



**DUAL
INDUCTION
LOG**

Company Palomino Petroleum
 Well McJunkin #1
 Field Wildcat
 County Ness
 State Kansas

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 Well McJunkin #1
 Field Wildcat
 County Ness
 State Kansas

Location: 1780' FNL & 2553' FEL
 API #: 15 135 26019
 SEC 15 TWP 20S RGE 22W
 Ground Level Elevation 2237'
 Log Measured From KB11' AGL
 Drilling Measured From KB
 Other Services
 CDNL
 ML
 Elevation
 K.B. 2248'
 D.F. 2247'
 G.L. 2237'

Date	9-11-18
Run Number	One
Depth Driller	4530'
Depth Logger	4532'
Bottom Logged Interval	4530'
Top Log Interval	210'
Casing Driller	8 5/8" @ 229'
Casing Logger	229'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.25/56
PH / Fluid Loss	8.5/10.8
Source of Sample	Pit
Rm @ Meas. Temp	0.8@76degf
Rmf @ Meas. Temp	0.64@76degf
Rmc @ Meas. Temp	1.02@76degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.53@115degf
Time Circulation Stopped	11:45 p.m
Time Logger on Bottom	2:20 a.m
Maximum Recorded Temperature	115degf
Equipment Number	T127
Location	Hays, KS
Recorded By	C.Patterson
Witnessed By	Mr. Aaron Young

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Bazine, Ks Intersection Of DD Rd./Austin St. & Hwy. 96, Go South on DD Rd. for 9 mi. to 40 Rd., Then go West on 40 Rd. for 2.5 mi. , Then South into Location

Thanks for using Gemini Wireline LLC
 785-625-1182



MAIN PASS

Database File ppmcjunkin#1oh.db
 Dataset Pathname pass2.1
 Presentation Format kdi1inn
 Dataset Creation Tue Sep 11 04:31:13 2018
 Charted by Depth in Feet scaled 1:600

