DUAL INDUCTION LOG

Company James P. Williams, Inc.
Well Roll Williams #1
Field Williams
County Rooks State Kansas

Location: API # : 15 163 24411

986' FNL & 911' FWL

SEC 9 TWP 10S RGE 18W

Other Services
ML
CDNL

Elevation
K.B. 2193'
D.F. 2192'
G.L. 2185'

Permanent Datum	Ground Level	Elevation	2185'
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Date	3/21/20		
Run Number	One		
Depth Driller	3850'		
Depth Logger	3848'		
Bottom Logged Interval	3846'		
Top Log Interval	210'		
Casing Driller	8 5/8"@ 221'		
Casing Logger	221'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical	Chlorides 1000 PPM	
Density / Viscosity	9.0/54		
pH / Fluid Loss	10.0/7.2		
Source of Sample	CALCULATED		
Rm @ Meas. Temp	1.3@70degf		
Rmf @ Meas. Temp	1.0@70degf		
Rmc @ Meas. Temp	1.7@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	0.95@96degf		
Time Circulation Stopped	1:30 a.m		
Time Logger on Bottom	3:45 a.m		
Maximum Recorded Temperature	96degf		
Equipment Number	T-605		
Location	Hays, KS.		
Recorded By	Casey Patterson		
Witnessed By	Mr. Jason T Alm		

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Comments

South of Plainville,KS to AA RD, Then west on AA RD. to 15 Rd.,
Then on 15 RD. North 3/4 mile
Then East into Location

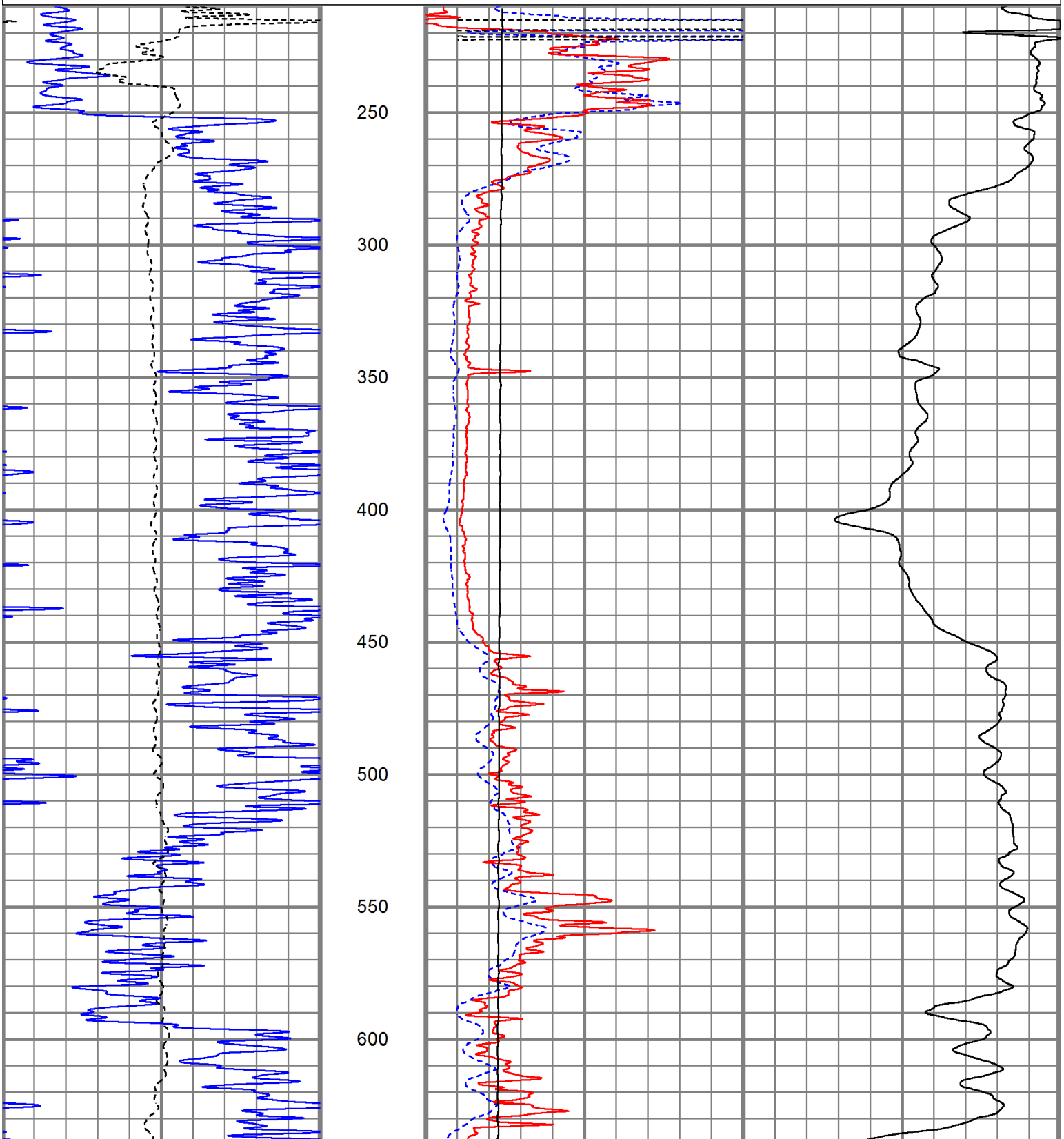
Thanks for using Gemini Wireline LLC
785-625-1182

