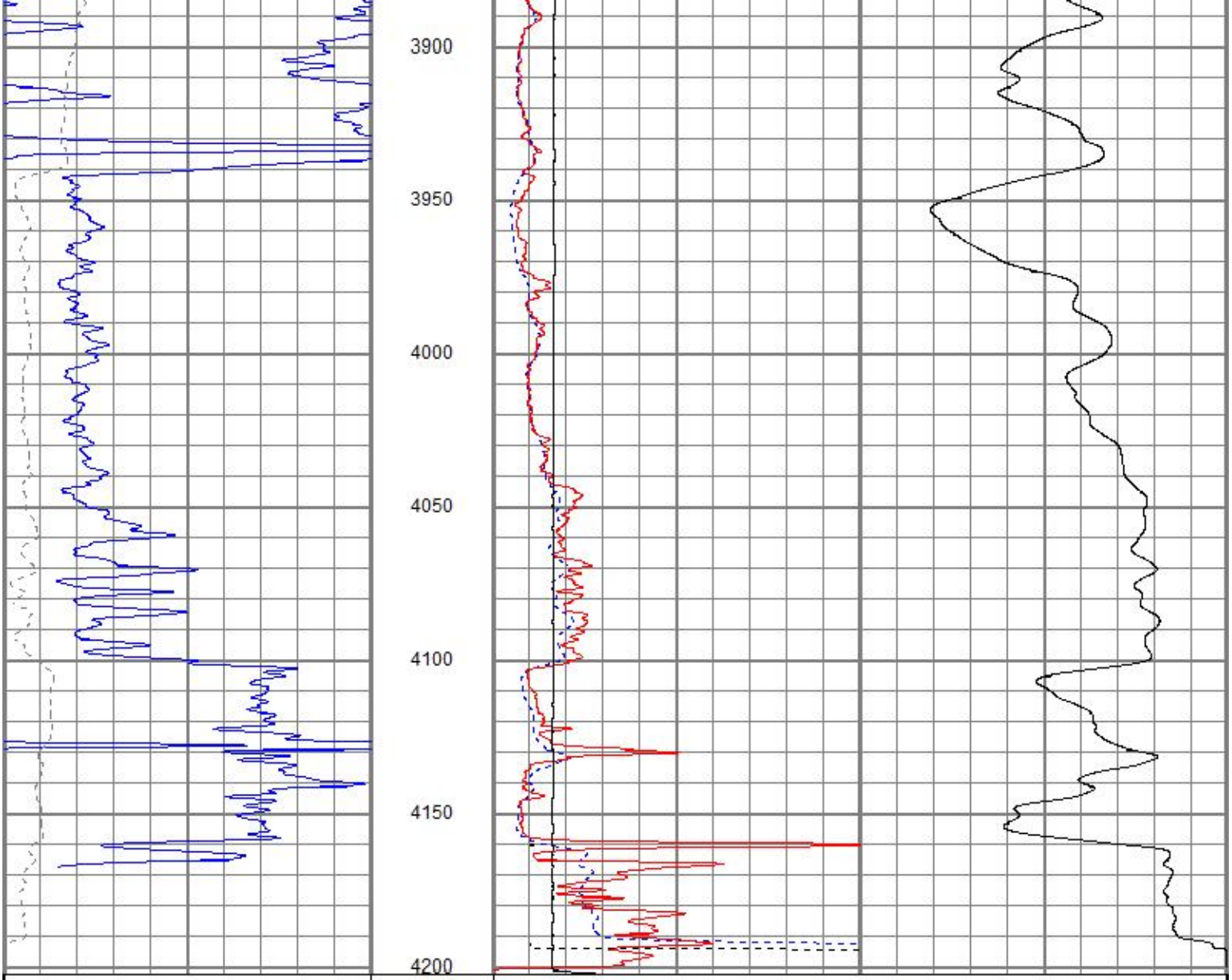

1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650


1700
1750
1800
1850
1900
1950
2000