0 GR (GAPI) 150

1000 CILD (mmho/m) 0

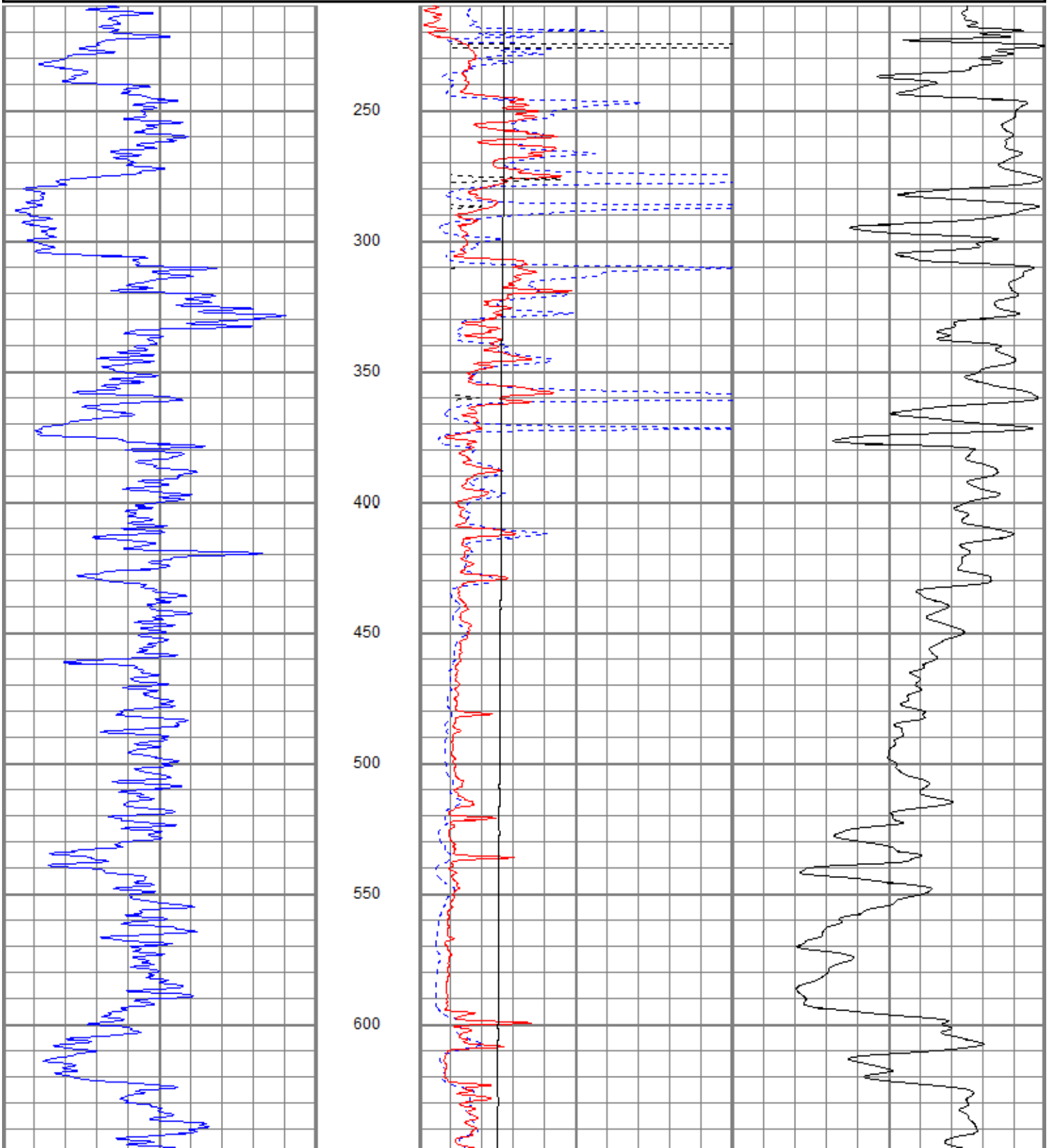
10000 LTEN (lb) 0

