DUAL INDUCTION LOG

GEMINI WIRELINE

Company	Palomino Petroleum
Well	Nichol #3
Field	Rosemary Southeast
County	Trego
State	Kansas

Company Palomino Petroleum

Well Nichol #3

Field Rosemary Southeast

County Trego **State** Kansas

Location: API # : 15 195 23080

2040' FSL & 2230' FEL

SEC 21 TWP 14S RGE 25W

Other Services: CDNL, ML

Permanent Datum: Ground Level — Elevation 2359'

Log Measured From: KB 8' AGL

Drilling Measured From: KB

Elevation: K.B. 2367', D.F. 2366', G.L. 2359'

Date	12-20-18		
Run Number	One		
Depth Driller	4333'		
Depth Logger	4334'		
Bottom Logged Interval	4332'		
Top Log Interval	200'		
Casing Driller	8 5/8" @ 218'		
Casing Logger	218'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud	Chlorides 5400 PPM	
Density / Viscosity	9.3/57		
pH / Fluid Loss	9.5/8.8		
Source of Sample	Pit		
Rm @ Meas. Temp	1.2@76degf		
Rmf @ Meas. Temp	0.9@76degf		
Rmc @ Meas. Temp	1.44@76degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	0.84@109degf		
Time Circulation Stopped	1:15 p.m.		
Time Logger on Bottom	3:40 p.m		
Maximum Recorded Temperature	109degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	C.Patterson		
Witnessed By	Mr. Ryan Seib		

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Comments

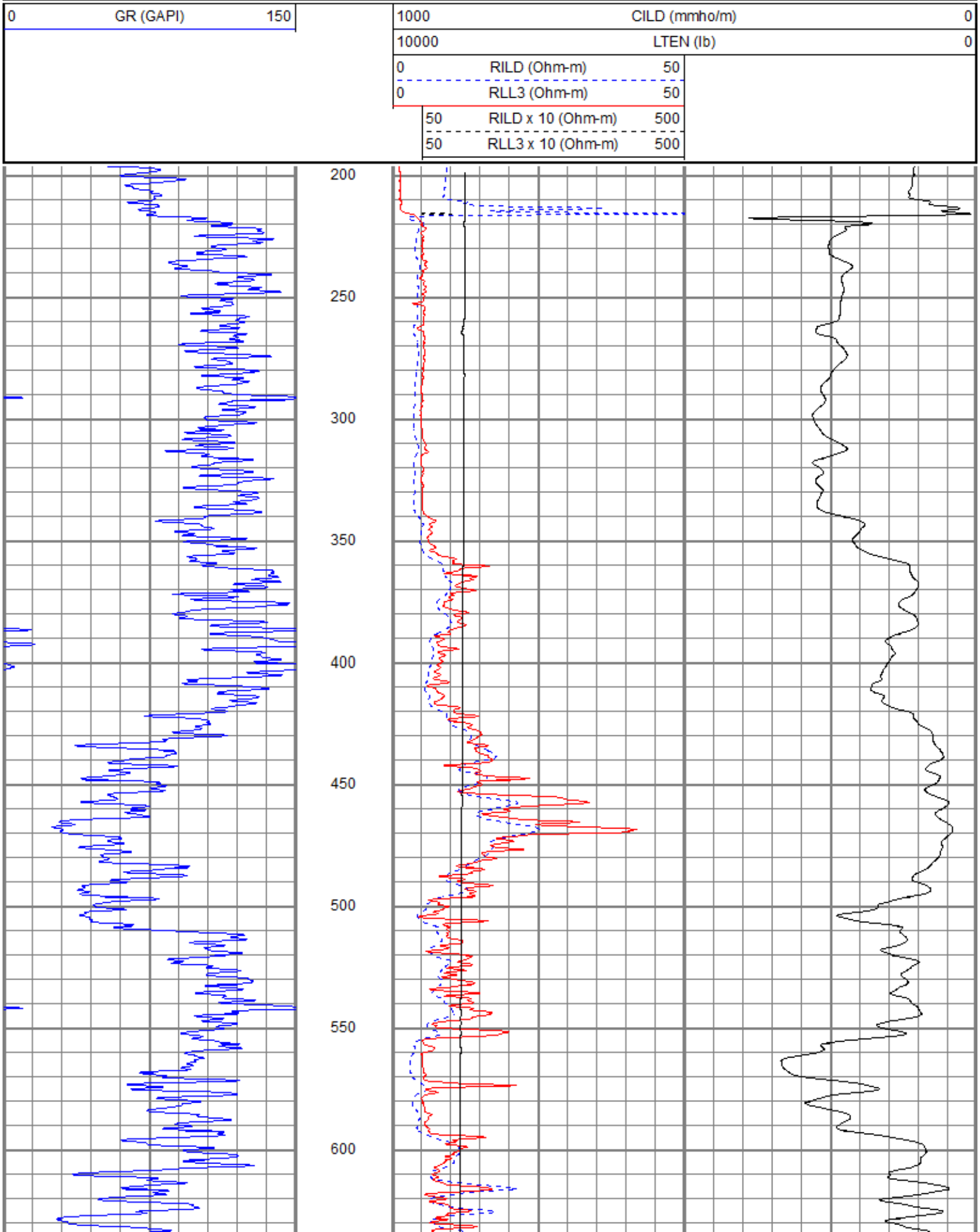
Collyer,KS Exit115 Banner Road Exit ,
Then go South on KS-198(130 ave or Co Rd.523) for 14 mi.,
Tank Batteries on east and west side of road
East into Location on south side of tank batteries

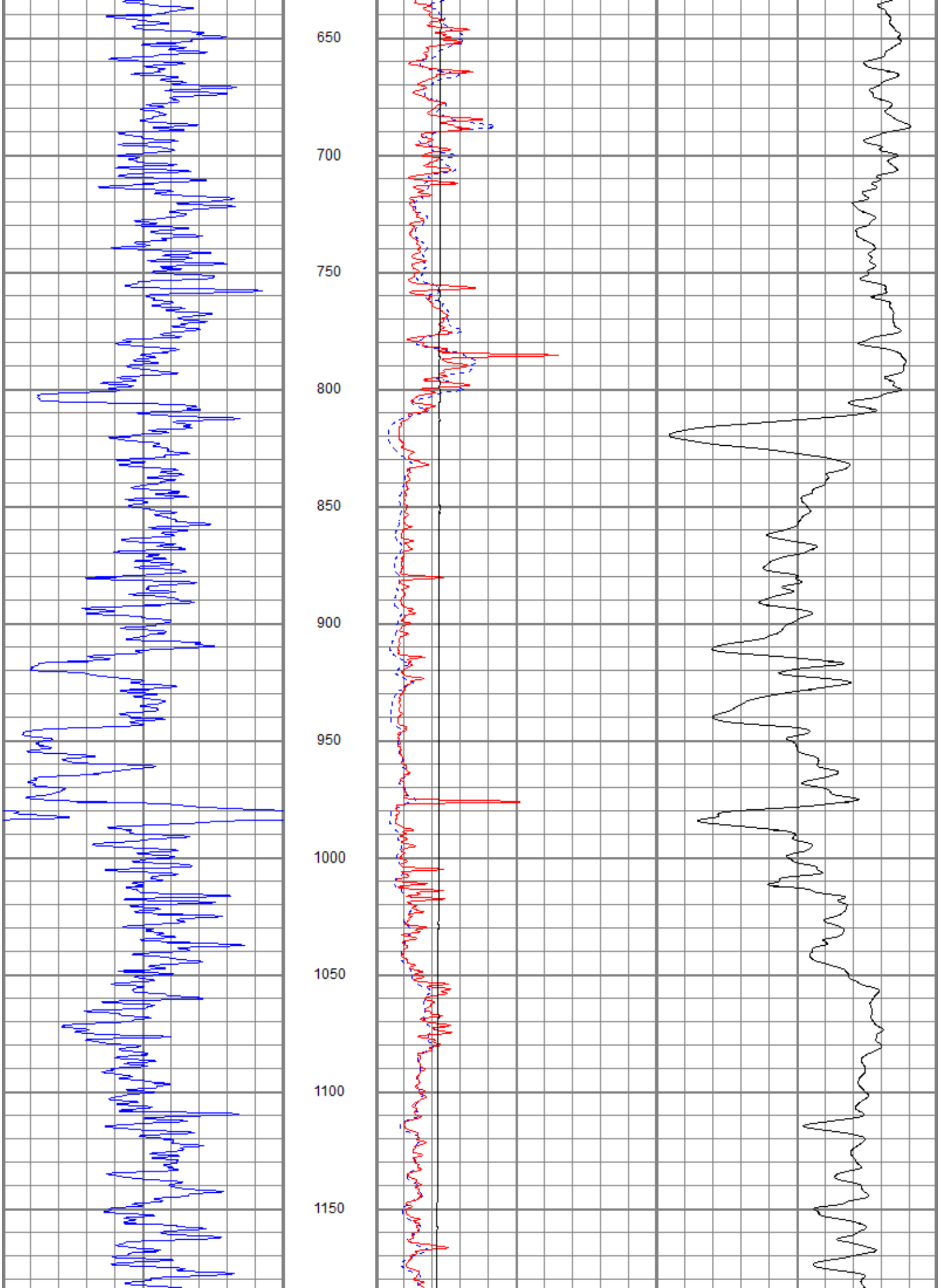
Thanks for using Gemini Wireline LLC
785-625-1182

