DUAL INDUCTION LOG

Company Meridian Energy
Well Hamel 3A
Field Lynd
County Rooks State KS

Company Meridian Energy
Well Hamel 3A
Field Lynd
County Rooks
State KS

Location: API # : 15 163 24145

330' FSL & 660' FWL

SEC 33 TWP 9S RGE 19W

Other Services

ML
CDNL

Elevation

K.B. 2213'
D.F. 2213'
G.L. 2208'

Permanent Datum	Ground Level	Elevation	2208'
Log Measured From	KB 5' AGL		
Drilling Measured From	KB		

Date	10-16-13		
Run Number	One		
Depth Driller	3830'		
Depth Logger	3830'		
Bottom Logged Interval	3829'		
Top Log Interval	3000'		
Casing Driller	5/8"@ 220'		
Casing Logger	220'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.3/58		
pH / Fluid Loss	10.0/8.8		
Source of Sample	Pit		
Rm @ Meas. Temp	1.95@85degf		
Rmf @ Meas. Temp	1.56@85degf		
Rmc @ Meas. Temp	2.5@85degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.44@115degf		
Time Circulation Stopped	5:00 p.m.		
Time Logger on Bottom	7:00 p.m.		
Maximum Recorded Temperature	115 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr. Pat Deenihan		

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Comments

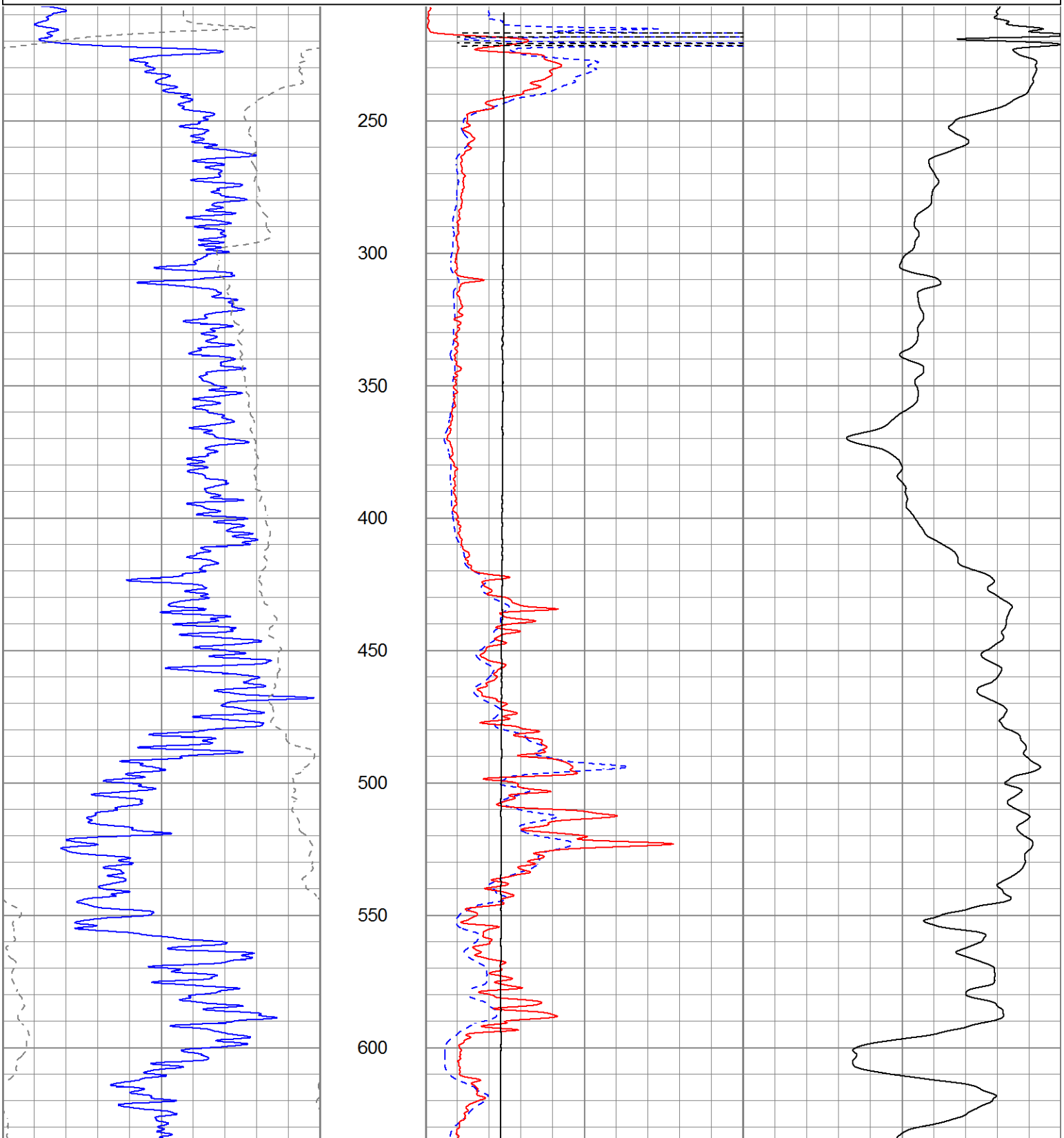
Thank you for using Gemini Wireline
785-625-1182