2050
2100
2150
2200


2250
2300
2350
2400
2450
2500
2550
2600
2650
2700
2750


2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300

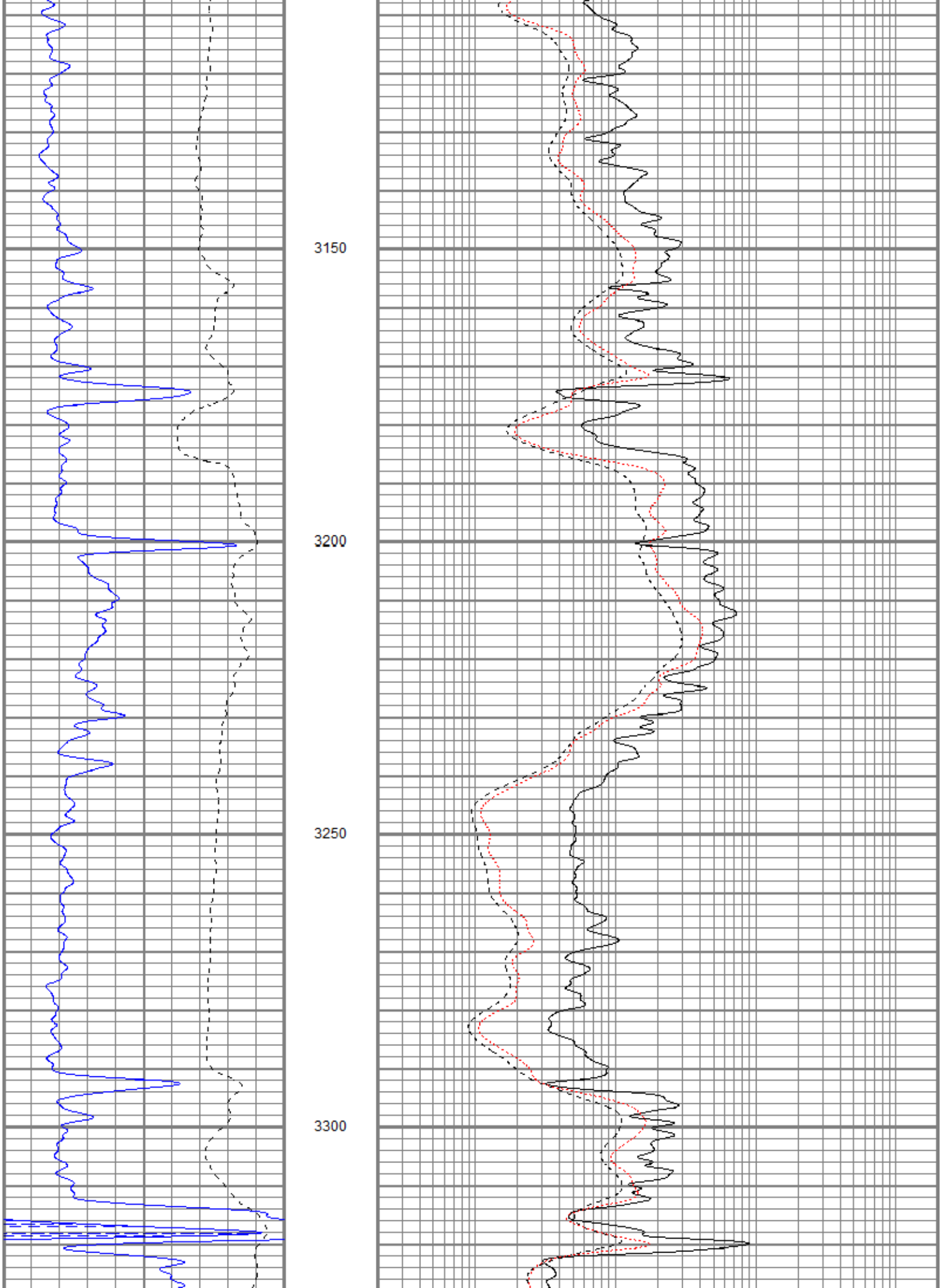

3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850

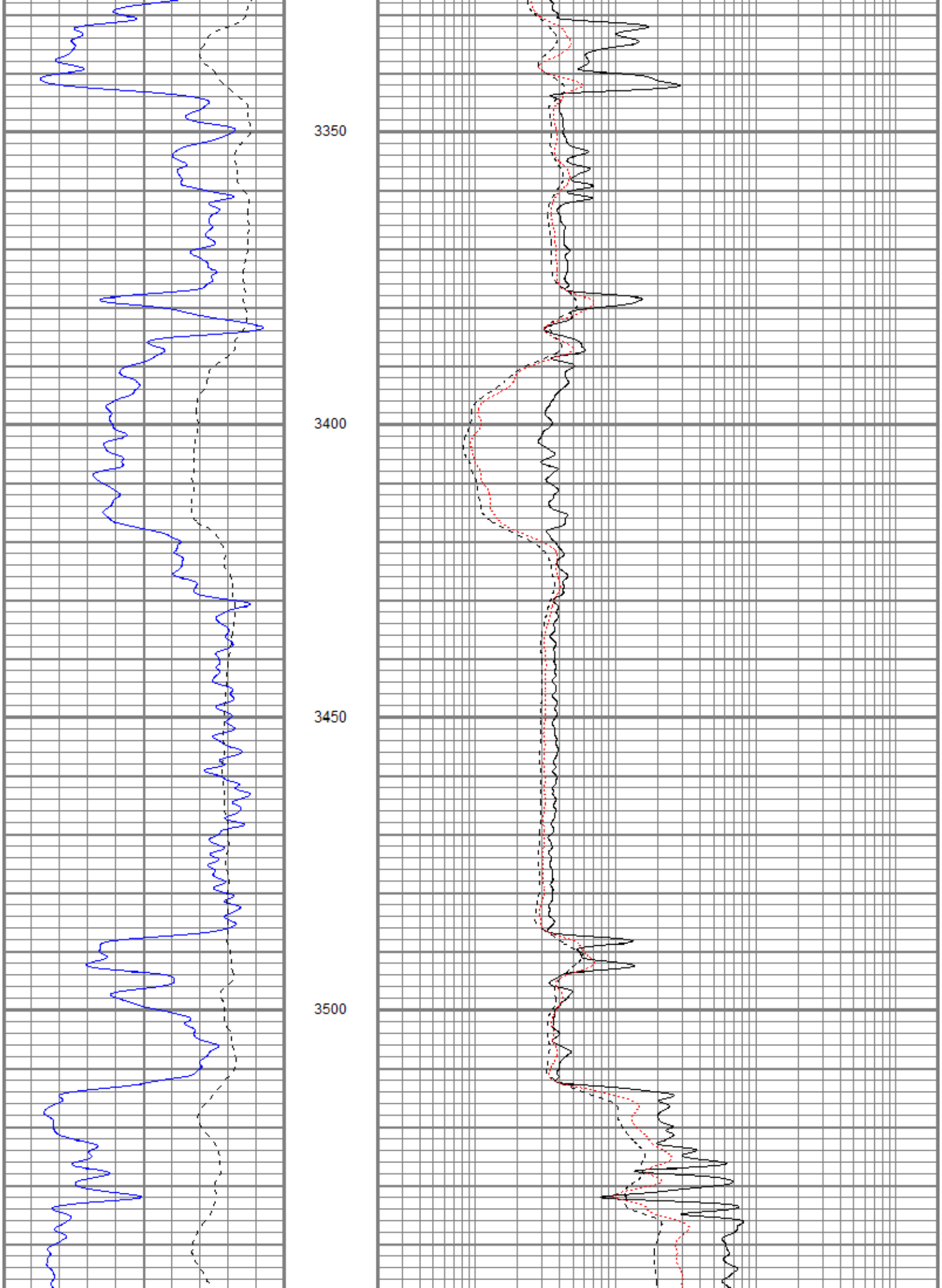