GEMINI WIRELINE

MAIN PASS

Database File	ppnichol#3oh.db
Dataset Pathname	pass2.1
Presentation Format	kdillinn
Dataset Creation	Thu Dec 20 17:05:40 2018
Charted by	Depth in Feet scaled 1:600

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800
850
900
950
1000
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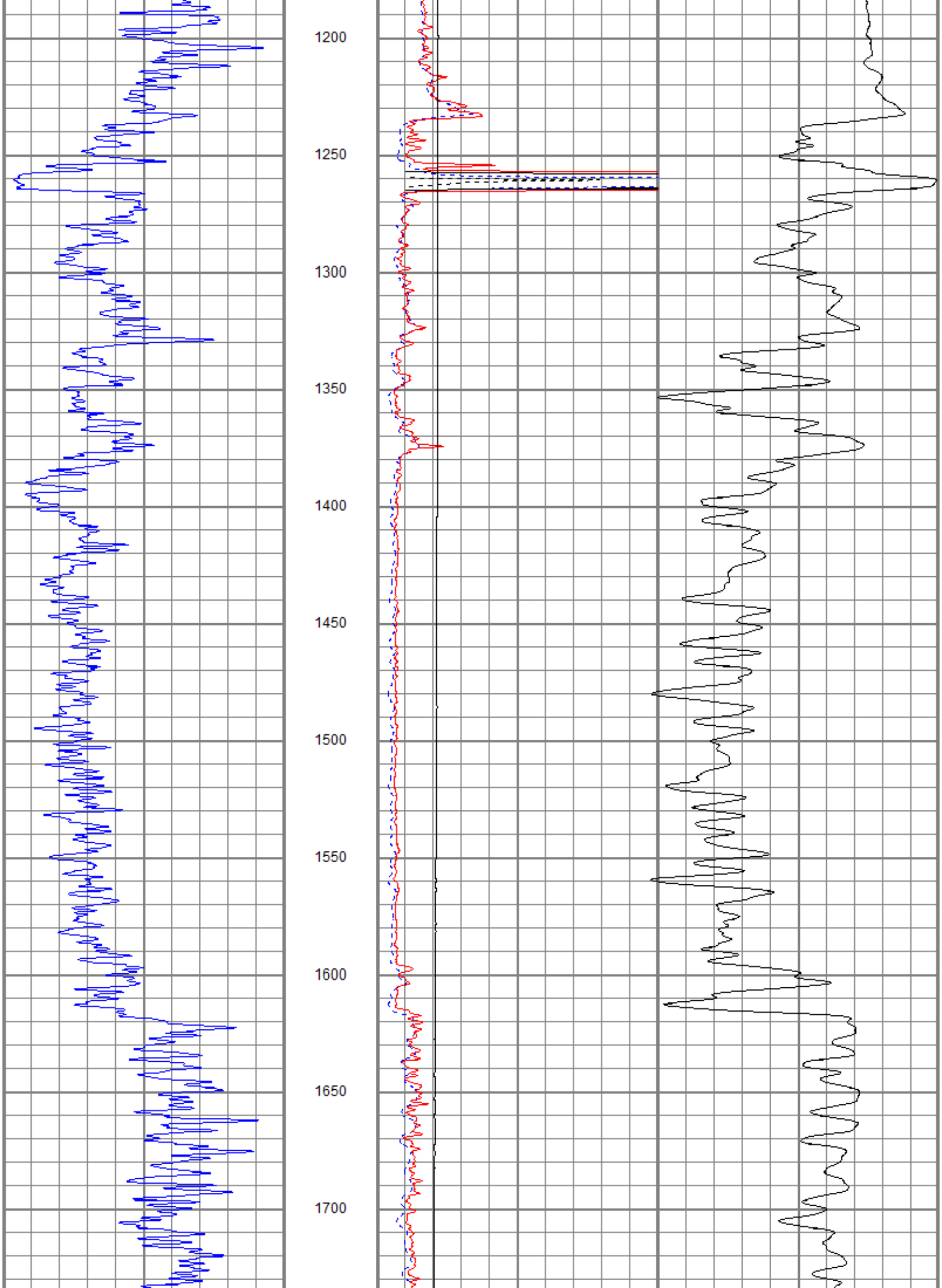