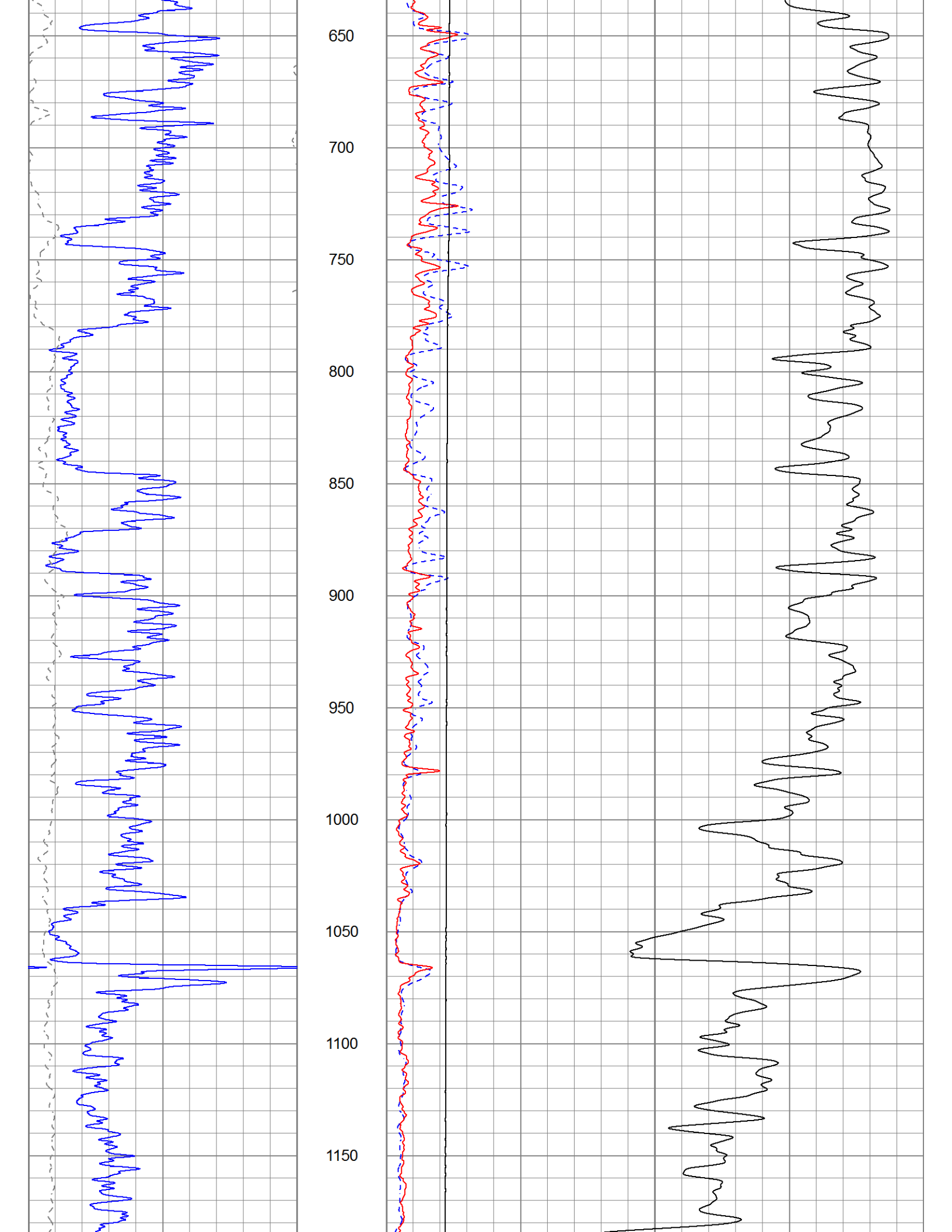
Main Pass

Database File	mehamel3aoh.db
Dataset Pathname	pass3.1
Presentation Format	kdillin2
Dataset Creation	Wed Oct 16 20:44:09 2013
Charted by	Depth in Feet scaled 1:600