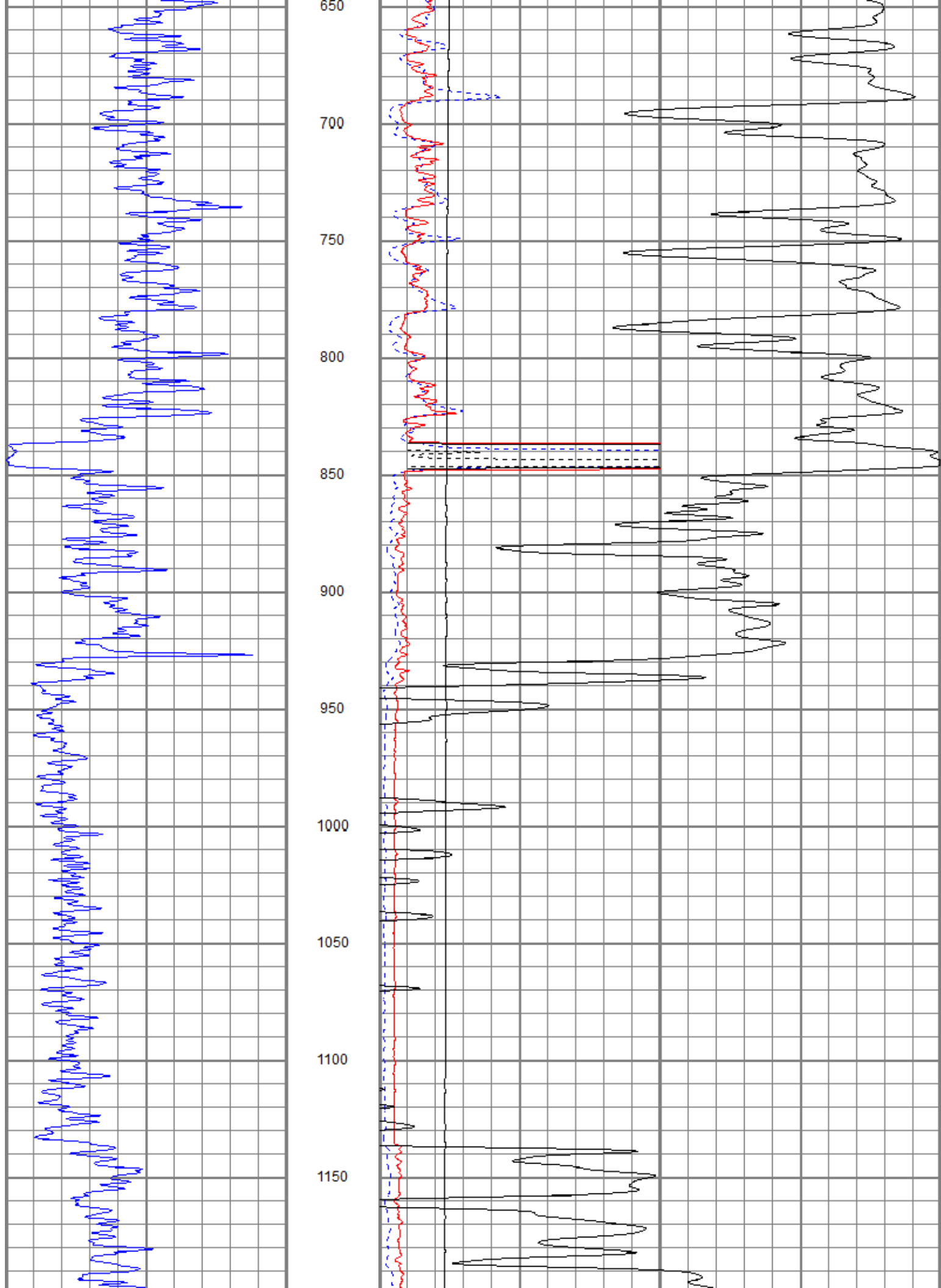
0 RILD (Ohm-m) 50

0 RLL3 (Ohm-m) 50