1100
1150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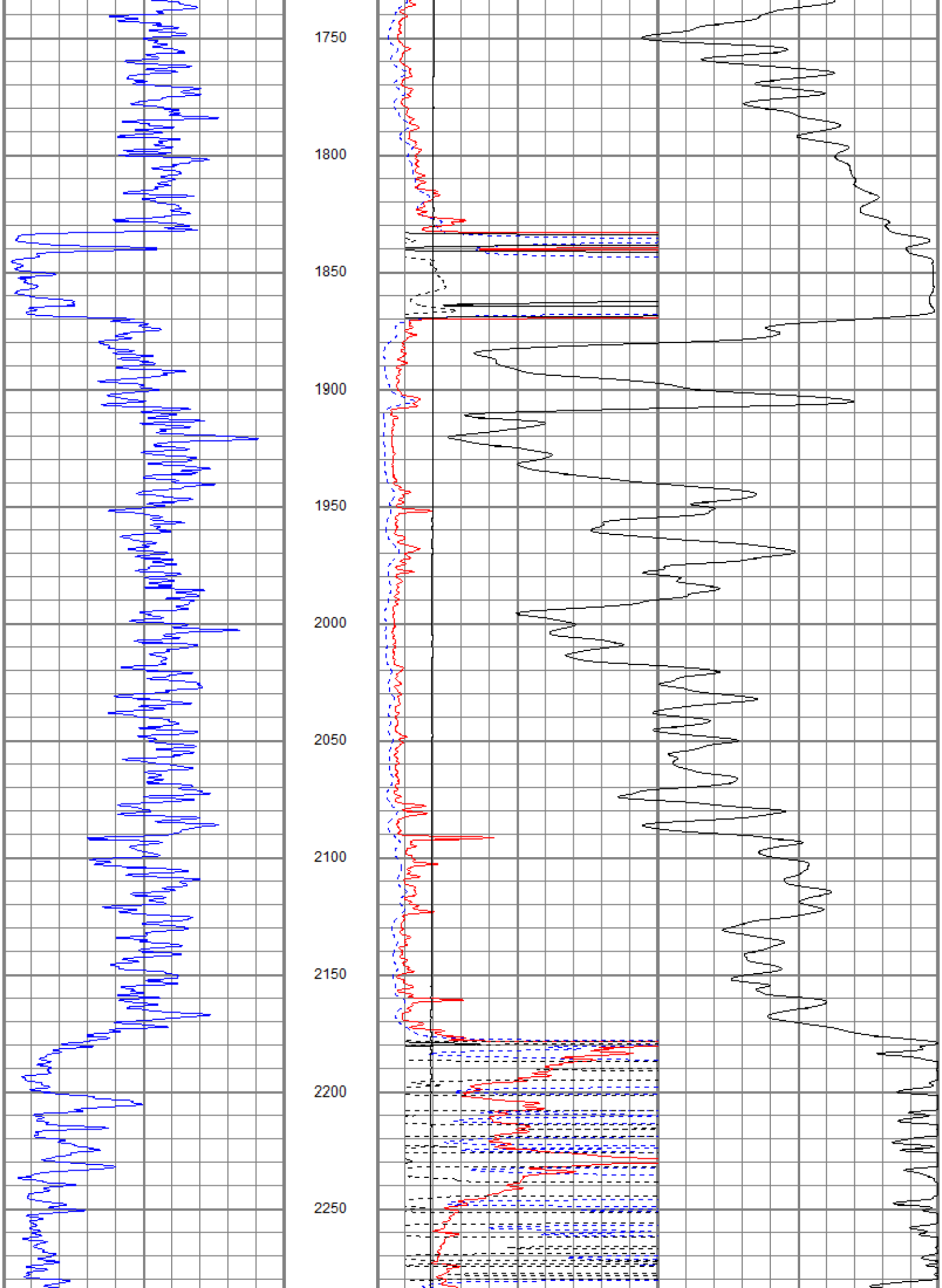
1350
1400
1450
1500
1550
1600
1650
1700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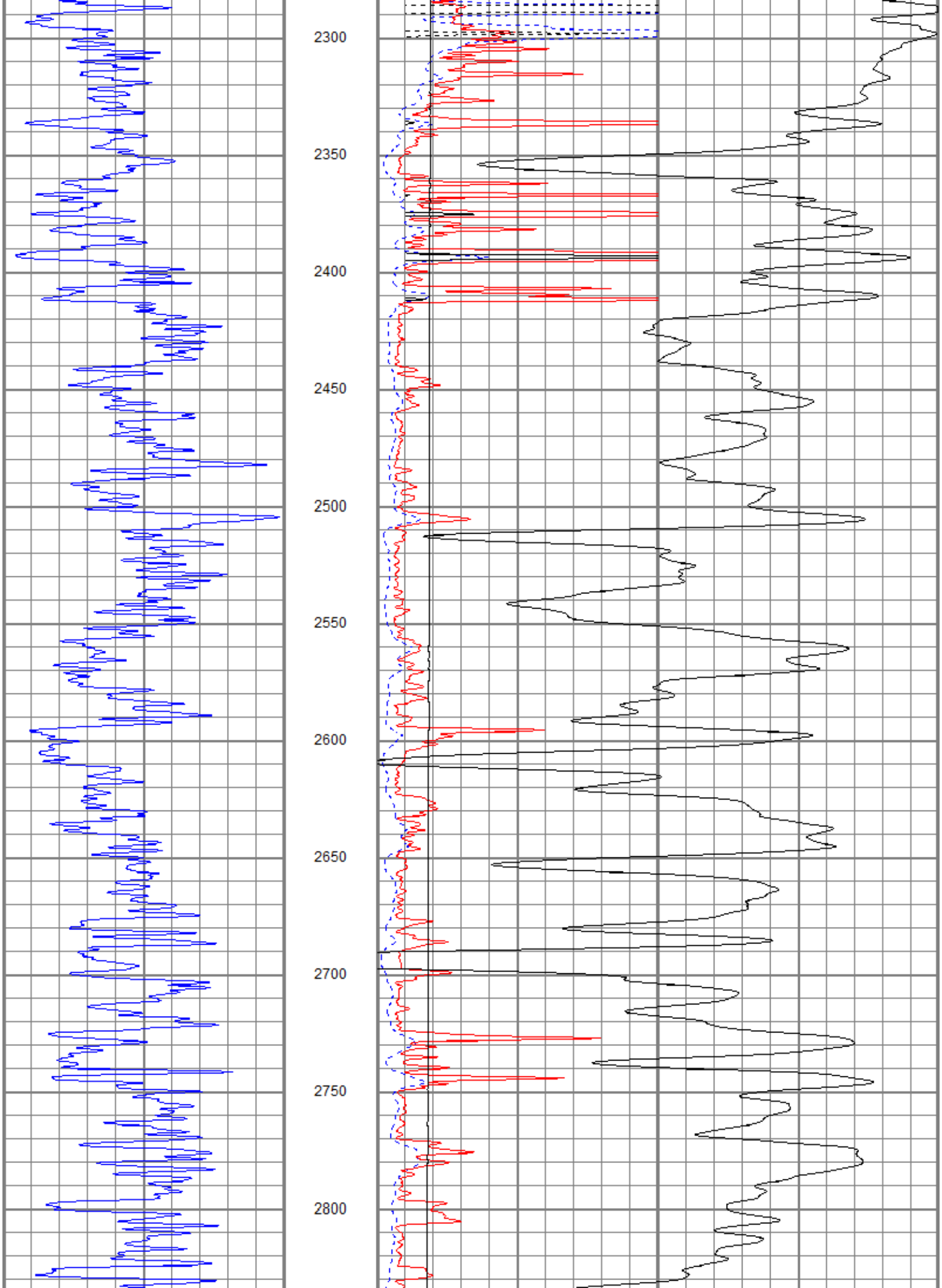
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2600