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

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

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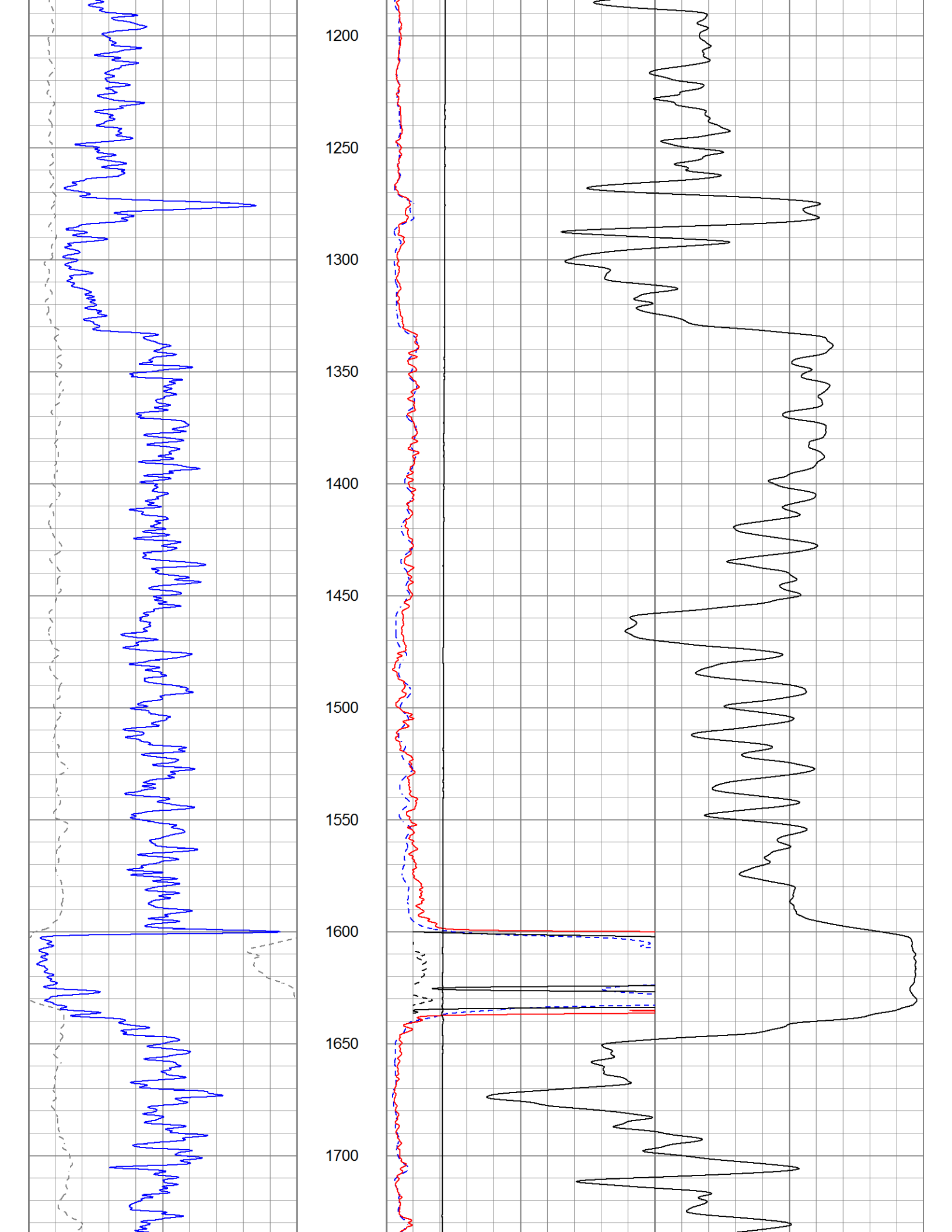
700
750
800
850
900
950
1000
1050
1100
1150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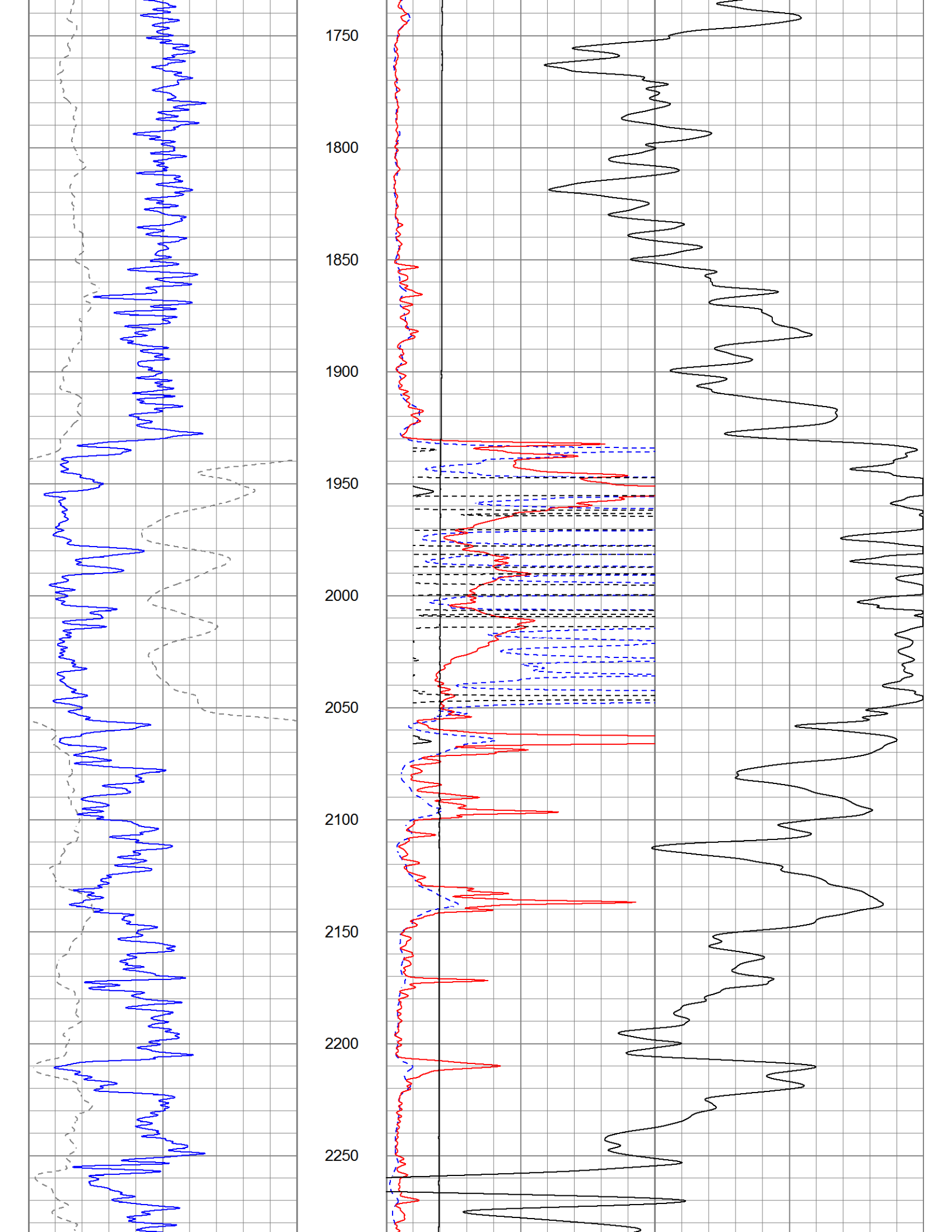
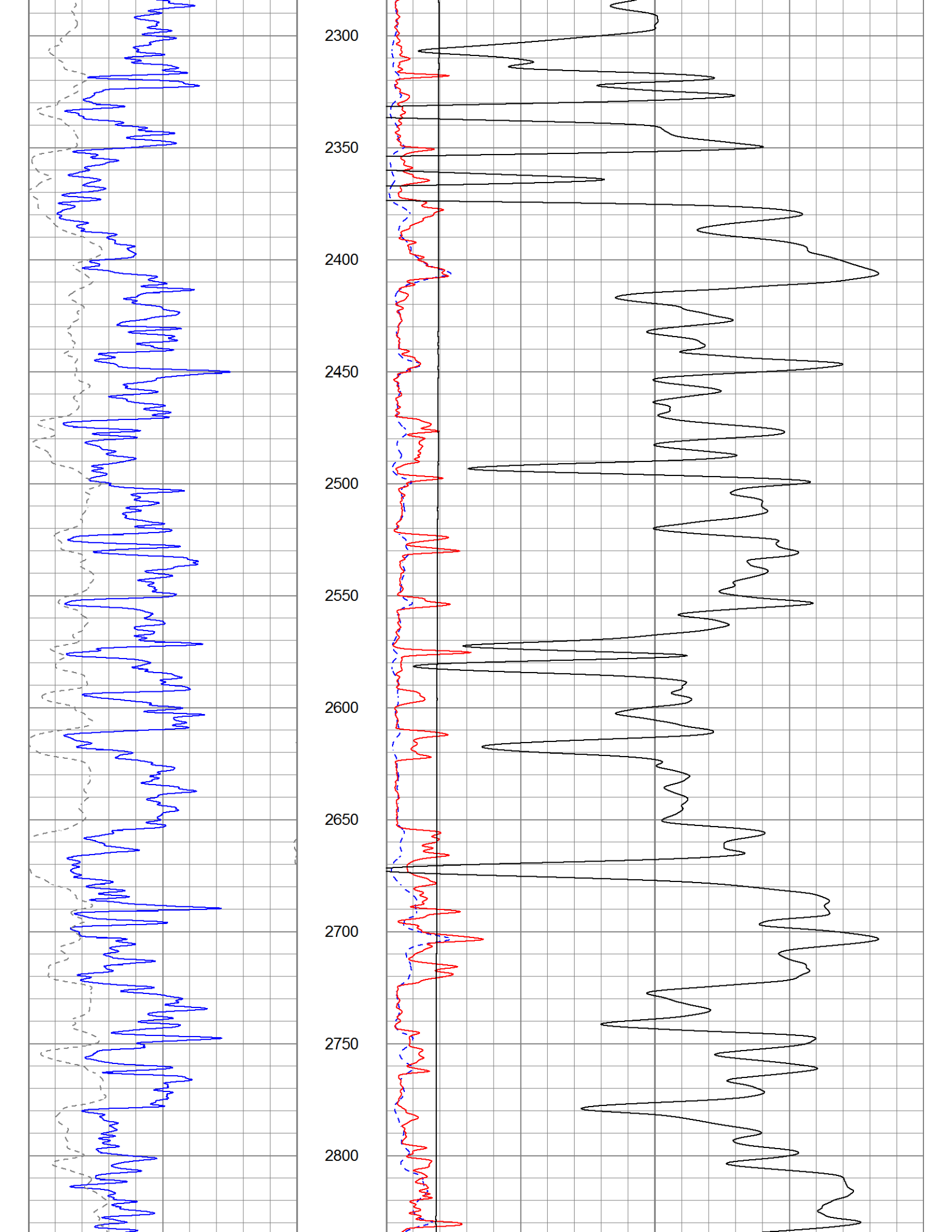
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700