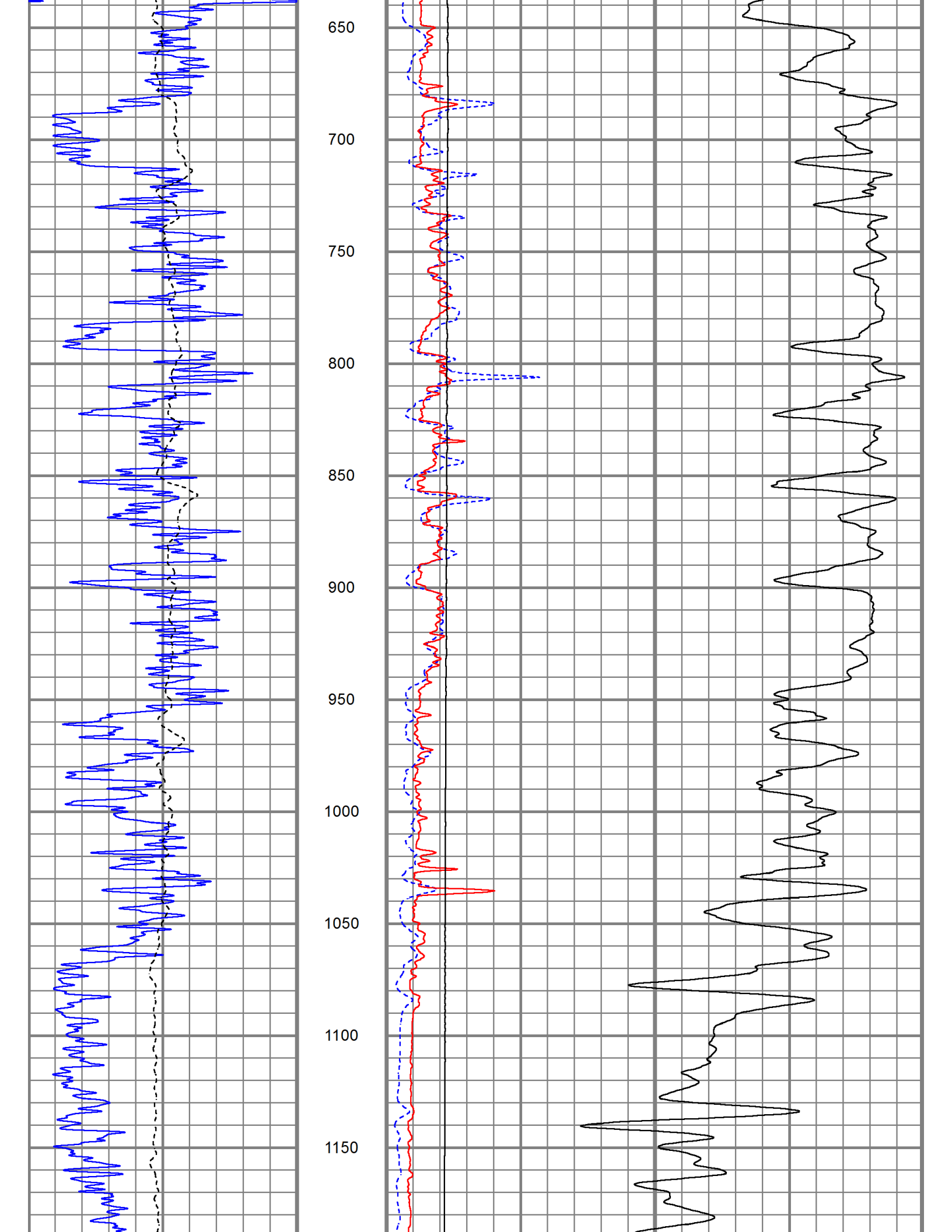
MAIN PASS

Database File	jpwrollwilliams#1oh.db
Dataset Pathname	pass2
Presentation Format	kdillinn
Dataset Creation	Sat Mar 21 04:02:32 2020
Charted by	Depth in Feet scaled 1:600