2650
2700
2750
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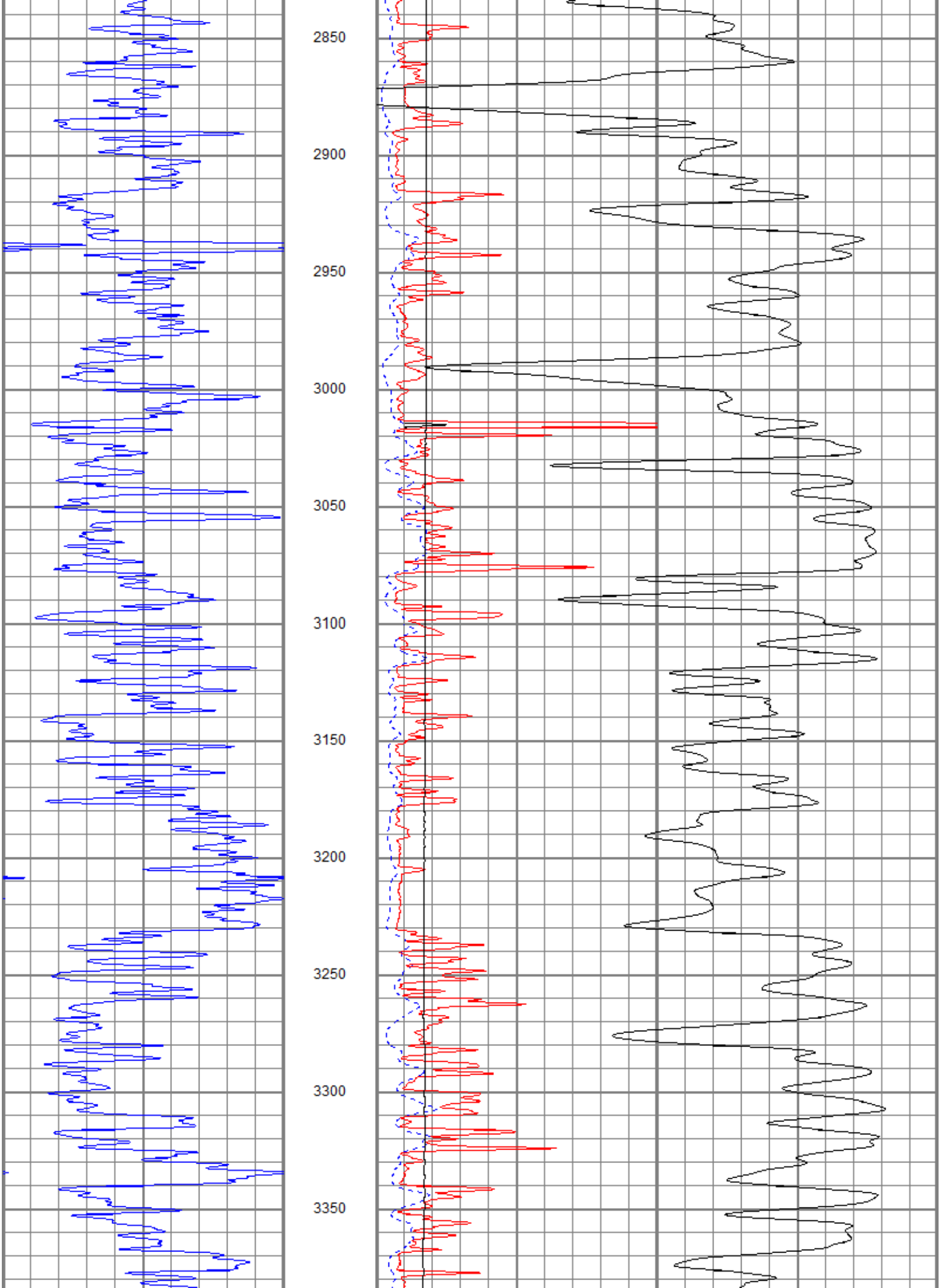
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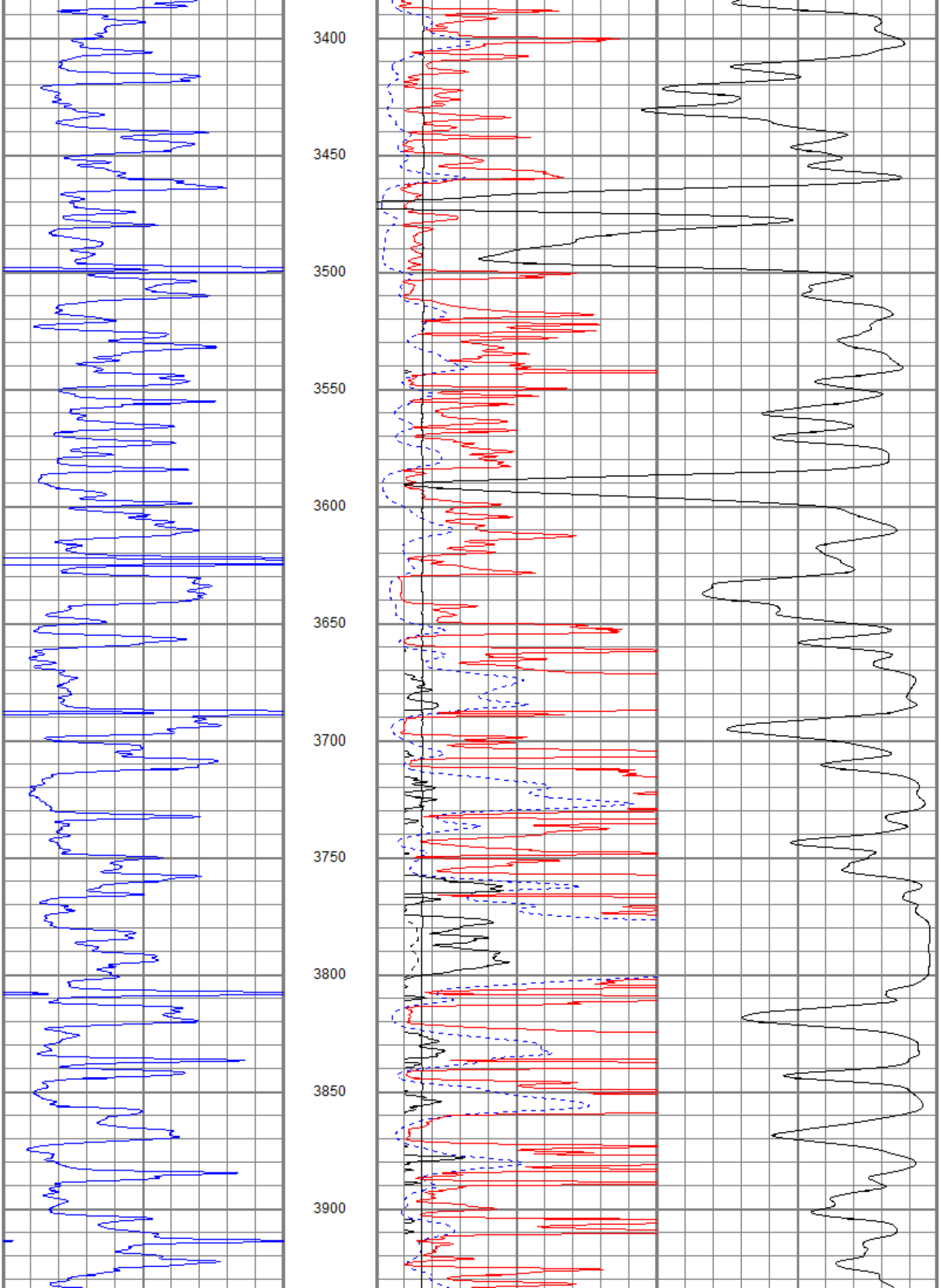
3300
3350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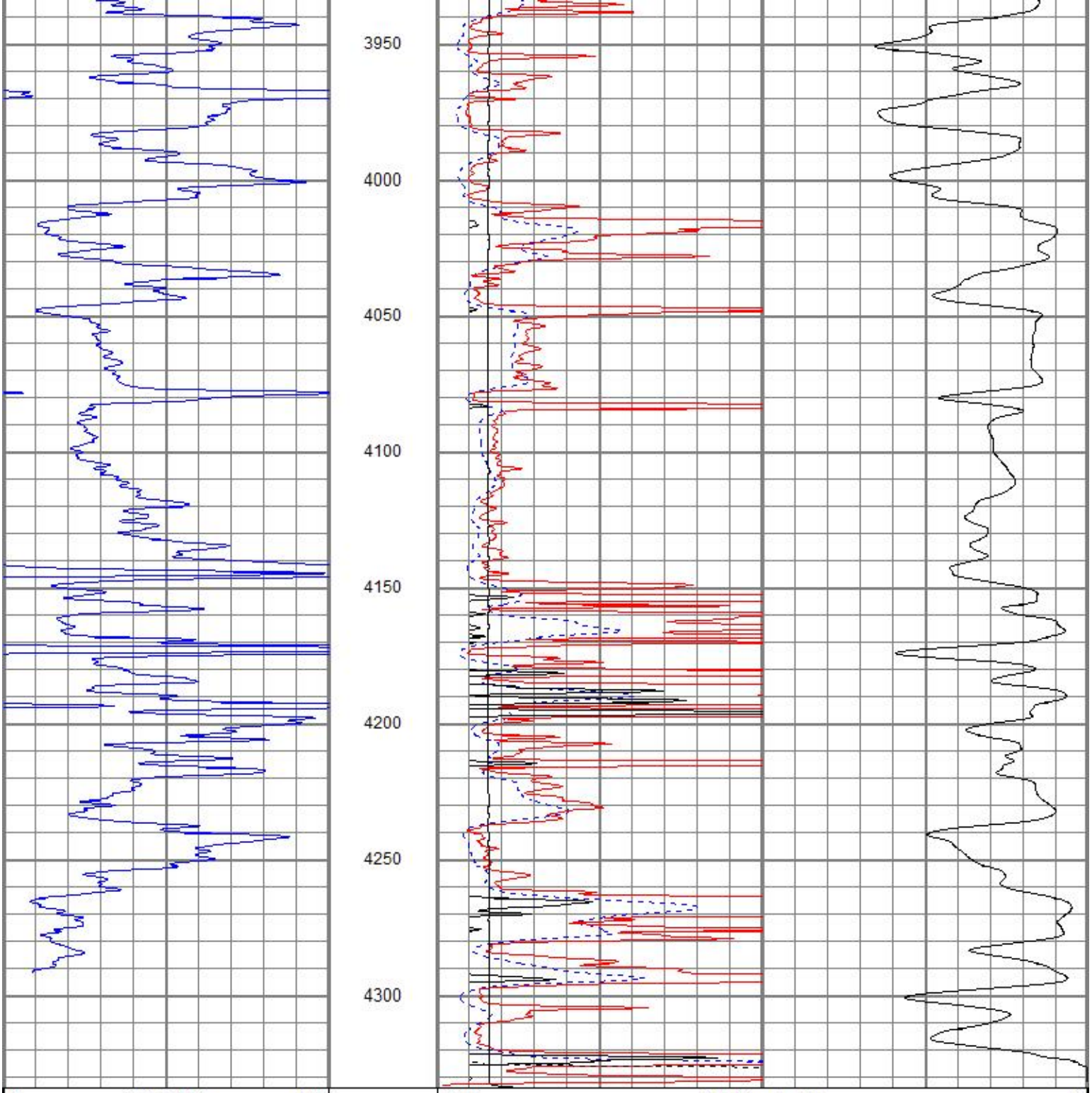