1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250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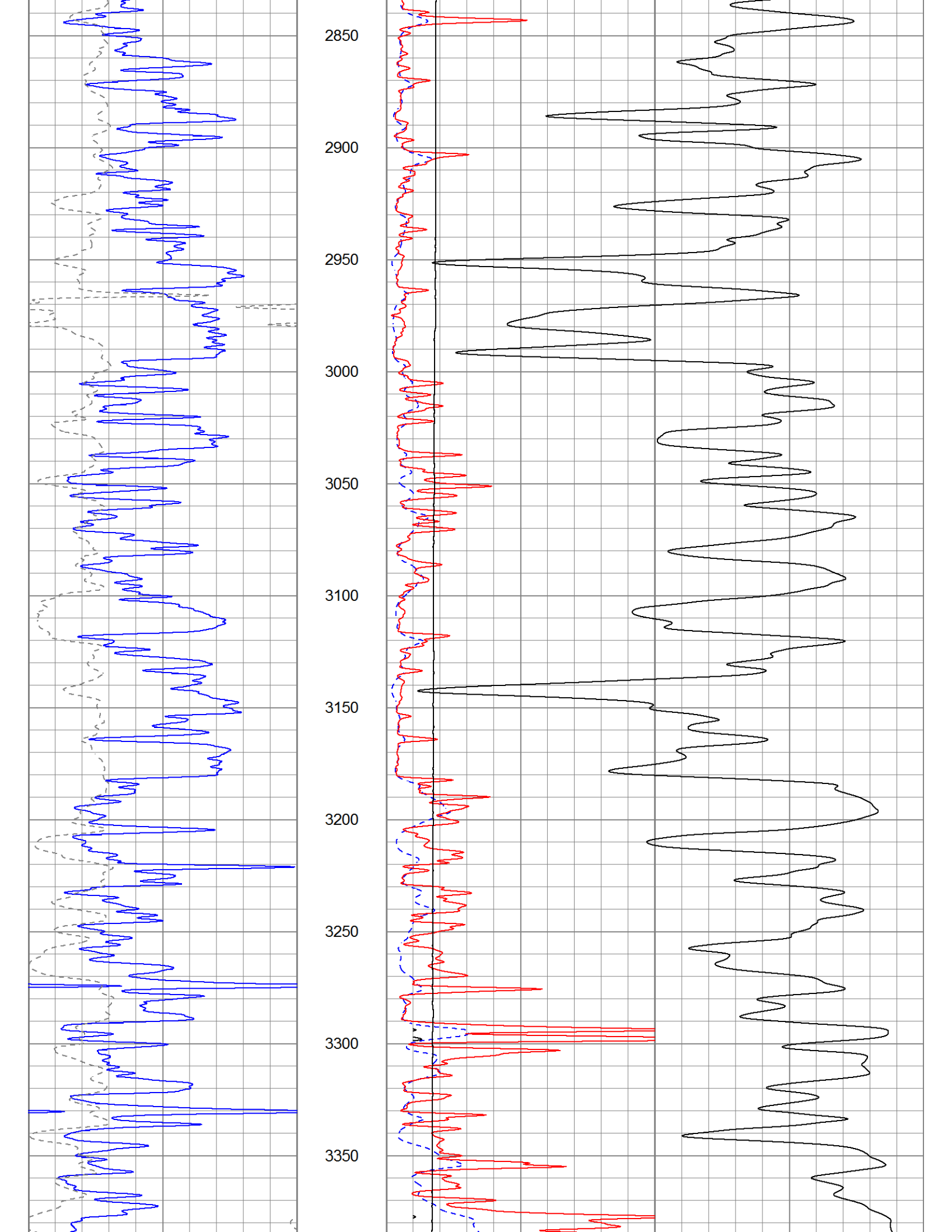
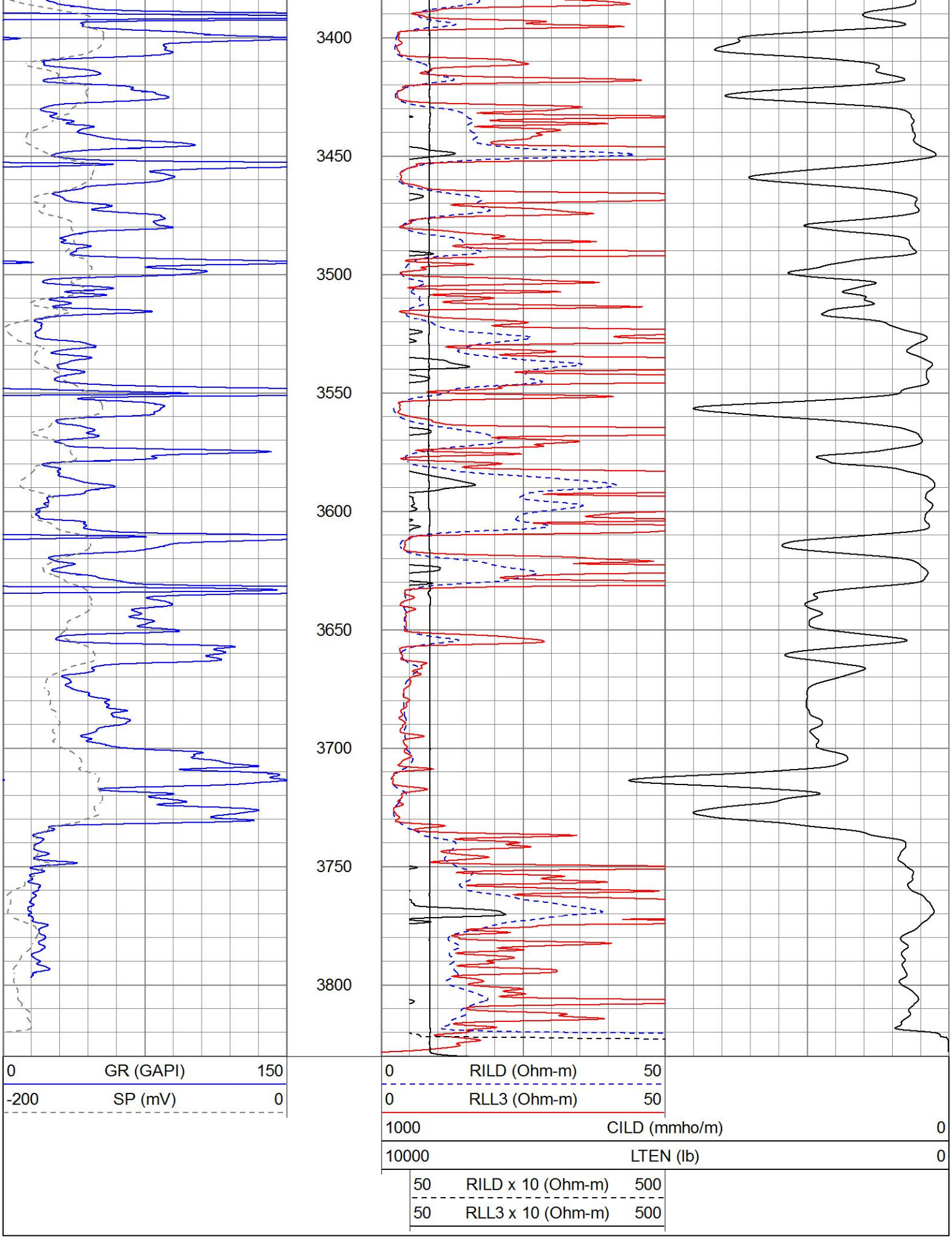
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800