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

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

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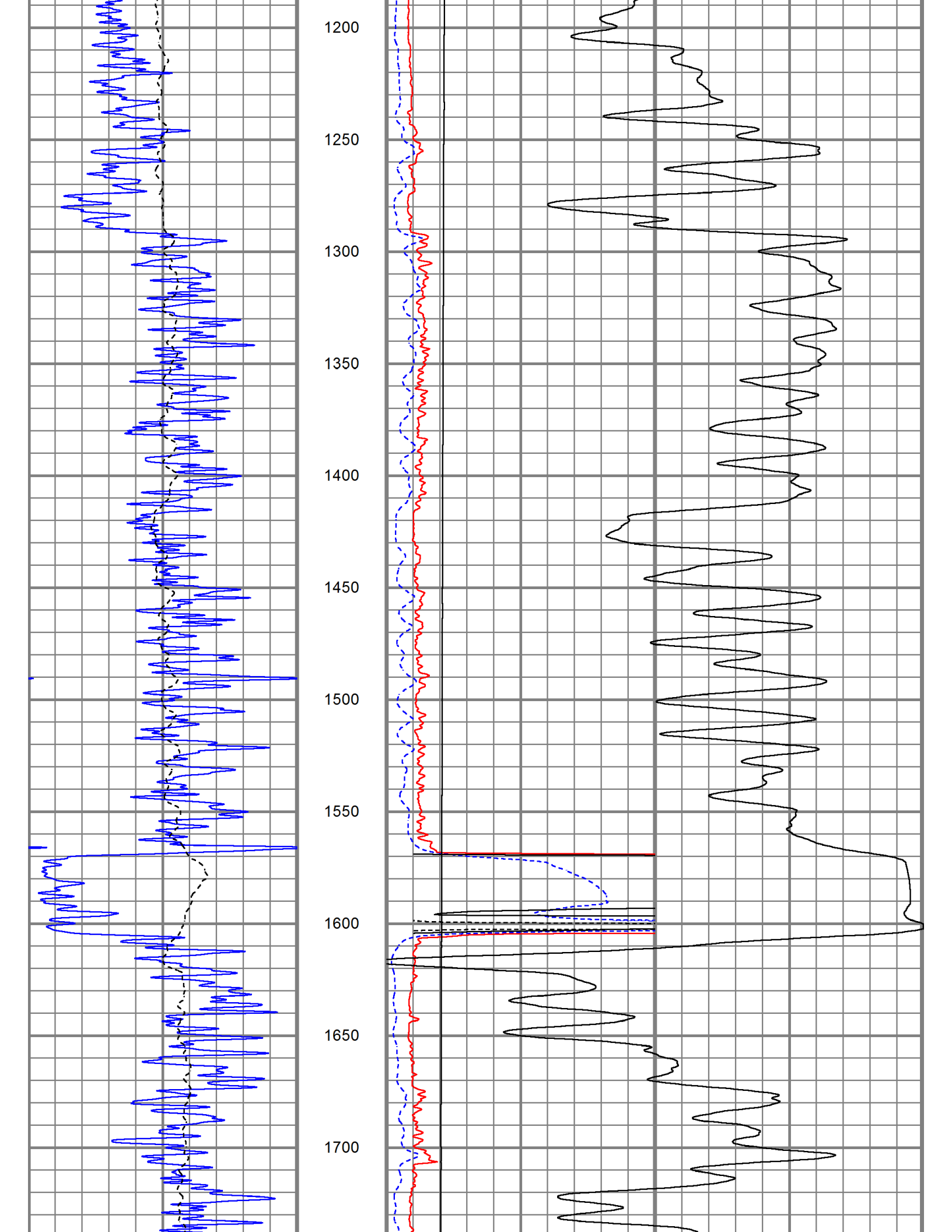