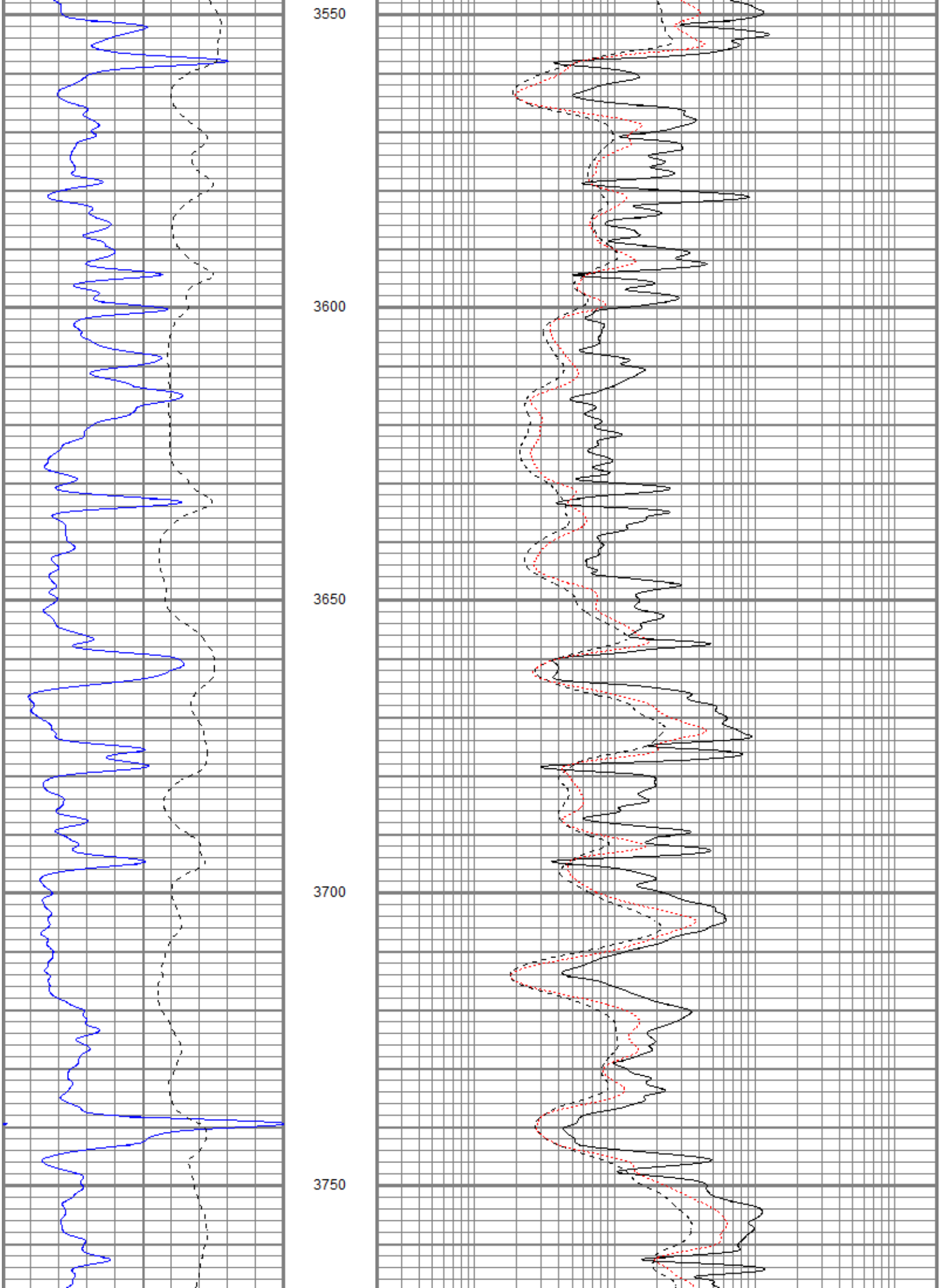
Main Pass

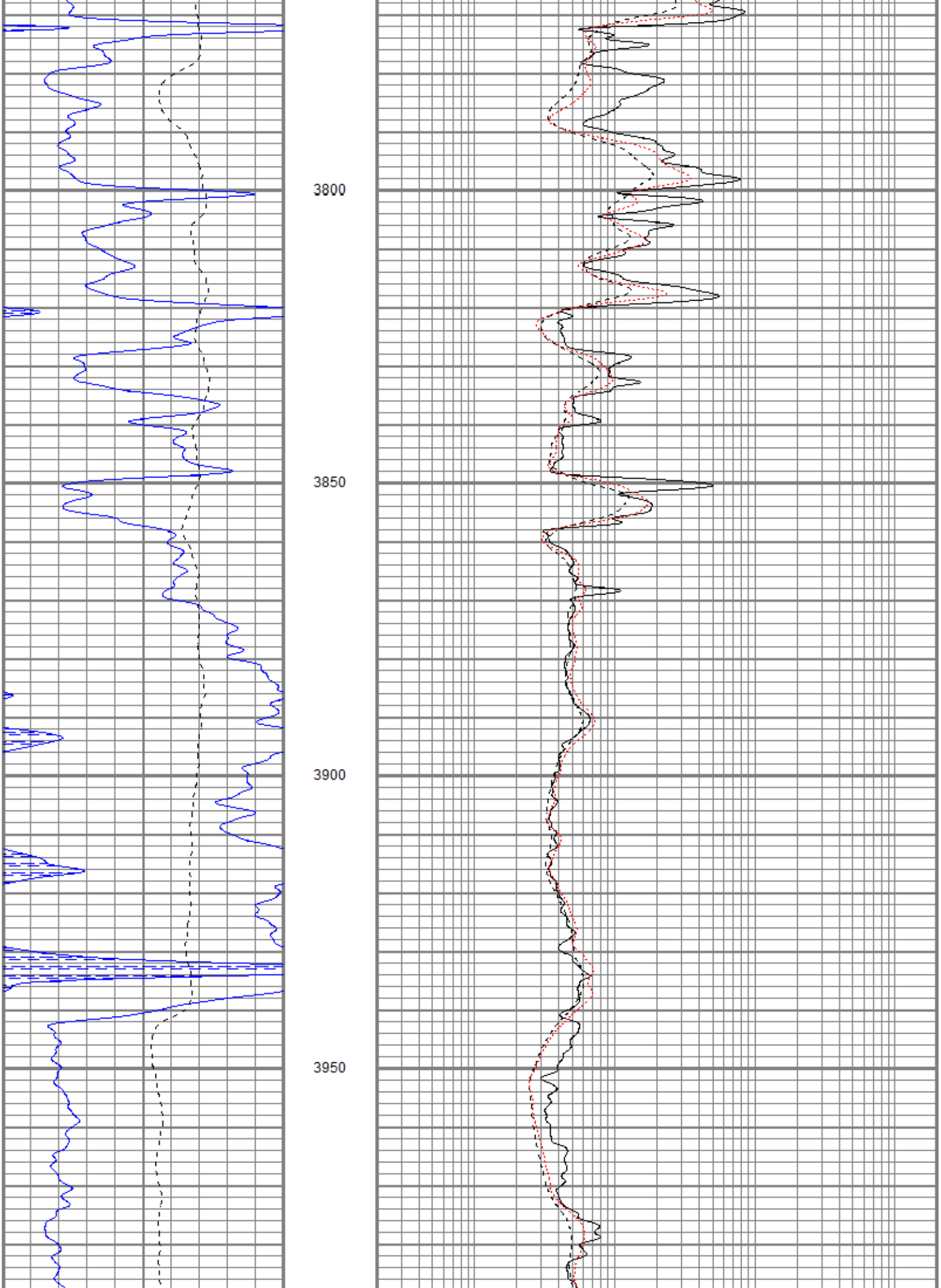
Database File	hddozier#1oh.db
Dataset Pathname	pass3main
Presentation Format	kdil
Dataset Creation	Tue Jun 14 05:30:16 2016
Charted by	Depth in Feet scaled 1:240