2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350

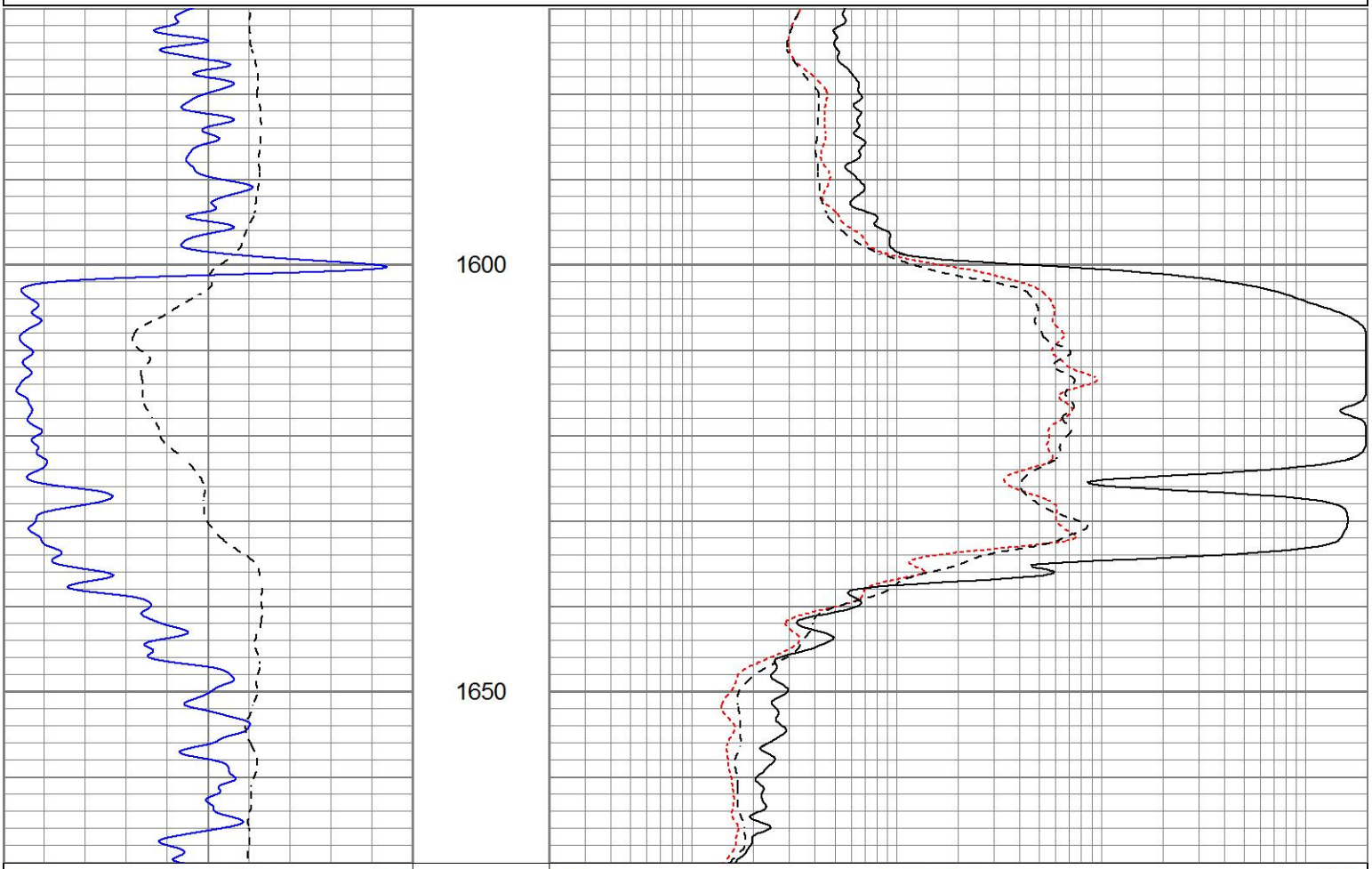

3400
3450
3500
3550
3600
3650
3700
3750
3800
0 GR (GAPI) 150
-200 SP (mV) 0
0 RILD (Ohm-m) 50
0 RLL3 (Ohm-m) 50
1000 CILD (mmho/m) 0
10000 LTEN (lb) 0
50 RILD x 10 (Ohm-m) 500
50 RLL3 x 10 (Ohm-m) 500

Main Pass

Database File	mehamel3aoh.db
Dataset Pathname	pass3.1
Presentation Format	kdil
Dataset Creation	Wed Oct 16 20:44:09 2013
Charted by	Depth in Feet scaled 1:240