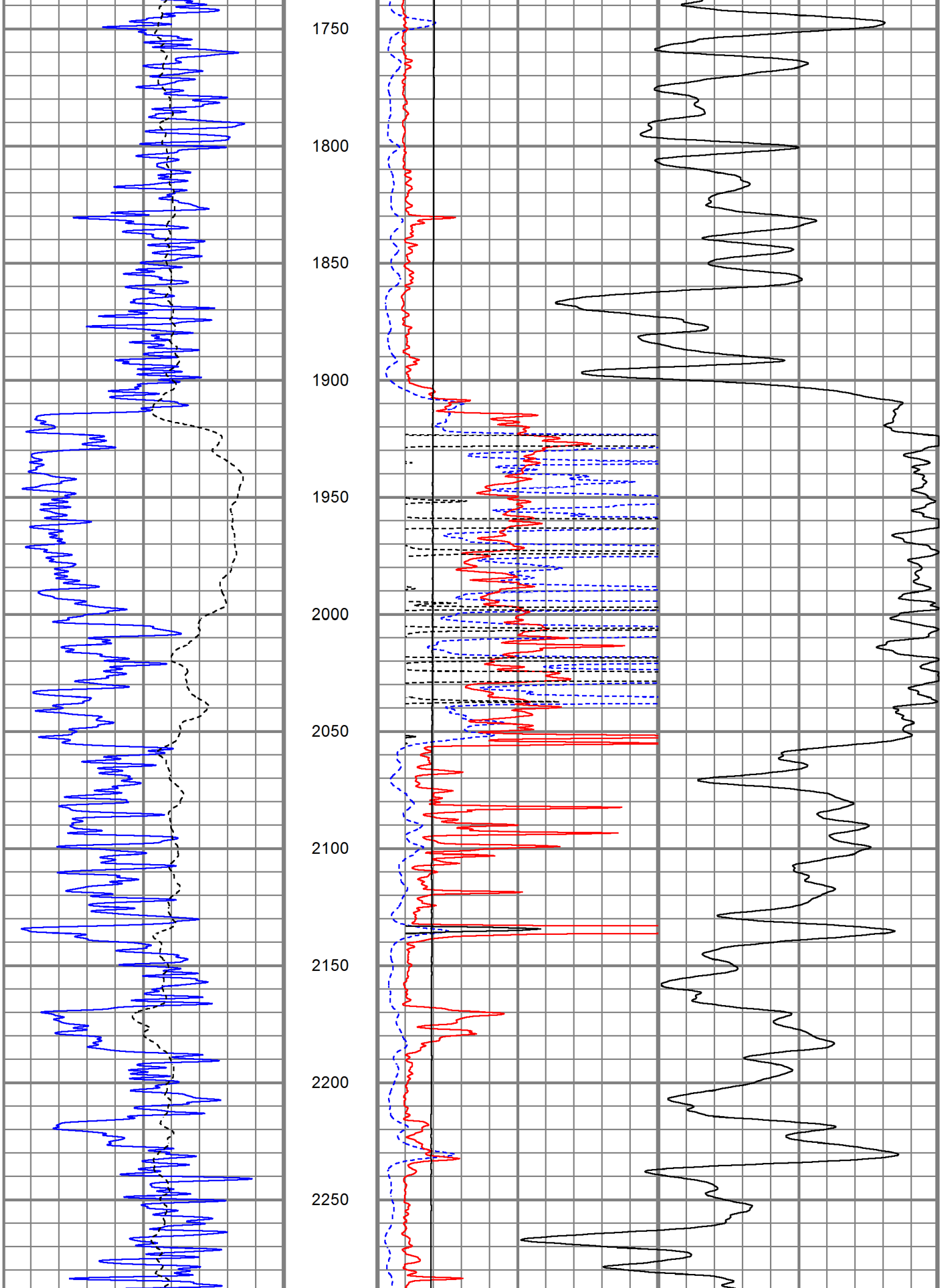
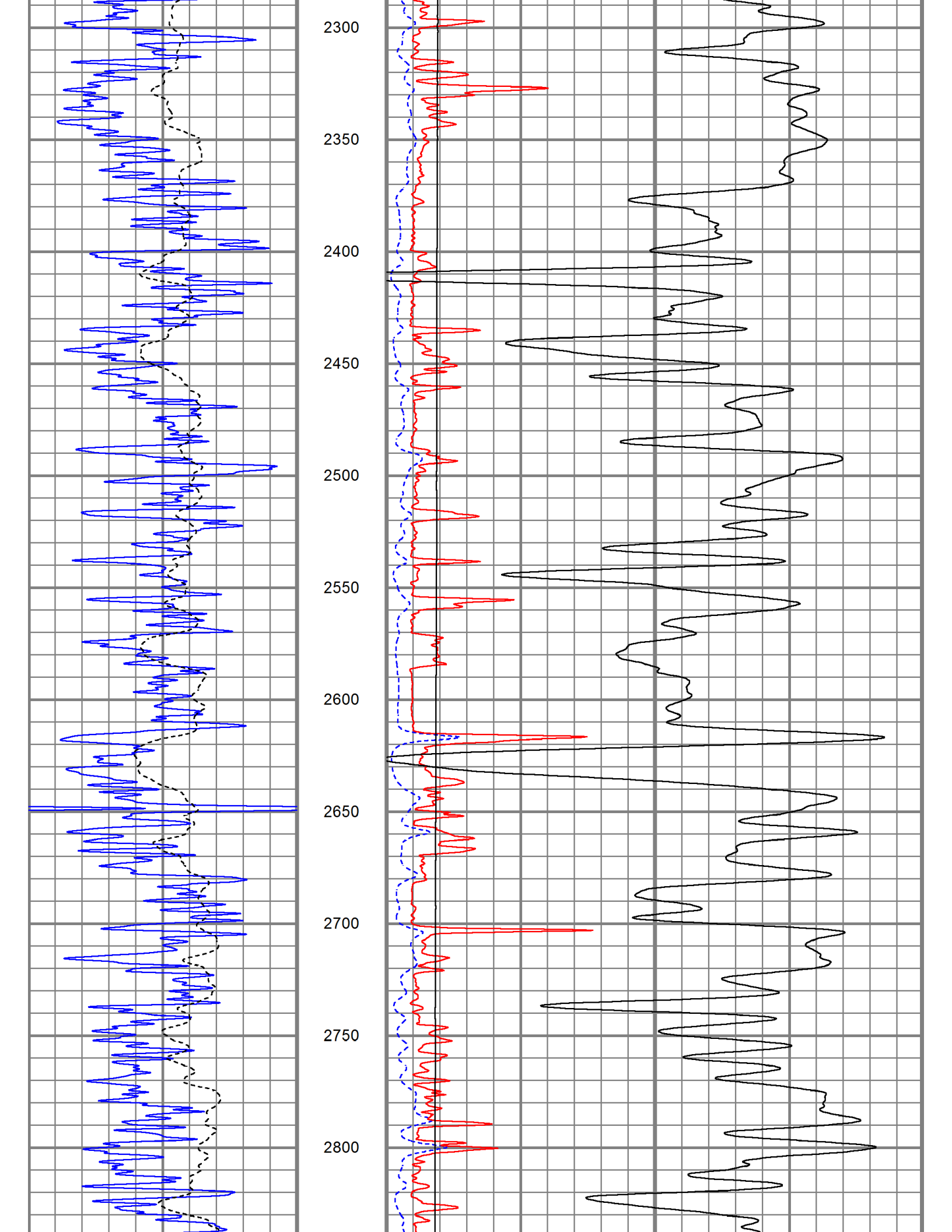
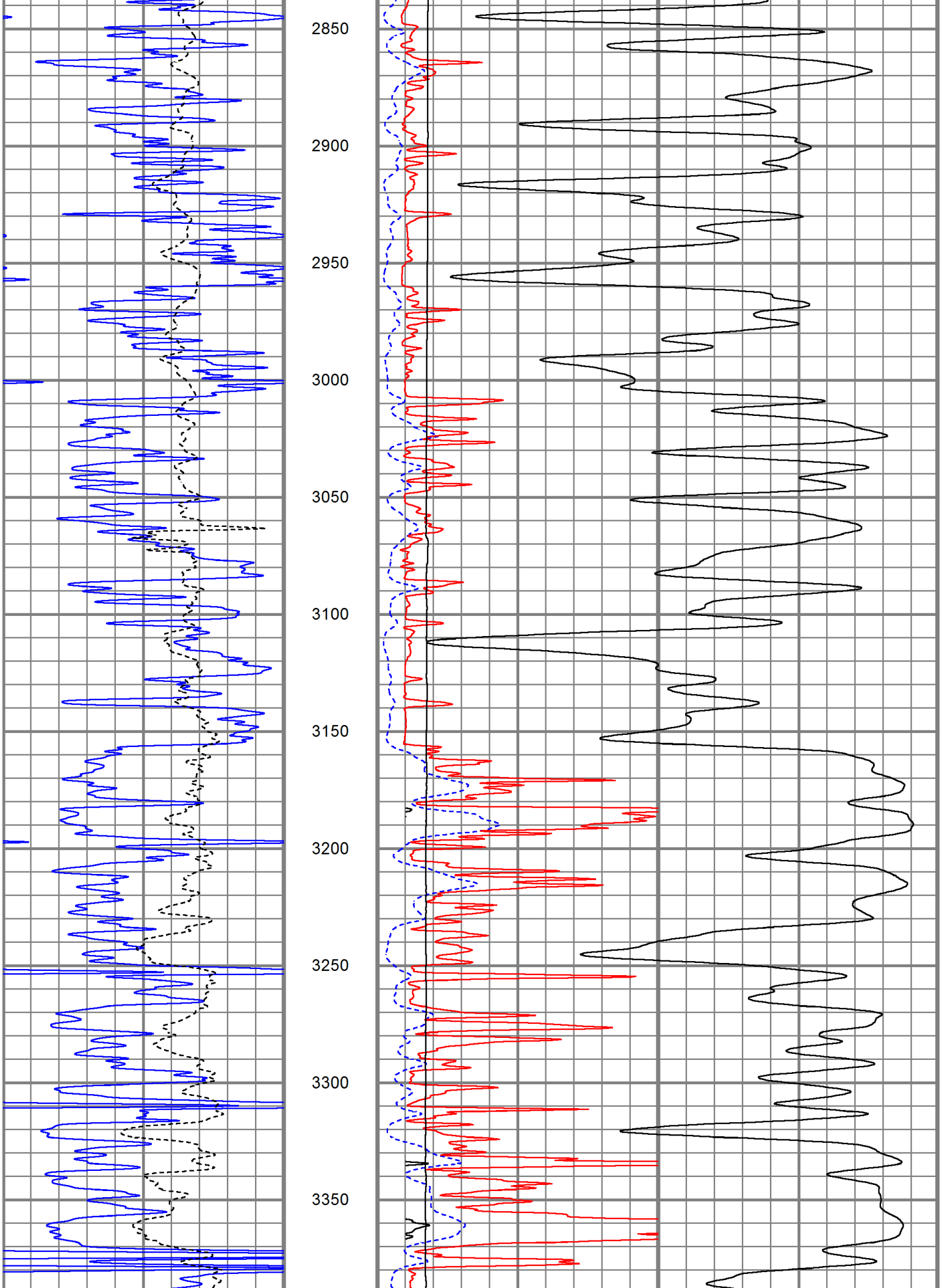
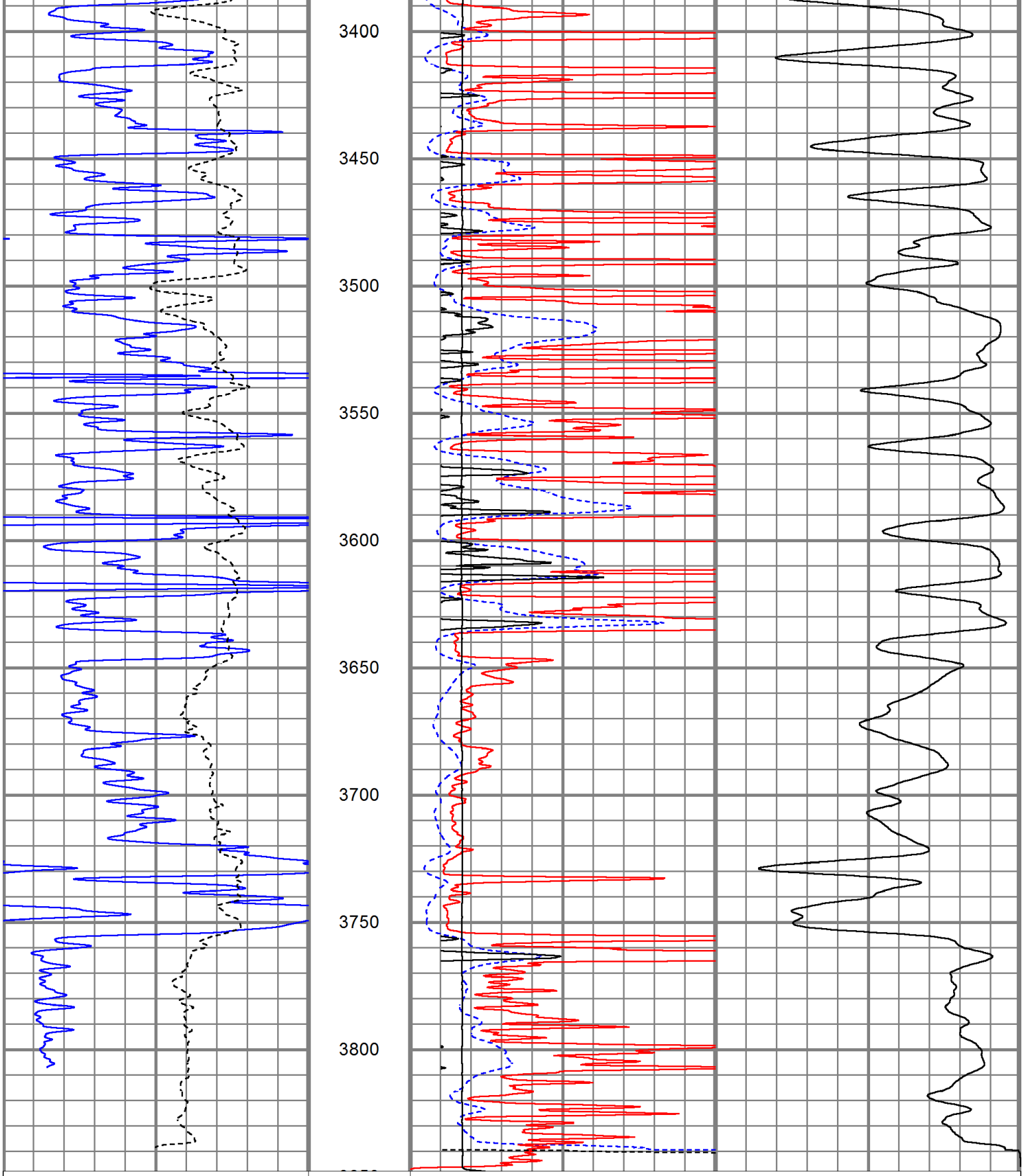
700
750
800
850
900
950
1000
1050
1100
1150