GEMINI WIRELINE

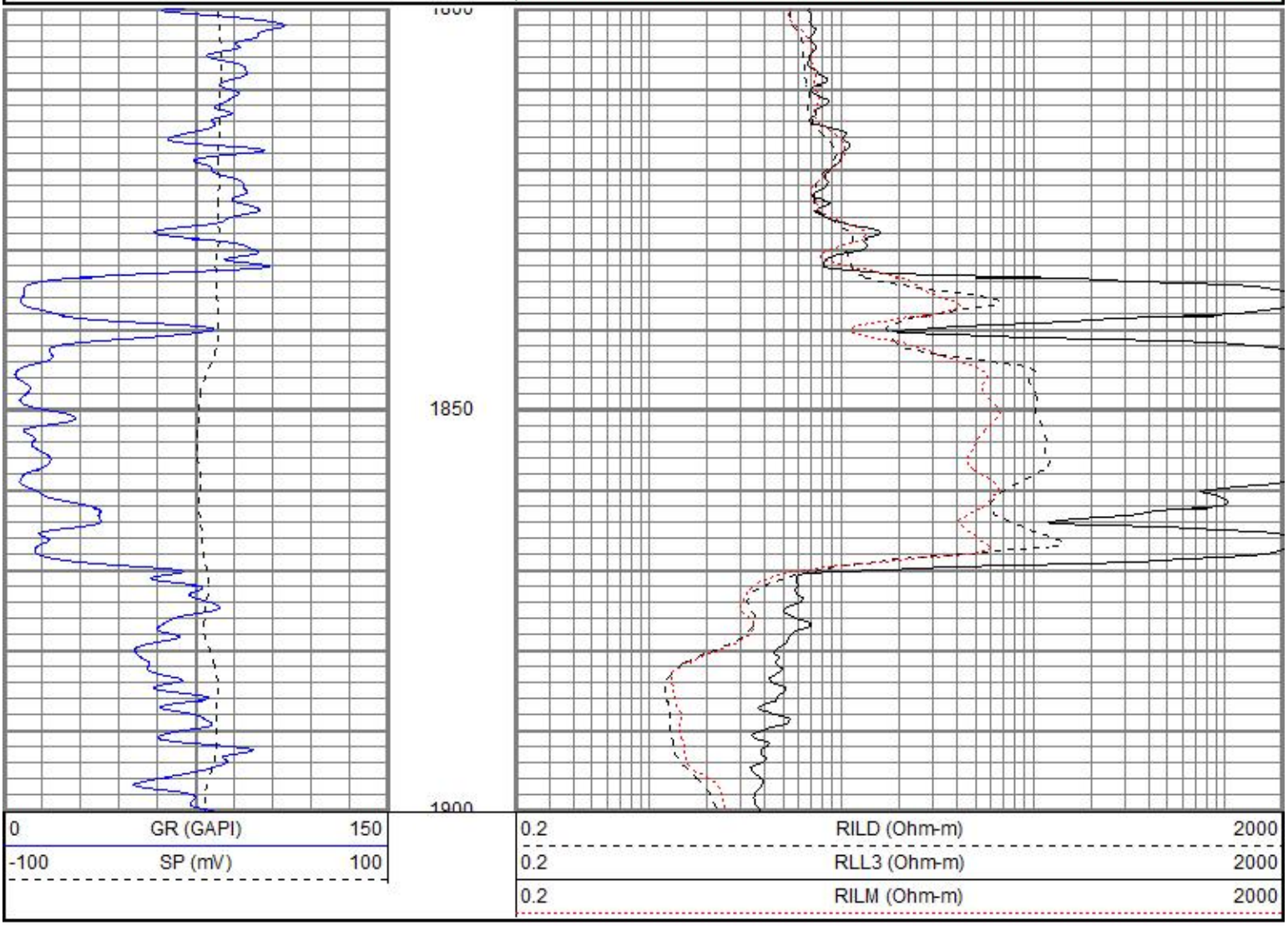
MAIN PASS

Database File	ppnichol#3oh.db
Dataset Pathname	pass2.1

Presentation Format	kdil
Dataset Creation	Thu Dec 20 17:05:40 2018
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



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

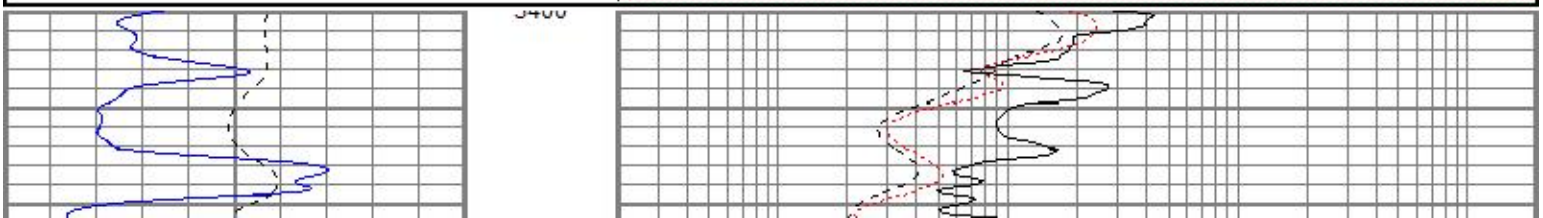
GEMINI WIRELINE

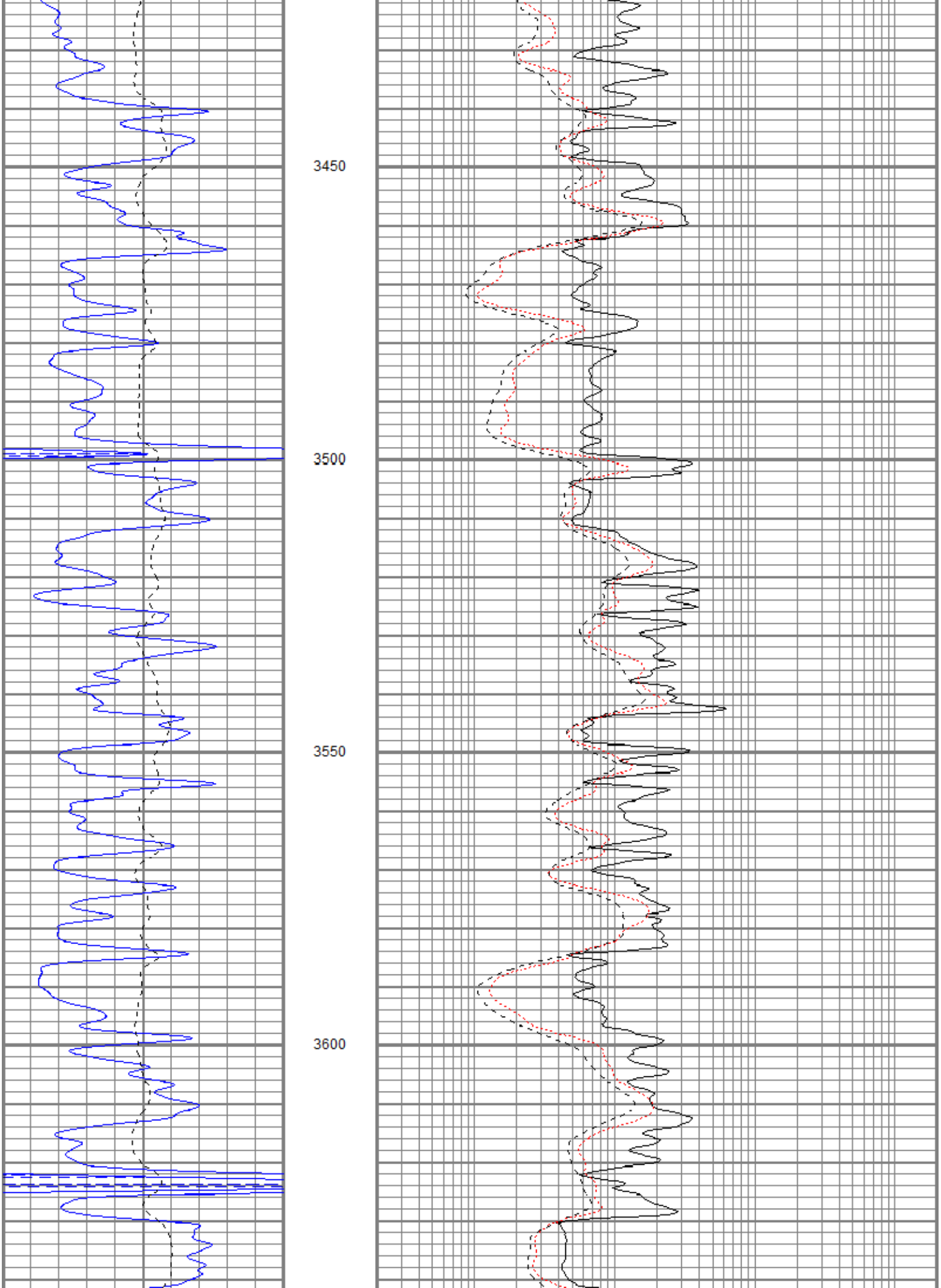
MAIN PASS

Database File	ppnichol#3oh.db
Dataset Pathname	pass2.1
Presentation Format	kdil
Dataset Creation	Thu Dec 20 17:05:40 2018
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