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

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



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

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

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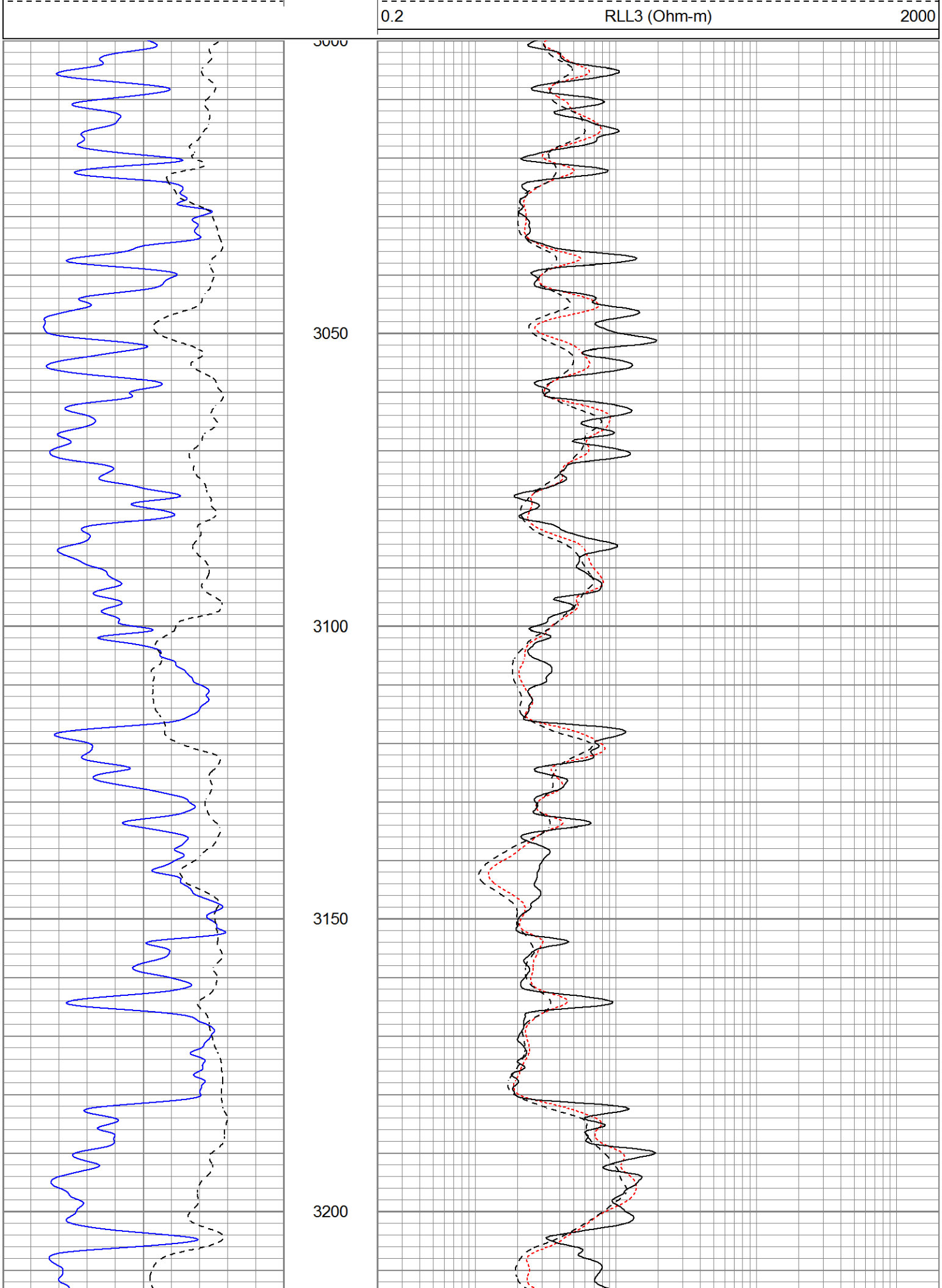
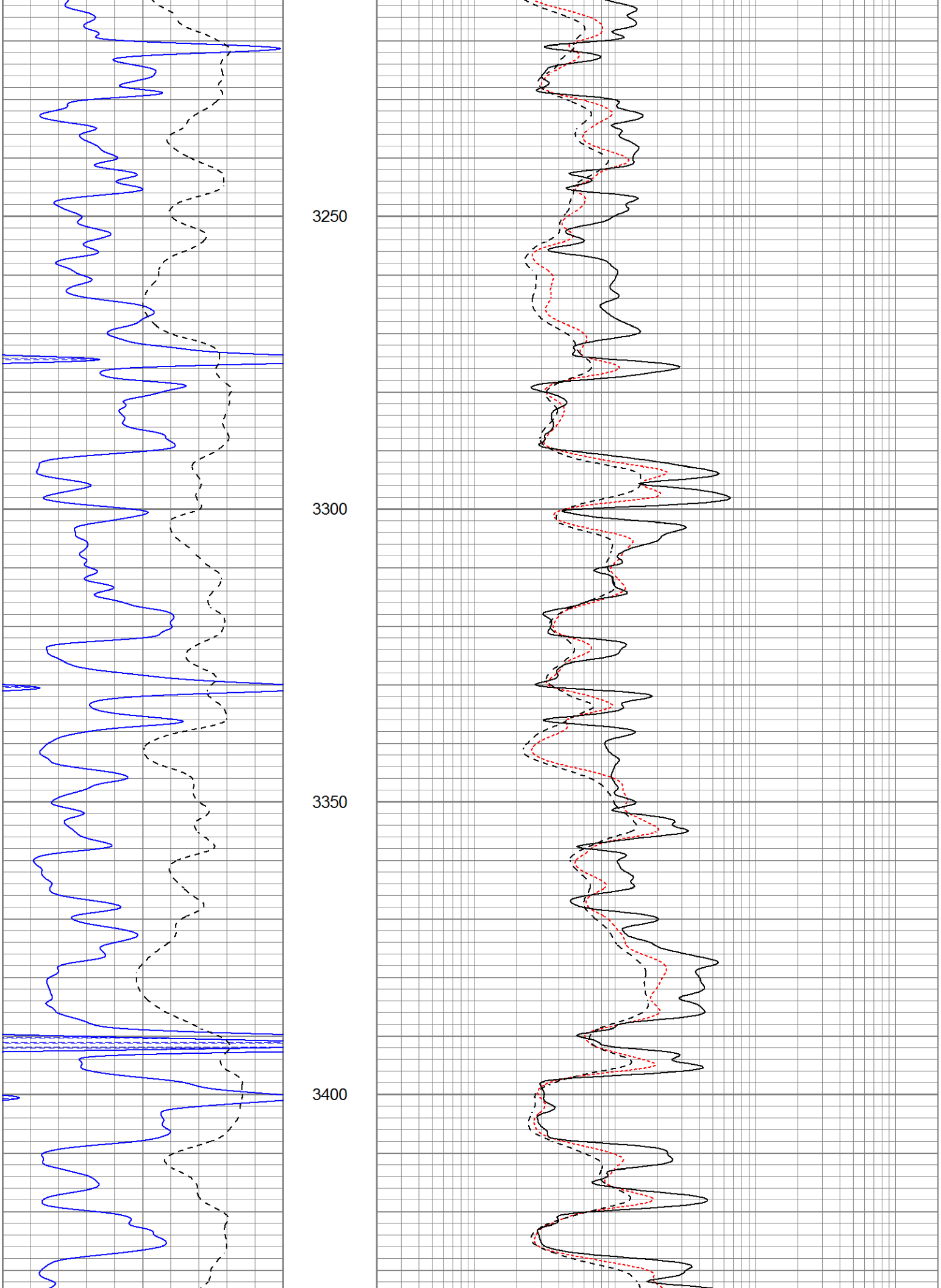
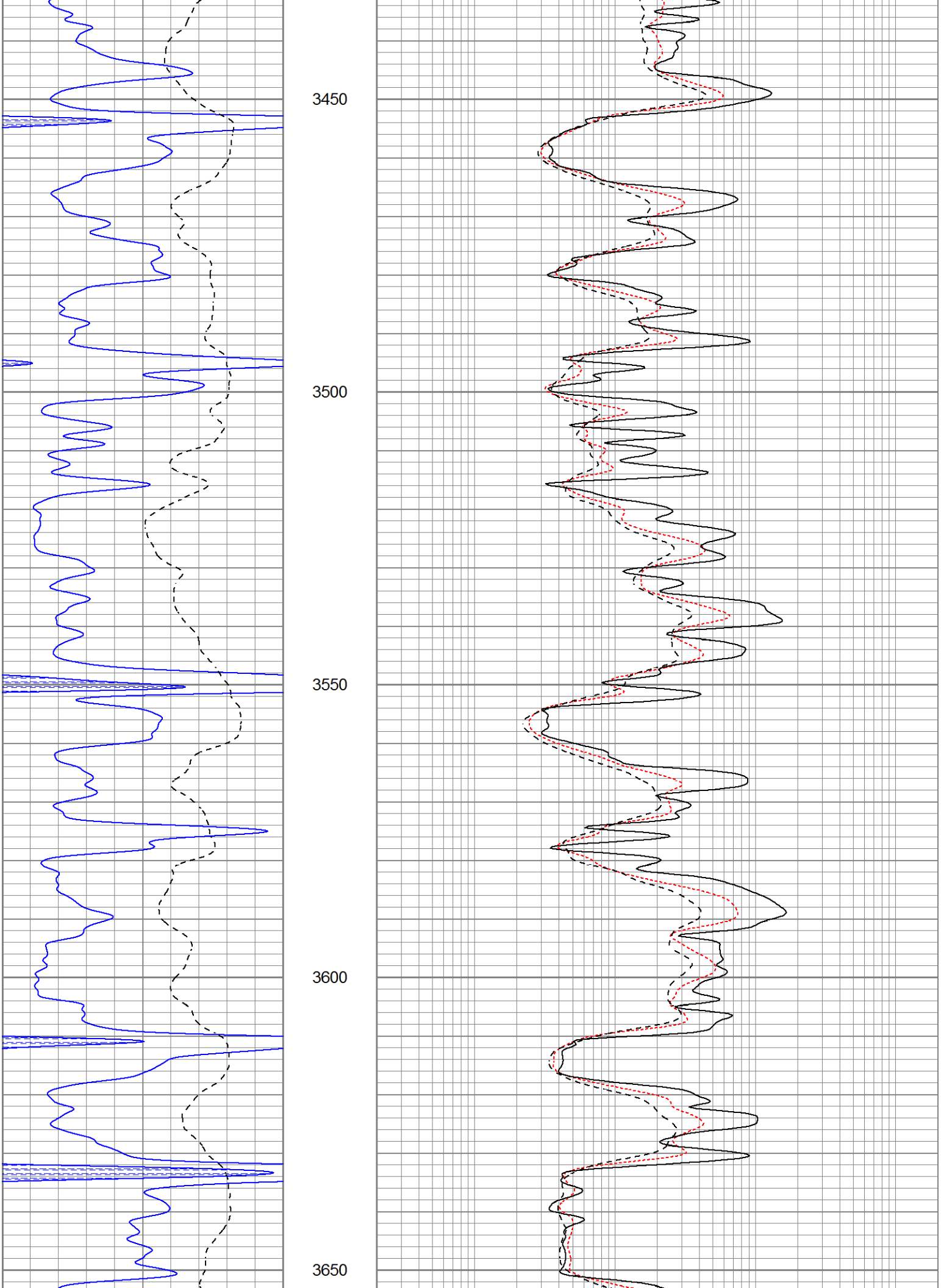
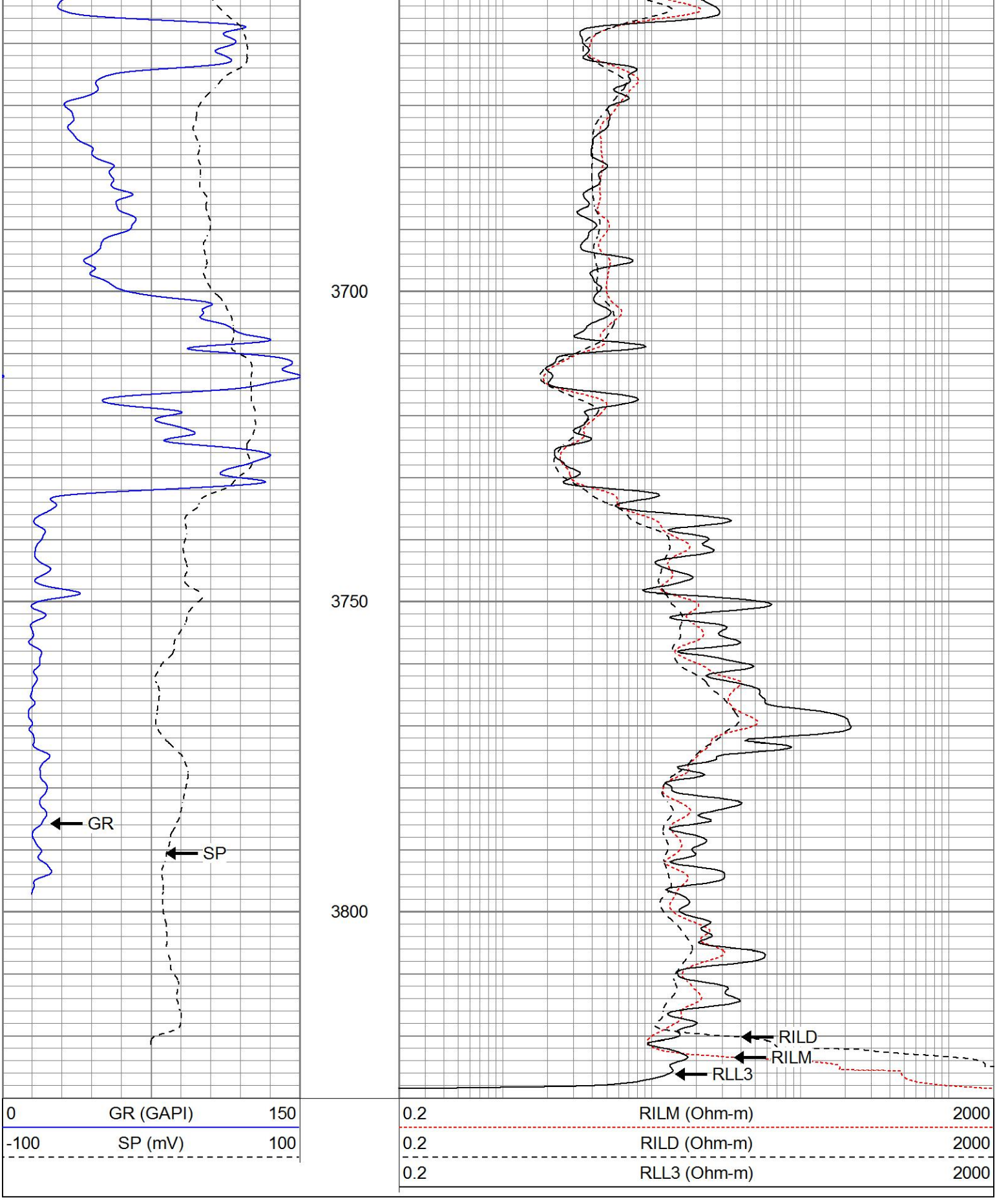
0	GR (GAPI)	150
-100	SP (mV)	100