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

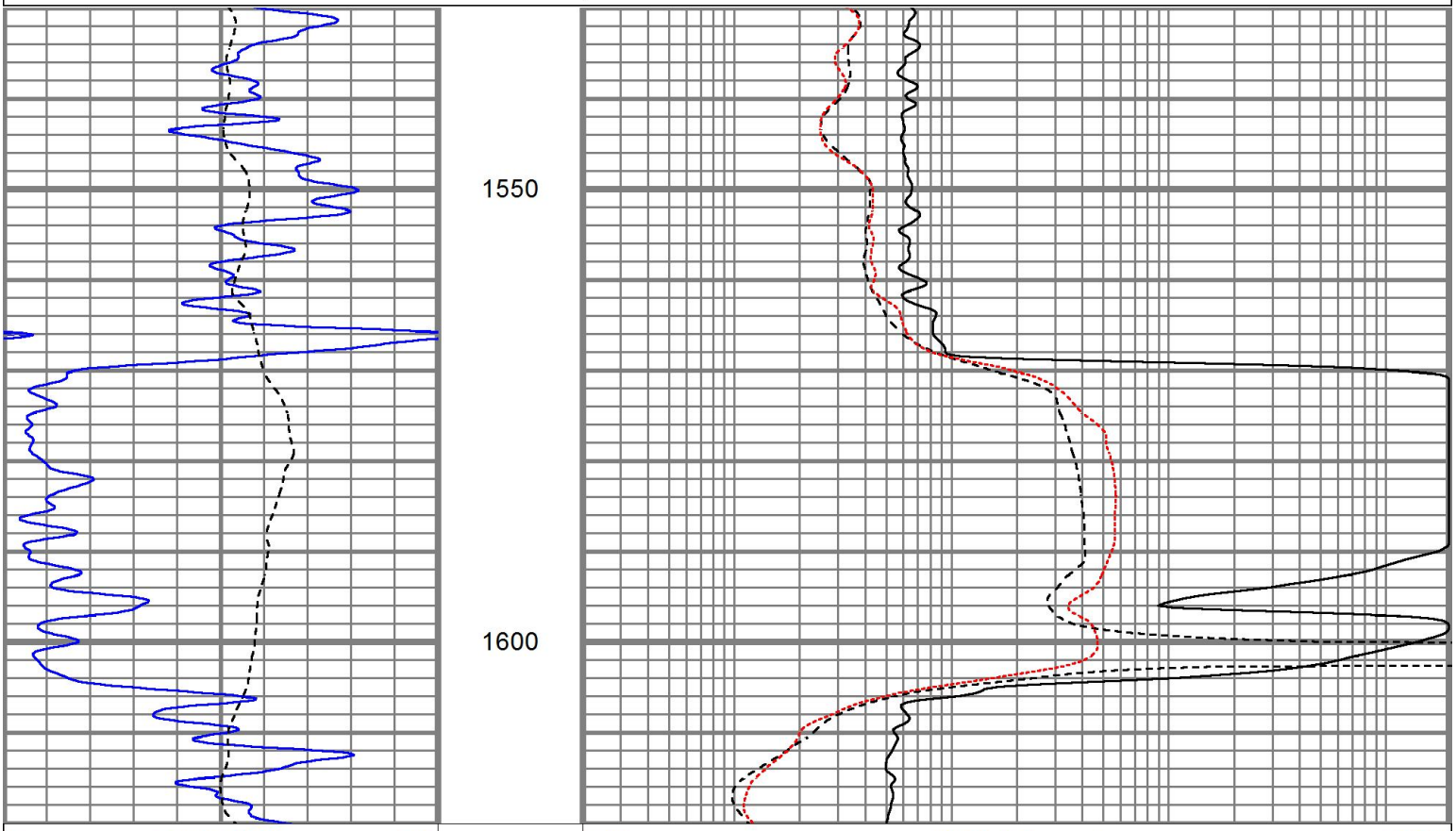

3400
3450
3500
3550
3600
3650
3700
3750
3800
0 GR (GAPI) 150
-100 SP (mV) 100
1000 CILD (mmho/m) 0
10000 LTEN (lb) 0
0 RILD (Ohm-m) 50
0 RLL3 (Ohm-m) 50
50 RILD x 10 (Ohm-m) 500
50 RLL3 x 10 (Ohm-m) 500

MAIN PASS

Database File	jpwrollwilliams#1oh.db
Dataset Pathname	pass2
Presentation Format	kdil
Dataset Creation	Sat Mar 21 04:02:32 2020
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