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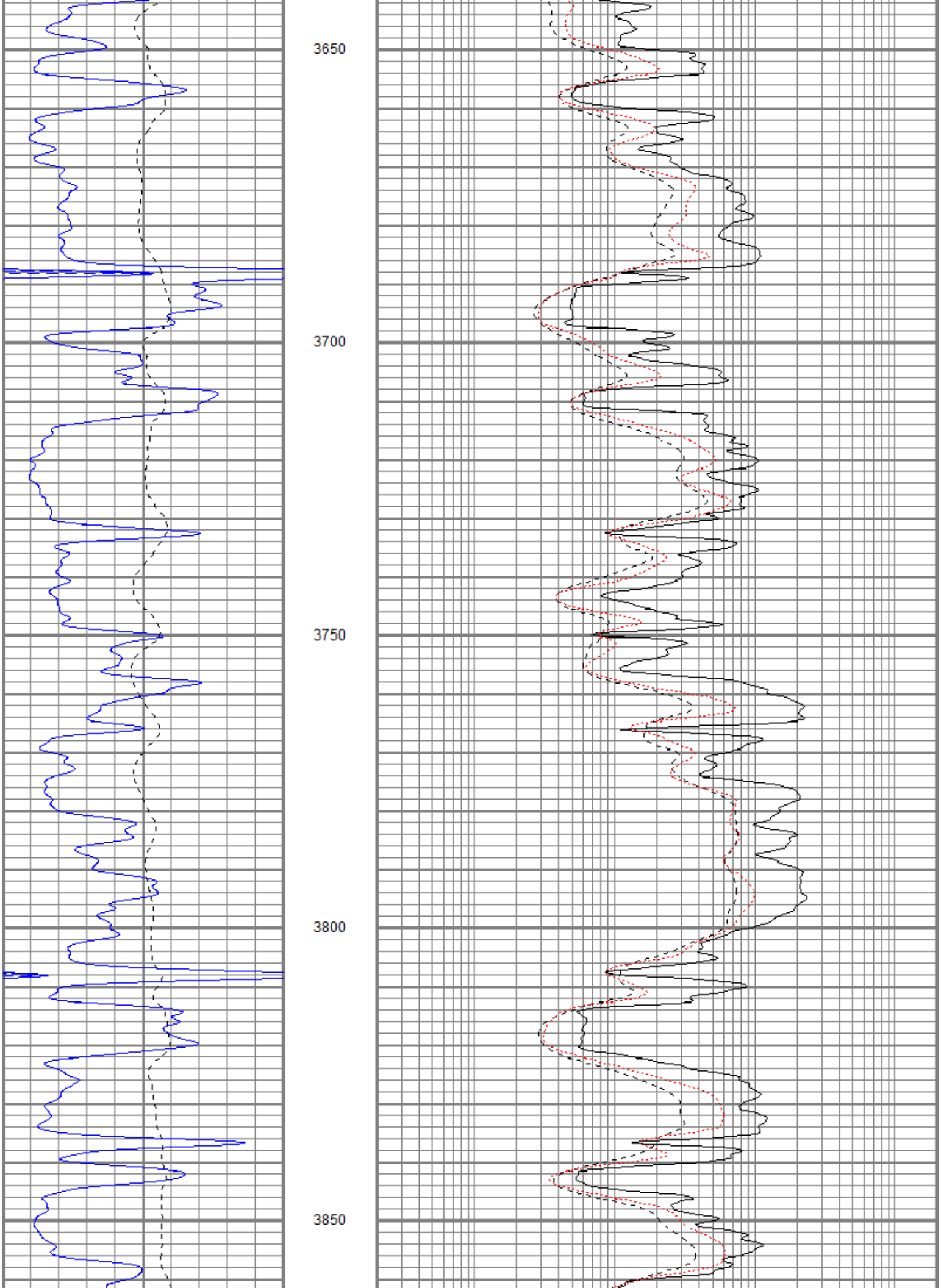
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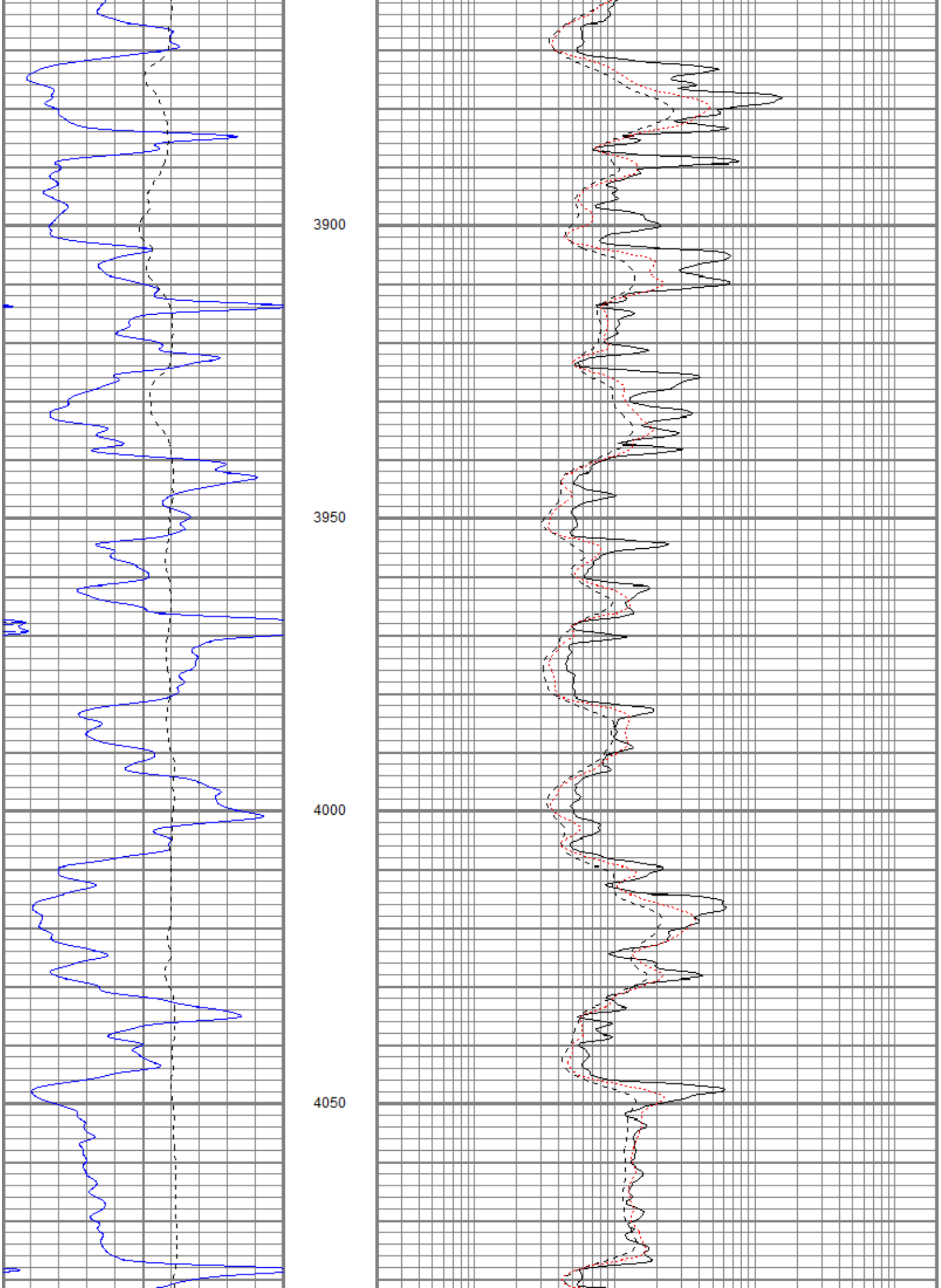
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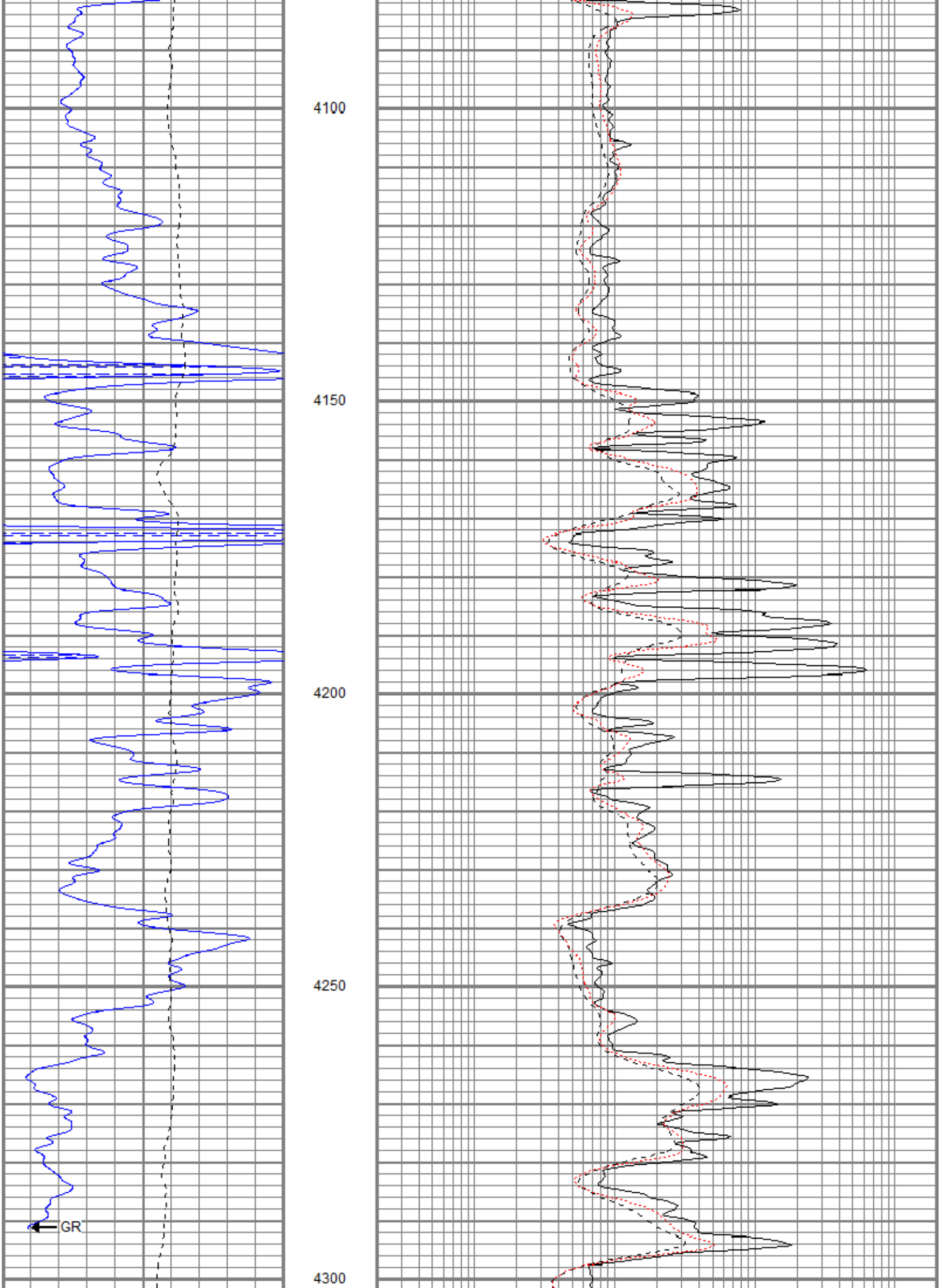
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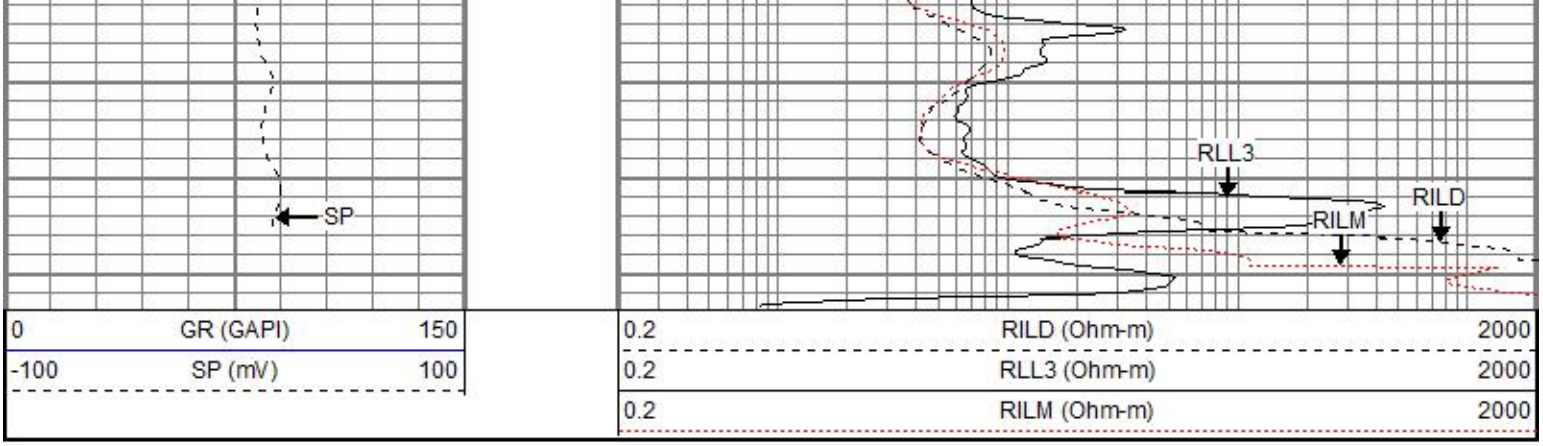
GR