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


0.2
RLL3 (Ohm-m)
2000
3050
3100
3150
3200


3250
3300
3350
3400


3450
3500
3550
3600
3650



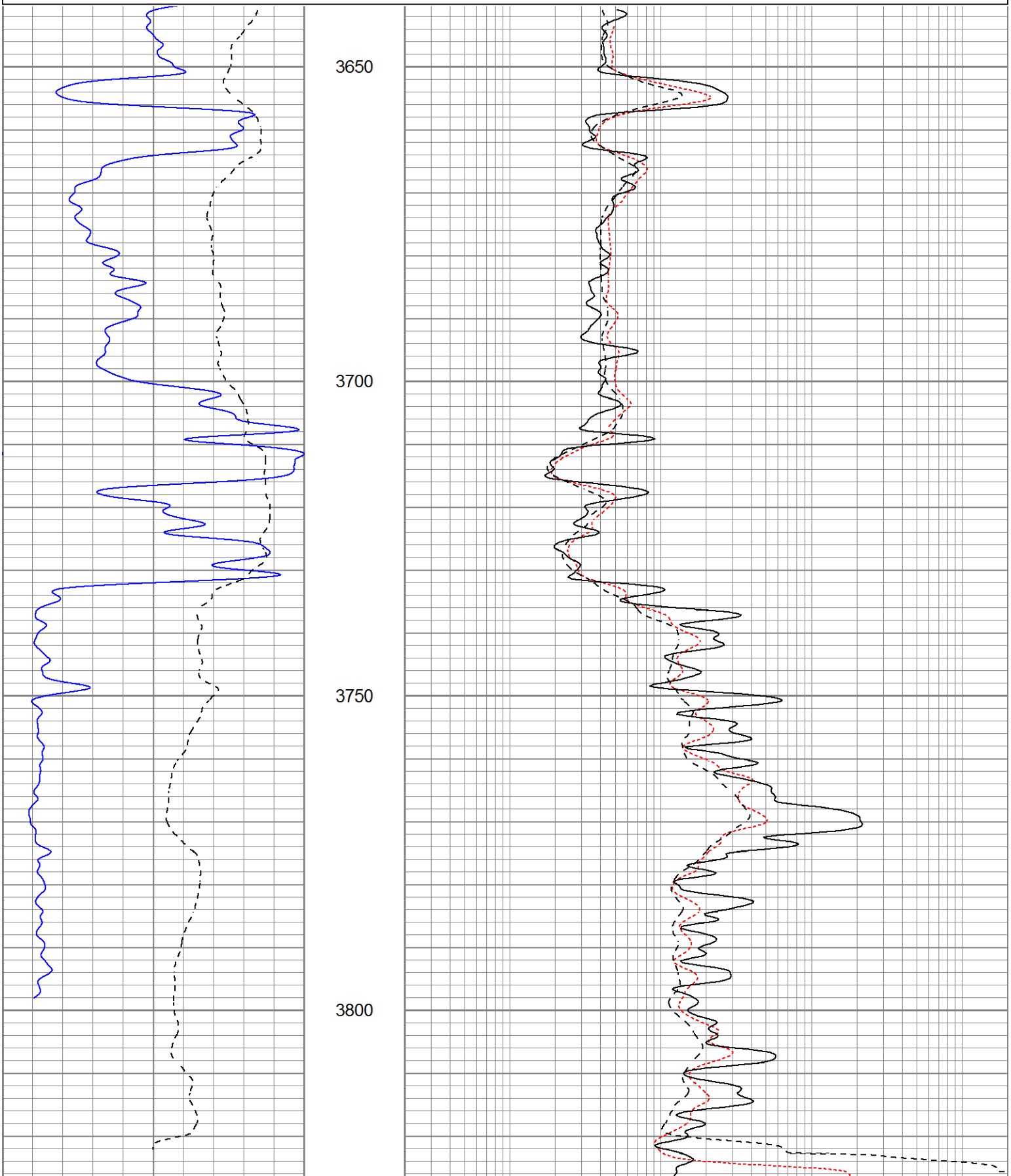
GEMINI WIRELINE

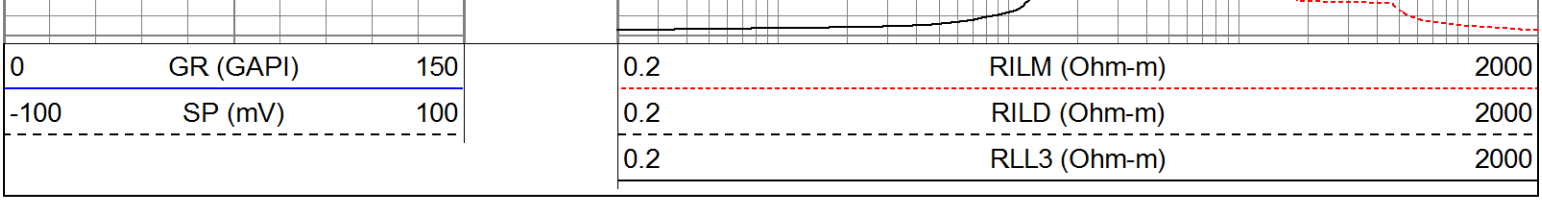
Repeat Pass

Database File	mehamel3aoh.db
Dataset Pathname	pass2.1
Presentation Format	kdil
Dataset Creation	Wed Oct 16 19:59:39 2013
Charted by	Depth in Feet scaled 1:240

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

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





Calibration Report

Database File mehamel3aoh.db
Dataset Pathname pass2.1
Dataset Creation Wed Oct 16 19:59:39 2013

Dual Induction Calibration Report

Serial-Model: 1842-ADM
Surface Cal Performed: Wed Oct 16 17:05:25 2013
Downhole Cal Performed: Wed Oct 16 17:05:29 2013
After Survey Verification Performed: Wed Oct 16 17:05:31 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.014	0.660	V	0.000	350.000	mmho/m	541.845	-7.742
Medium	0.003	0.761	V	0.000	400.000	mmho/m	527.924	-1.569
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.663	V	0.000	350.000	mmho/m	538.740	-6.964
Medium	0.003	0.761	V	0.000	550.000	mmho/m	726.060	-2.265

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.857	351.396	mmho/m	-0.737	351.280	mmho/m	0.999	0.118
Medium	0.187	400.090	mmho/m	0.077	399.987	mmho/m	1.000	-0.110
Shallow	2.543	0.024	V	500.000	2.000	Ohm-m	197.760	-4.200

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.857	351.396	mmho/m	0.999	0.118
Medium	0.000	0.000	mmho/m	0.187	400.090	mmho/m	1.000	-0.110
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: Mon Oct 14 17:07:01 2013
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	637.65	312.75	cps
Aluminum	2.650	g/cc	121.25	205.62	cps

Spine Angle = 75.82 Density/Spine Ratio = 0.526

	Size		Reading
Small Ring	8.30	in	5771.32
Large Ring	14.00	in	10165.20

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

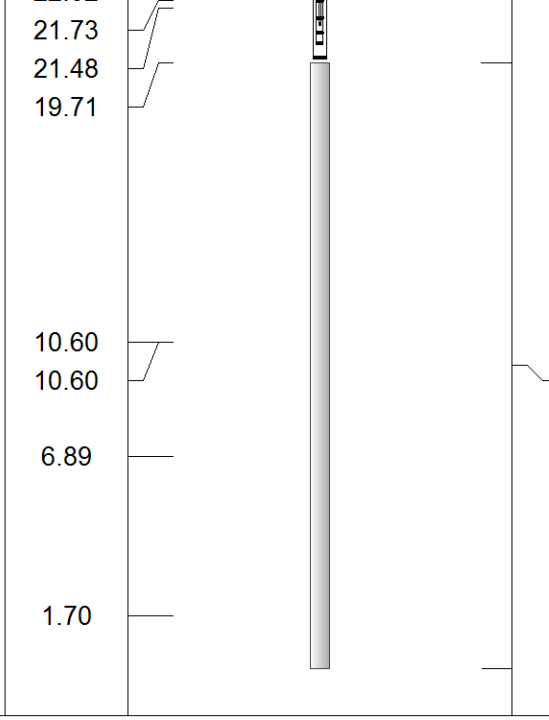
Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Mon Oct 14 17:07:10 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2300	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Mon Oct 14 17:07:15 2013	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			None	0.75	1.50	5.00
NEU	36.50		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	30.56		GR-OH (2001) 2001	3.56	3.25	40.00
			DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	22.02					



DCAL	21.73				
SSD	21.48				
HEADVOLT	19.71				
SP	10.60	DIL-ADM (1842) Dual Induction	19.71	4.00	300.00
CILD	10.60				
CILM	6.89				
RLL3	1.70				

Dataset:	mehamel3aoh.db: field/well/run1/pass2.1
Total length:	38.63 ft
Total weight:	631.00 lb
O.D.:	4.00 in