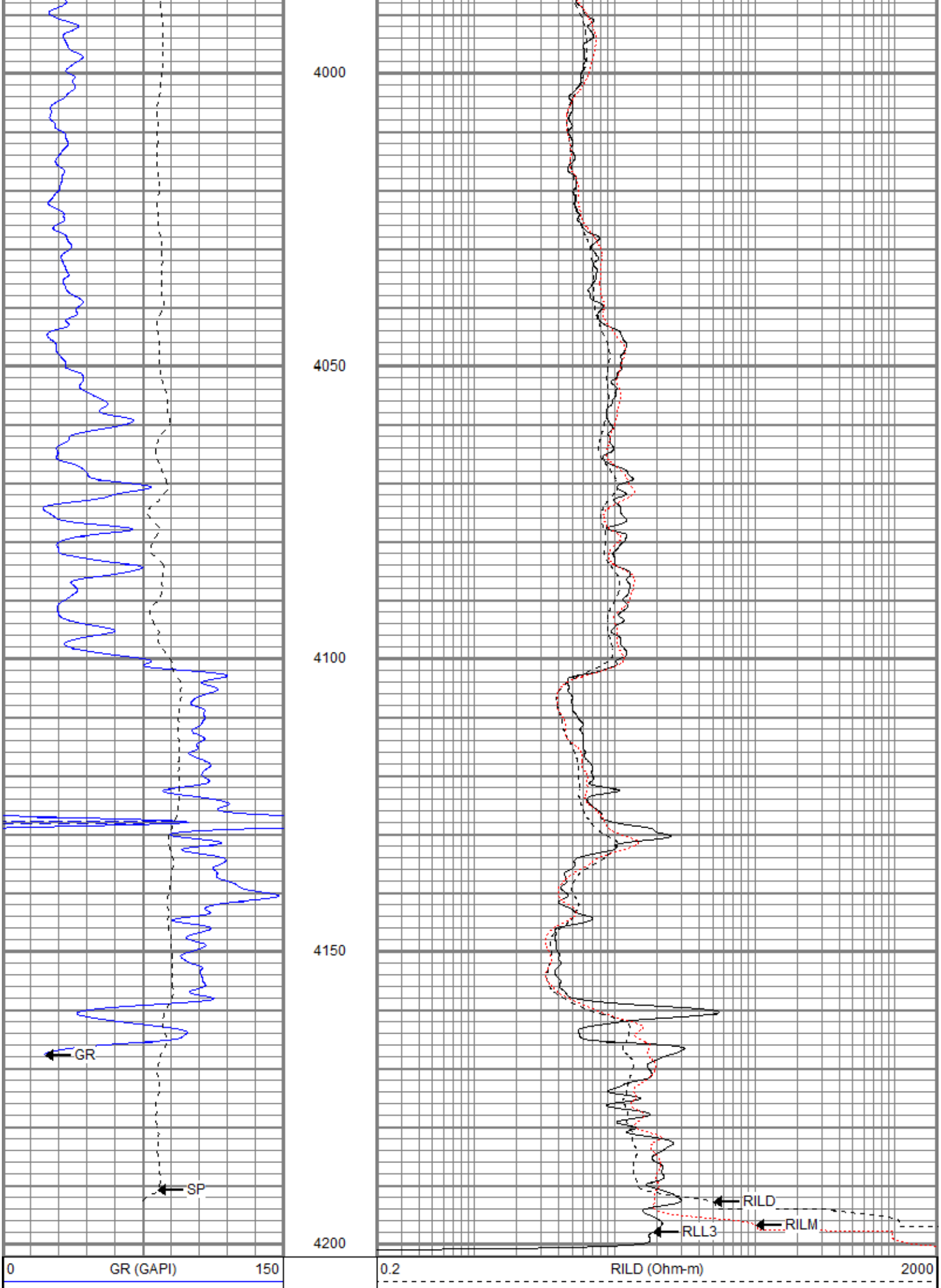



3150
3200
3250
3300


3350
3400
3450
3500


3550
3600
3650
3700
3750


3800
3850
3900
3950


4000
4050
4100
4150
4200
GR
SP
RILD
RILM
RLL3
0
GR (GAPI)
150
0.2
RILD (Ohm-m)
2000

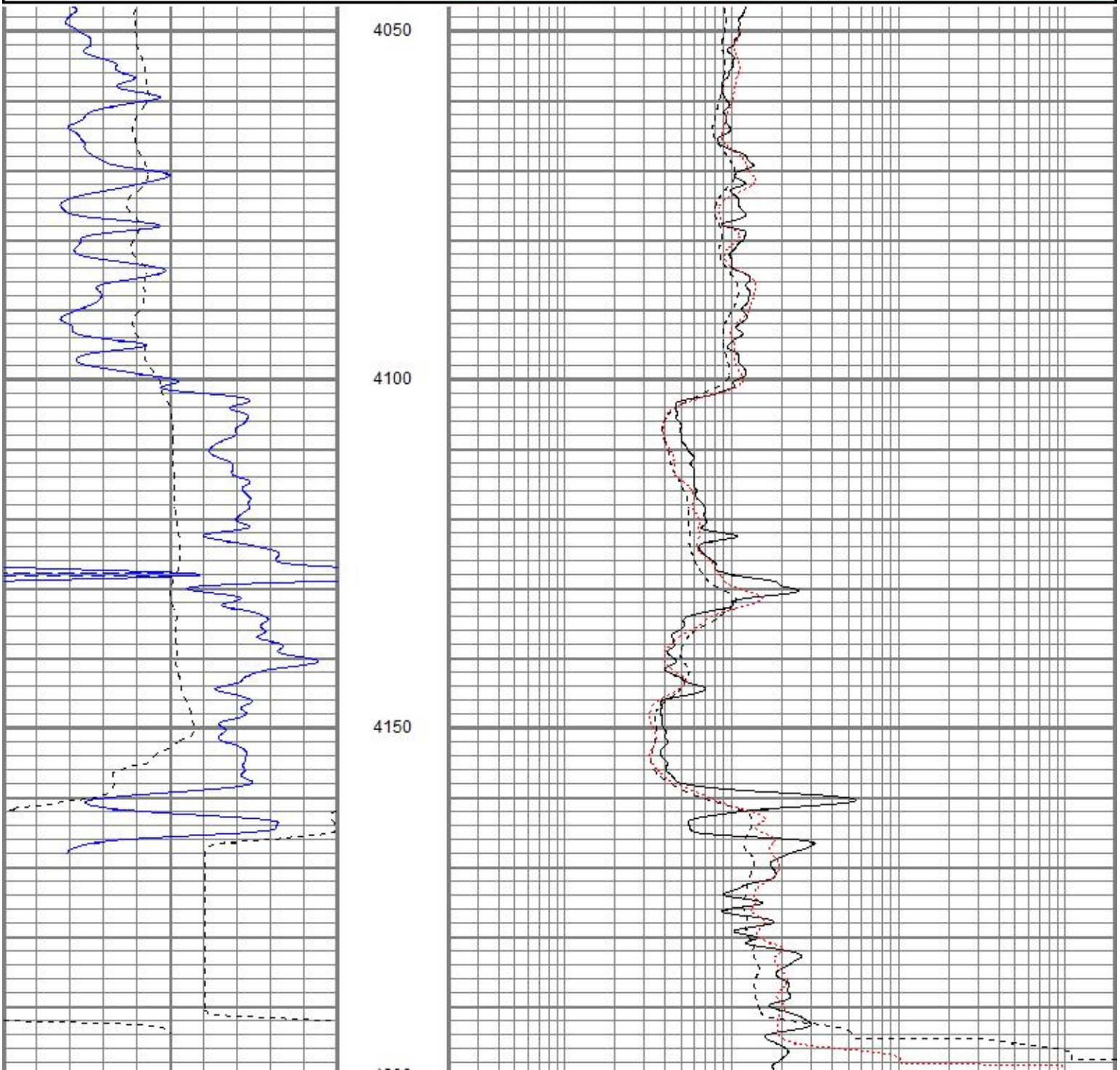
-100	SP (mV)	100
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

Repeat Pass

Database File	hddozier#1oh.db
Dataset Pathname	pass2
Presentation Format	kdil
Dataset Creation	Tue Jun 14 04:38:04 2016
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000





Calibration Report

Database File hddozier#1oh.db
Dataset Pathname pass2
Dataset Creation Tue Jun 14 04:38:04 2016

Dual Induction Calibration Report

Serial-Model:	5375-G
Surface Cal Performed:	Tue Jun 14 04:36:54 2016
Downhole Cal Performed:	Tue Jun 14 04:37:33 2016
After Survey Verification Performed:	Tue Jun 14 04:37:33 2016

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.019	0.668	V	0.000	350.000	mmho/m	509.788	9.664
Medium	0.003	0.732	V	0.000	400.000	mmho/m	548.634	-1.470
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.016	0.668	V	0.000	350.000	mmho/m	511.493	8.207
Medium	0.002	0.737	V	0.000	550.000	mmho/m	747.662	-1.132

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	2.082	347.794	mmho/m	1.484	350.317	mmho/m	1.009	-0.616
Medium	-0.599	402.029	mmho/m	-0.640	402.950	mmho/m	1.002	-0.039
Shallow	2.424	0.019	V	500.000	2.000	Ohm-m	207.121	-2.005

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.082	347.794	mmho/m	1.009	-0.616
Medium	0.000	0.000	mmho/m	-0.599	402.029	mmho/m	1.002	-0.039
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model:	2388DHT-DHT
Source / Verifier:	csv j12 / csv j12
Master Calibration Performed:	Fri Aug 01 09:45:19 2014
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	668.56	327.82	cps
Aluminum	2.650	g/cc	125.78	203.67	cps

Spine Angle = 74.10

Density/Spine Ratio = 0.518

Size	Reading

Small Ring	7.60	in	5695.86
Large Ring	14.00	in	9900.52

Before Survey Verification

	Target		Measured	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

After Survey Verification

	Target		Measured	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Thu Jan 21 09:36:03 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2400	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Thu Jan 21 09:36:17 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-None	0.75	1.50	5.00
NEU	38.26		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
SP	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
CILD	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: hddozier#1oh.db: field/well/run1/pass2
Total length: 40.39 ft

Total weight:	676.00 lb
O.D.:	4.00 in