MAIN PASS

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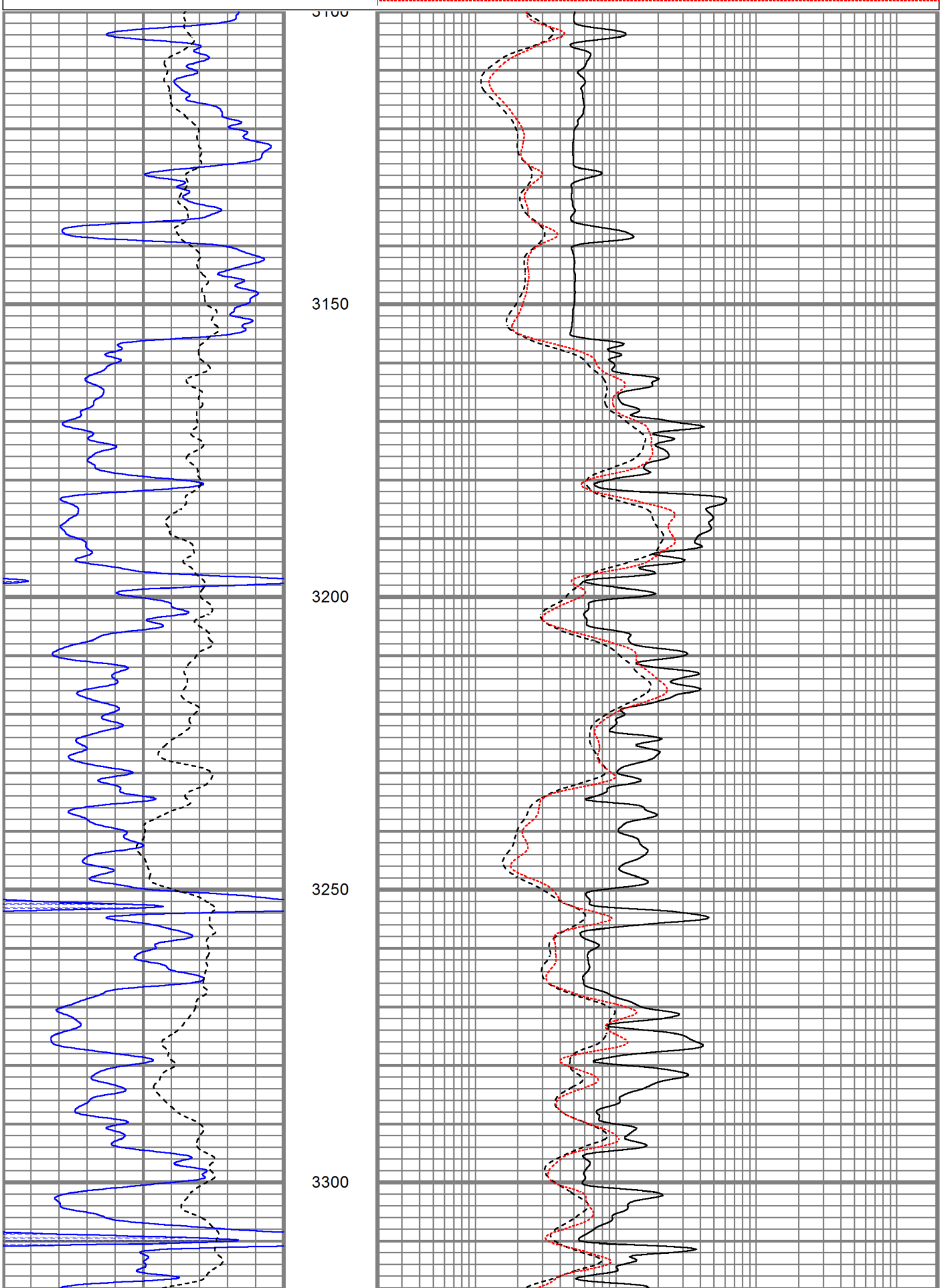
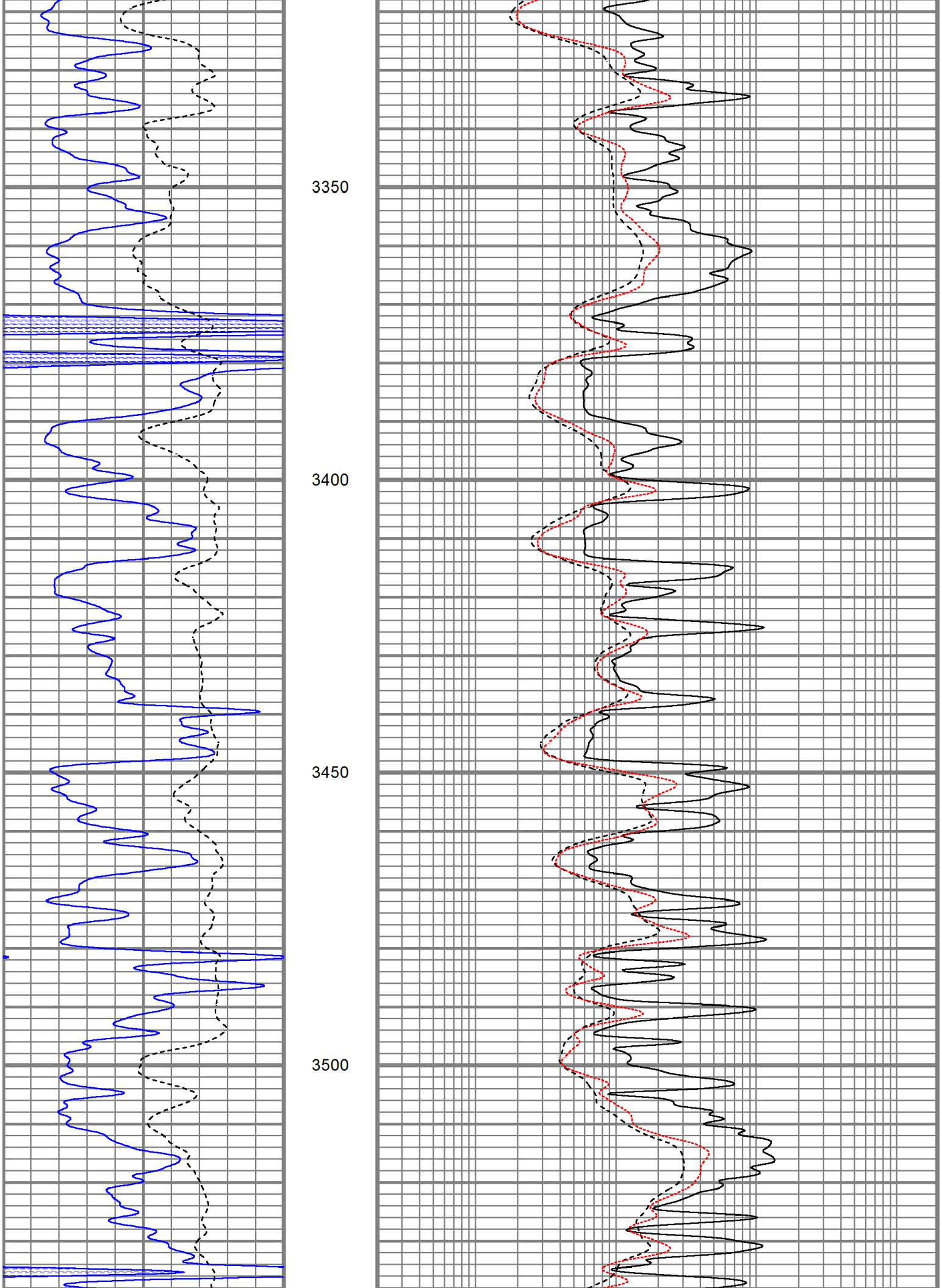
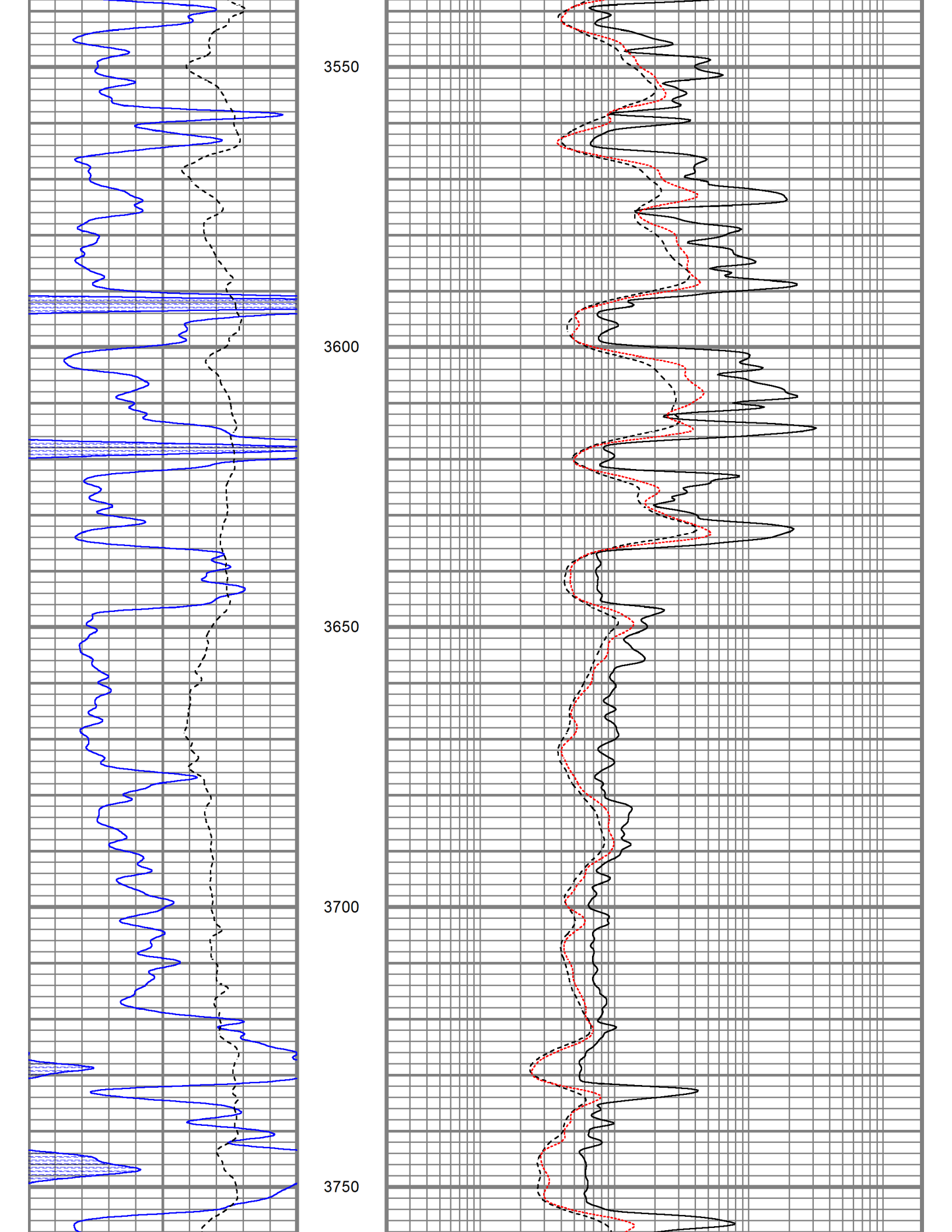
Dataset Creation	Sat Mar 21 04:02:32 2020
Charted by	Depth in Feet scaled 1:240