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

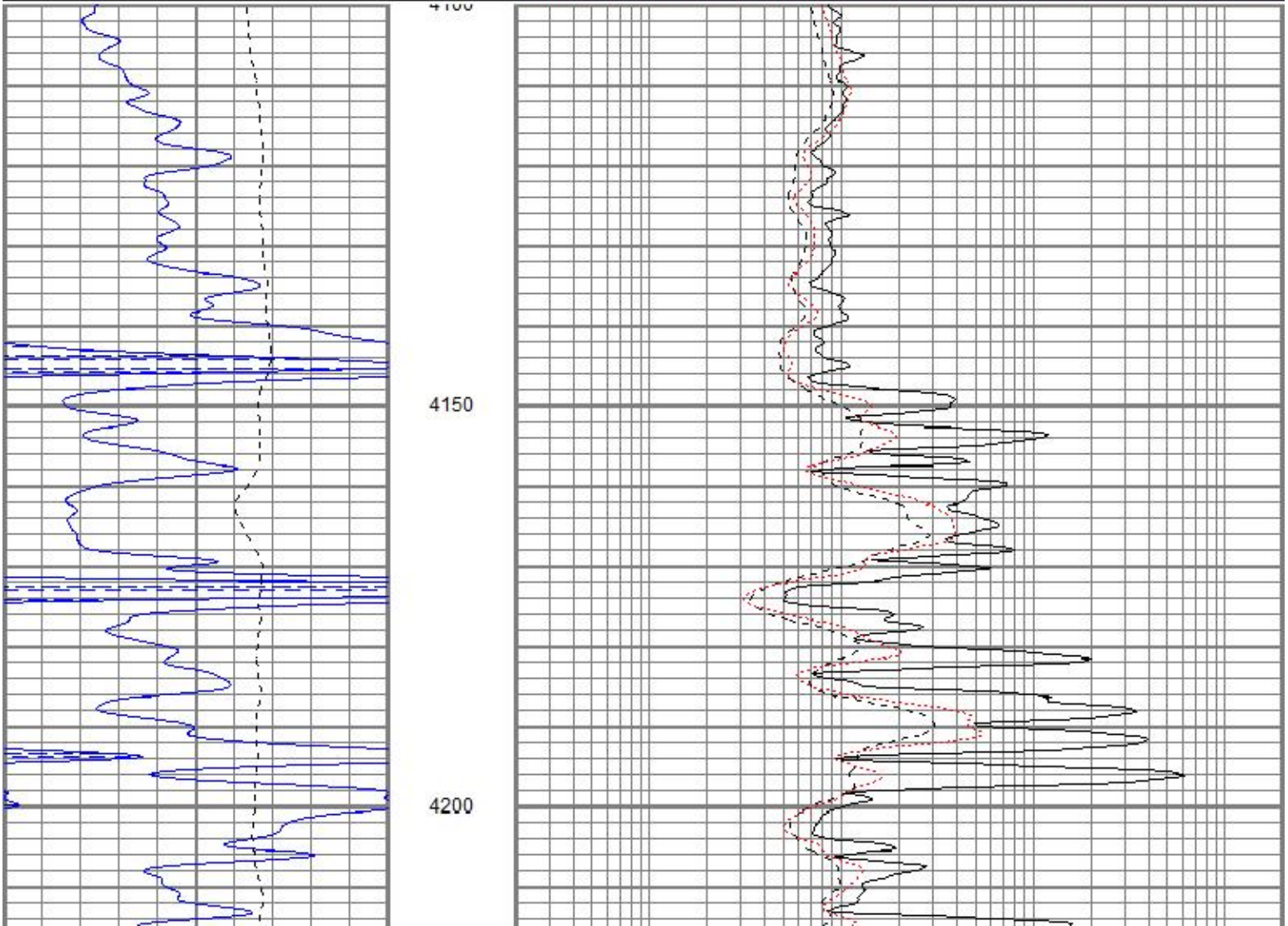
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