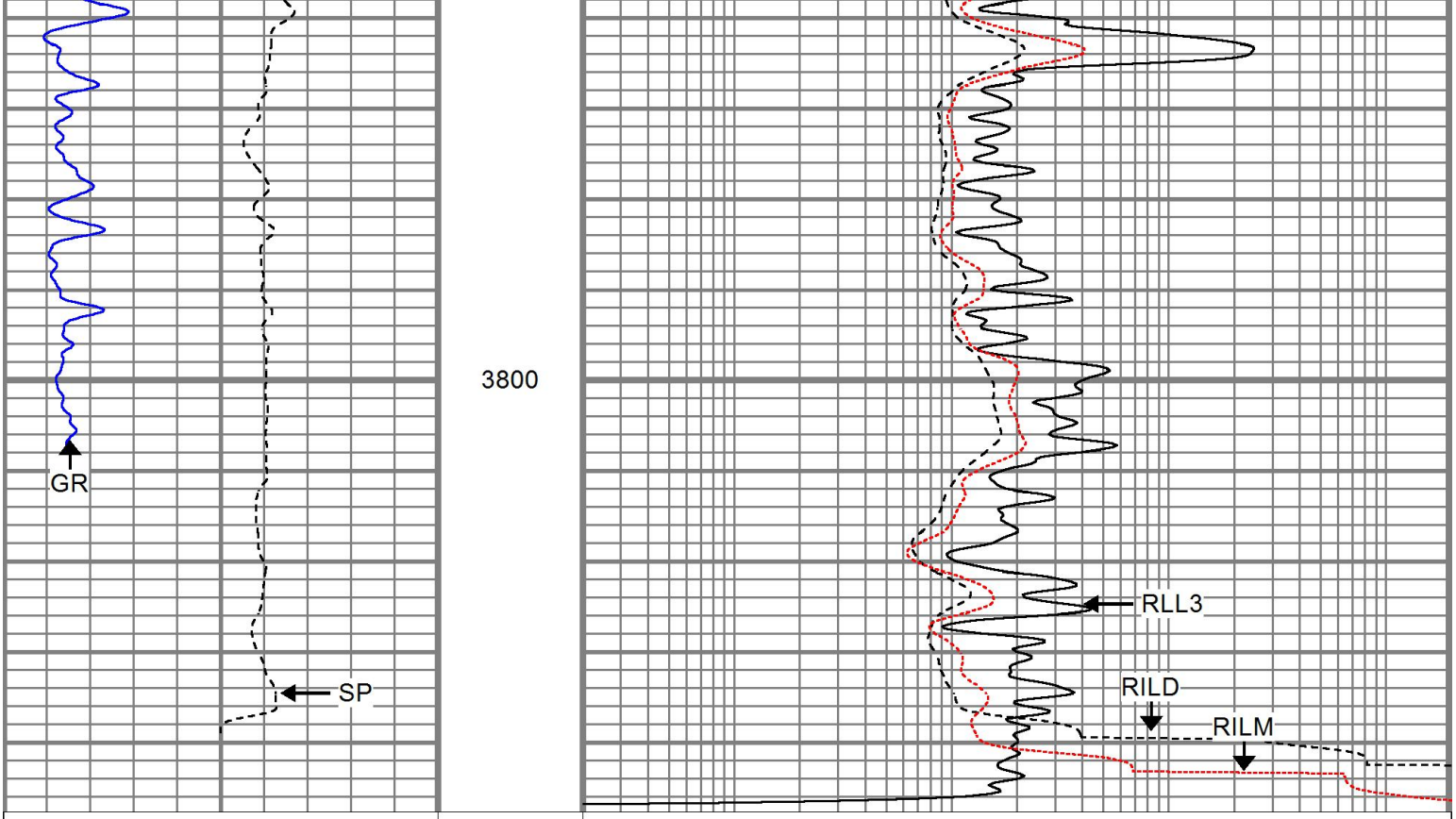
0	GR (GAPI)	150
-100	SP (mV)	100

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


3150
3200
3250
3300


3350
3400
3450
3500


3550
3600
3650
3700
3750



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

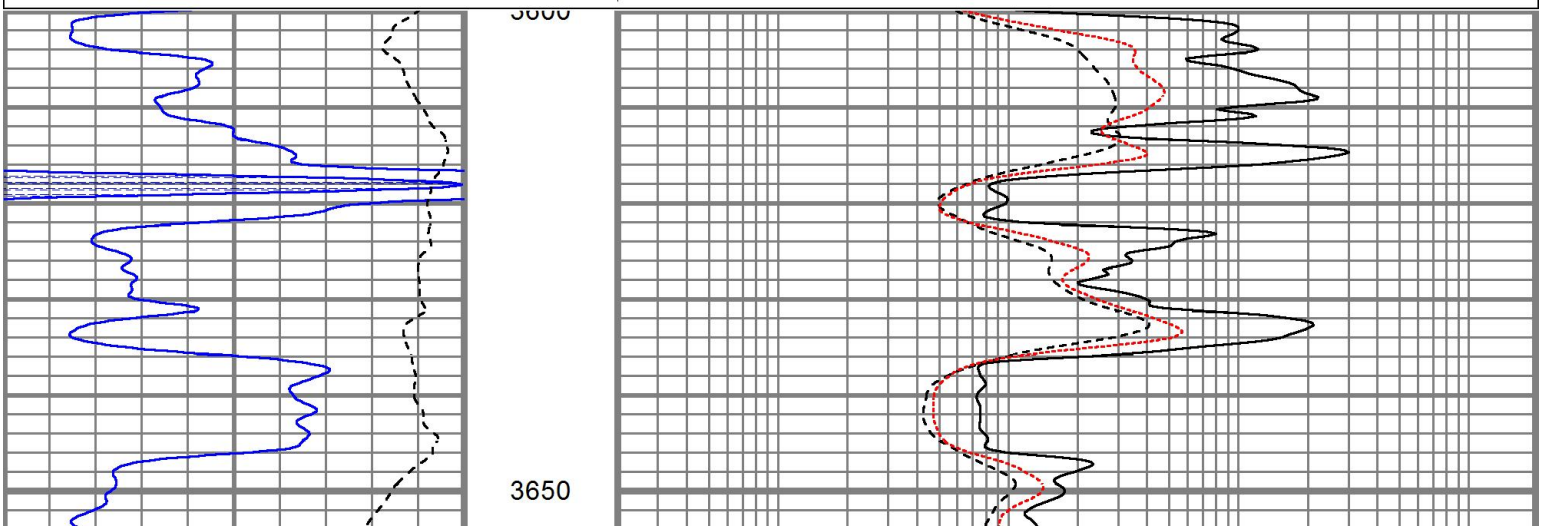
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

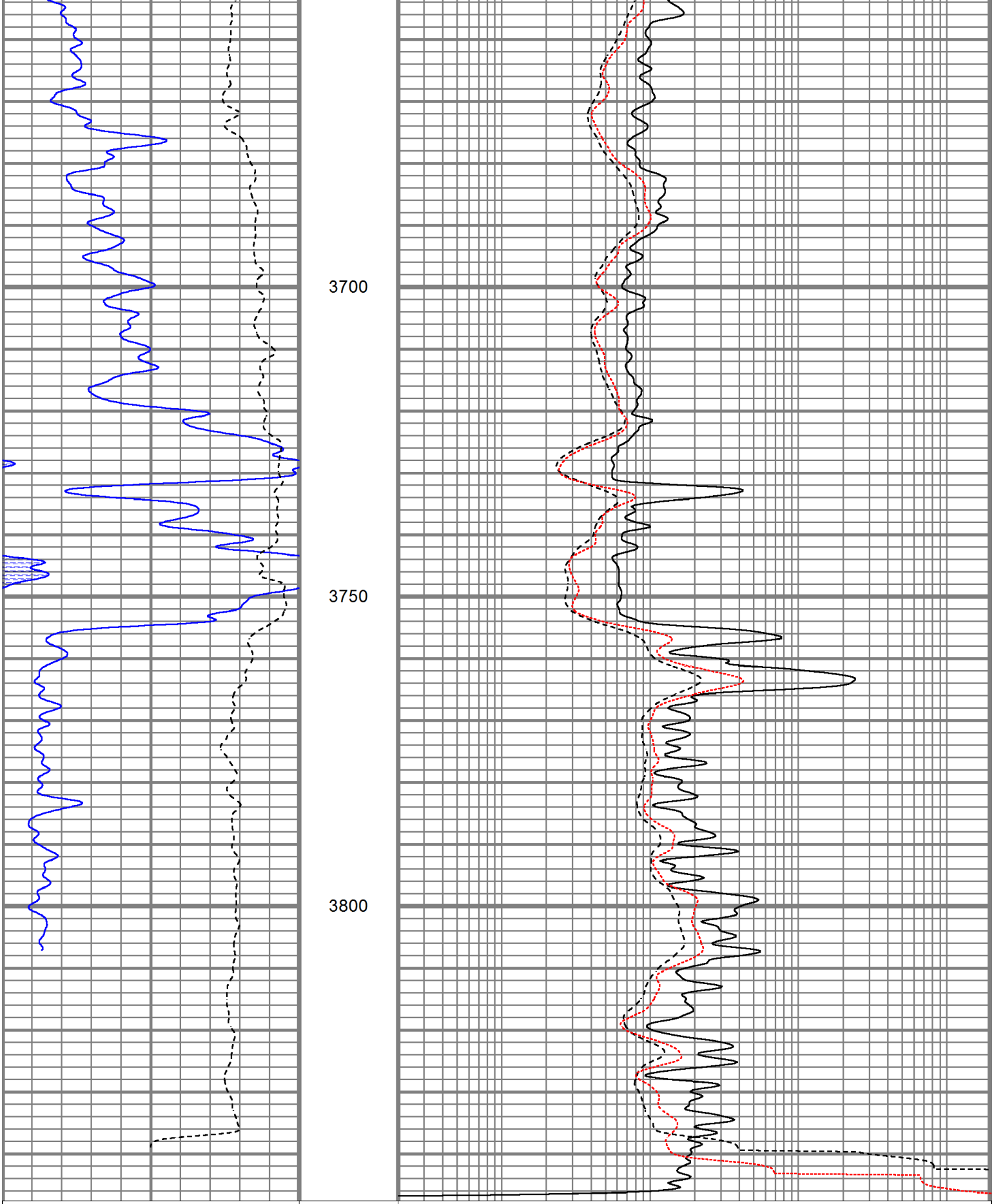
REPEAT SECTION

Database File	jpwrollwilliams#1oh.db
Dataset Pathname	pass1
Presentation Format	kdil
Dataset Creation	Sat Mar 21 03:48:46 2020
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	jpwrollwilliams#1oh.db
Dataset Pathname	pass2
Dataset Creation	Sat Mar 21 04:02:32 2020

Dual Induction Calibration Report

Serial-Model:	1989-ADM
Surface Cal Performed:	Tue Feb 04 16:04:10 2020
Downhole Cal Performed:	Wed Jun 06 19:34:10 2018
After Survey Verification Performed:	Wed Jun 06 19:34:10 2018

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.012	0.665	V	0.000	350.000	mmho/m	516.748	6.134
Medium	-0.013	0.752	V	0.000	400.000	mmho/m	522.482	6.987
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.011	0.668	V	0.000	350.000	mmho/m	515.730	5.704
Medium	-0.015	0.752	V	0.000	550.000	mmho/m	716.653	10.787

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.000	mmho/m	0.419	351.110	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-0.877	400.105	mmho/m	1.000	0.000
Shallow	2.502	0.040	V	500.000	2.000	Ohm-m	190.323	-0.126

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000
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:	WithOutMC	
Tool Model:	WOMC	
Performed:	(Not Performed)	

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			

Gain:	1.00
Offset:	0.00
Delta Spacing	1

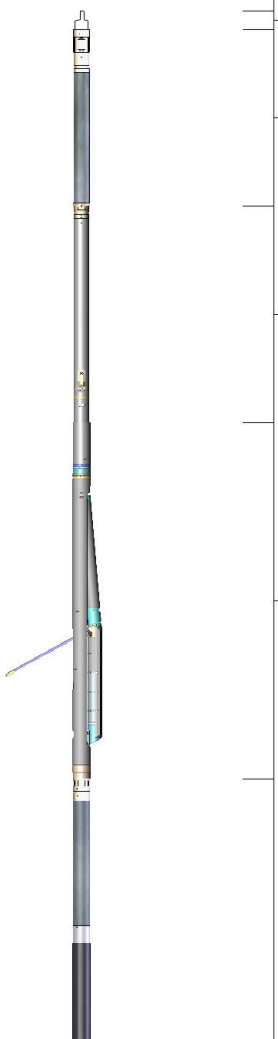
Inclinometer Calibration Report

Performed: Thu Oct 25 16:29:34 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:	WithOutMC	
Tool Model:	WOMC	
Performed:	Wed Dec 06 22:30:58 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STD	0.50	1.69	1.00
GR	38.31					
ACCY	37.15		ADT-WOMC (WithOutMC) Telemetry Without Mud Cell	4.58	3.50	120.00
ACCX	37.15					
SSTAT	36.73					
PSTAT	35.90					
ASTAT	35.90					
GRD	35.06		NEU-ADMY5139 (AD5139) Admyer NEU DIGITAL	5.65	3.50	50.00
TEMP	35.06					
NEU	31.00					
LStat	22.54					
LS8	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS7	21.88					
LS6	21.88					
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					
LSD	21.86					
SSV	21.67					
SS8	21.67					

SS7	21.67				
SS6	21.67				
SS5	21.67				
SS4	21.67				
SS3	21.67				
SS2	21.67				
SS1	21.67				
DCAL	21.61				
SSD	21.27				
SP	10.60				
CILD	10.60				
CILM	6.89				
RLL3	1.70				
TR_Mon	0.00				
			DIL-ADM (1989) Dual Induction	19.71	4.00	300.00

Dataset:	jpwrollwilliams#1oh.db: field/well/run1/pass2
Total length:	39.73 ft
Total weight:	711.00 lb
O.D.:	4.00 in