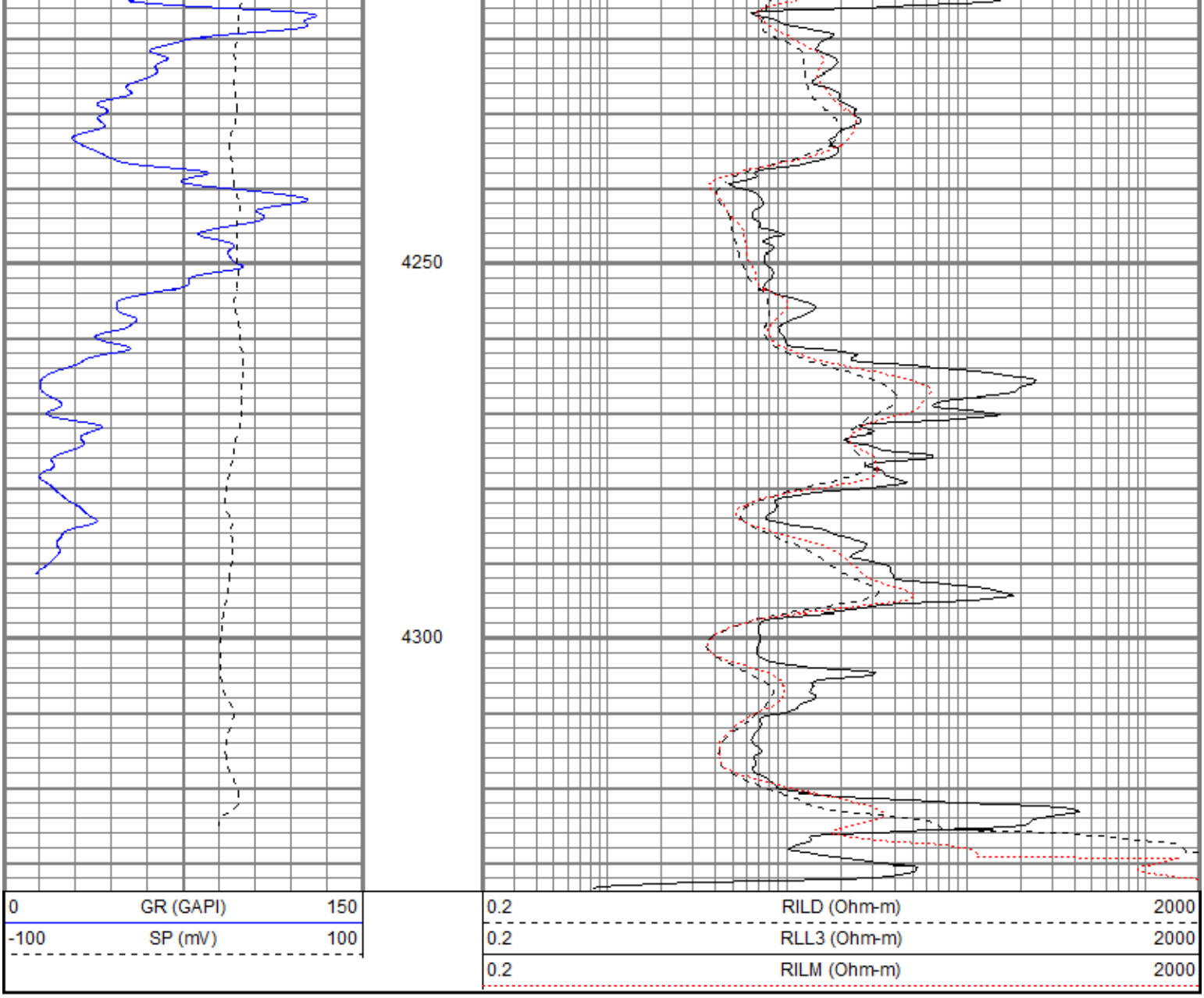
REPEAT SECTION

Database File	ppnichol#3oh.db
Dataset Pathname	pass1.1
Presentation Format	kdil
Dataset Creation	Thu Dec 20 16:37:41 2018
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	ppnichol#3oh.db
Dataset Pathname	pass2.1
Dataset Creation	Thu Dec 20 17:05:40 2018

Dual Induction Calibration Report

Serial-Model:	5375-G
Surface Cal Performed:	Sat Oct 10 08:33:18 2015
Downhole Cal Performed:	Wed Dec 05 05:00:18 2018
After Survey Verification Performed:	Sat Oct 10 08:33:27 2015

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.007	0.642	V	0.000	350.000	mmho/m	551.294	-3.816
Medium	0.010	0.728	V	0.000	400.000	mmho/m	556.531	-5.391
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.642	V	0.000	350.000	mmho/m	550.717	-3.768
Medium	0.010	0.729	V	0.000	550.000	mmho/m	764.510	-7.354

Downhole Calibration

Downhole Calibration

Internal:	Readings Zero	Readings Cal		References Zero	References Cal		Results m	Results b
Deep	0.145	350.239	mmho/m	-0.044	350.323	mmho/m	1.001	-0.189
Medium	0.435	400.472	mmho/m	-0.037	400.340	mmho/m	1.001	-0.473
Shallow	2.440	0.018	V	500.000	2.000	Ohm-m	205.554	0.825

After Survey Verification

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results b'
Deep	0.000	0.000	mmho/m	0.145	350.239	mmho/m	1.001	-0.189
Medium	0.000	0.000	mmho/m	0.435	400.472	mmho/m	1.001	-0.473
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number:	AD5139	
Tool Model:	ADMY5139	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Temperature Calibration Report

Serial Number:	WithMC			
Tool Model:	WMC			
Performed:	Wed Dec 05 04:54:01 2018			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

Inclinometer Calibration Report

Performed: Wed Dec 05 04:53:48 2018

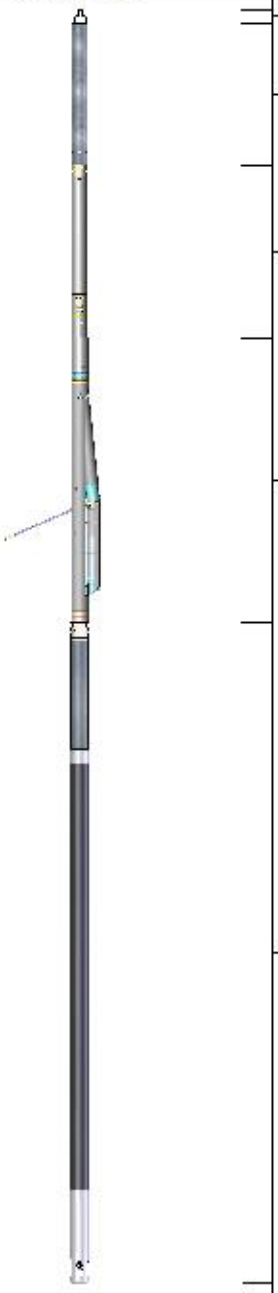
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	Wed Dec 05 04:58:30 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps

Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Sensor	Offset (ft)
GR	40.07
ACCY	38.91
ACCX	38.91
SSTAT	38.49
PSTAT	37.66
ASTAT	37.66
GRD	36.82
TEMP	36.82
NEU	32.76
LStat	24.30
LS8	23.64
LS7	23.64
LS6	23.64
LS5	23.64
LS4	23.64
LS3	23.64
LS2	23.64
LS1	23.64
LSV	23.64
LSD	23.62
SSV	23.43
SS8	23.43
SS7	23.43
SS6	23.43
SS5	23.43
SS4	23.43
SS3	23.43
SS2	23.43
SS1	23.43
DCAL	23.37
SSD	23.04
SP	10.60
CILD	10.60
CILM	6.89
RLL3	1.70
TR_Mon	0.00



Description	Length (ft)	O.D. (in)	Weight (lb)
CHD-STD	0.50	1.69	1.00
ADT-WMC (WithMC) Admyr Telemetry With Mudcell	4.58	3.50	120.00
NEU-ADMY5139 (AD5139) Admyer NEU DIGITAL	5.65	3.50	50.00
ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
DIL-G (5375) Gearhart	21.47	4.00	345.00

Dataset:	ppnichol#3oh.db: field/well/run1/pass2.1
Total length:	41.49 ft
Total weight:	756.00 lb
O.D.:	4.00 in