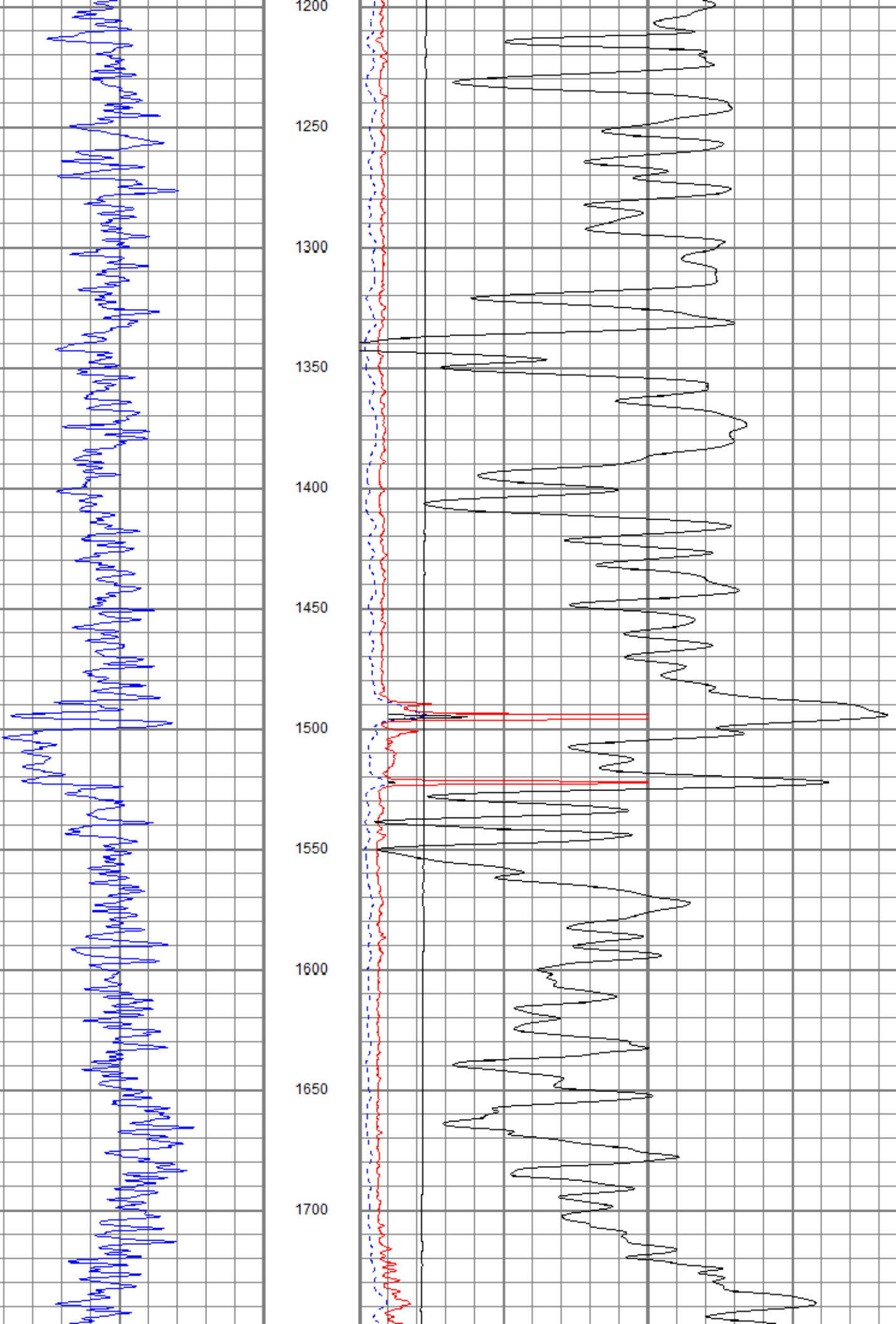
50 RILD x 10 (Ohm-m) 500

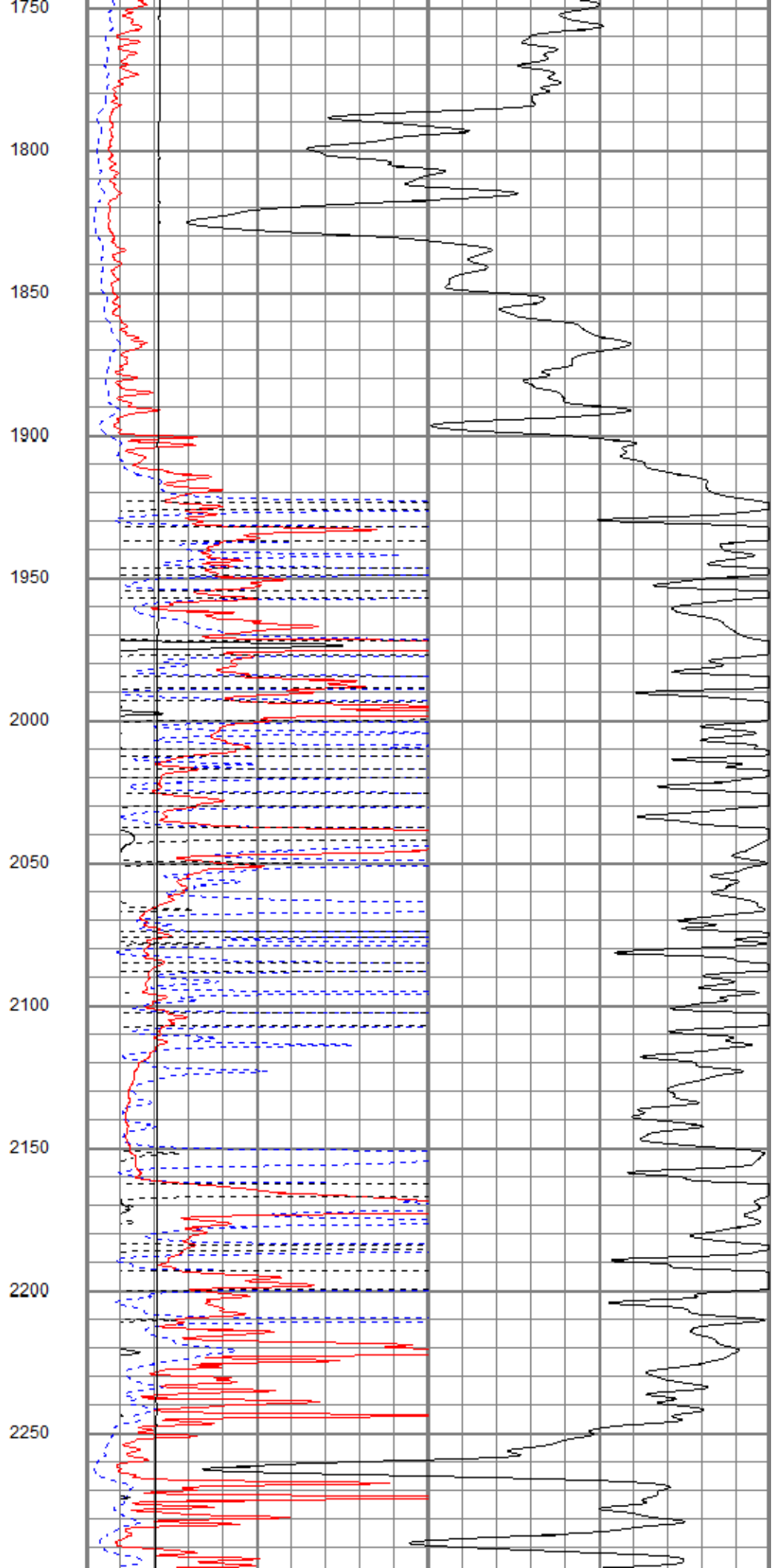
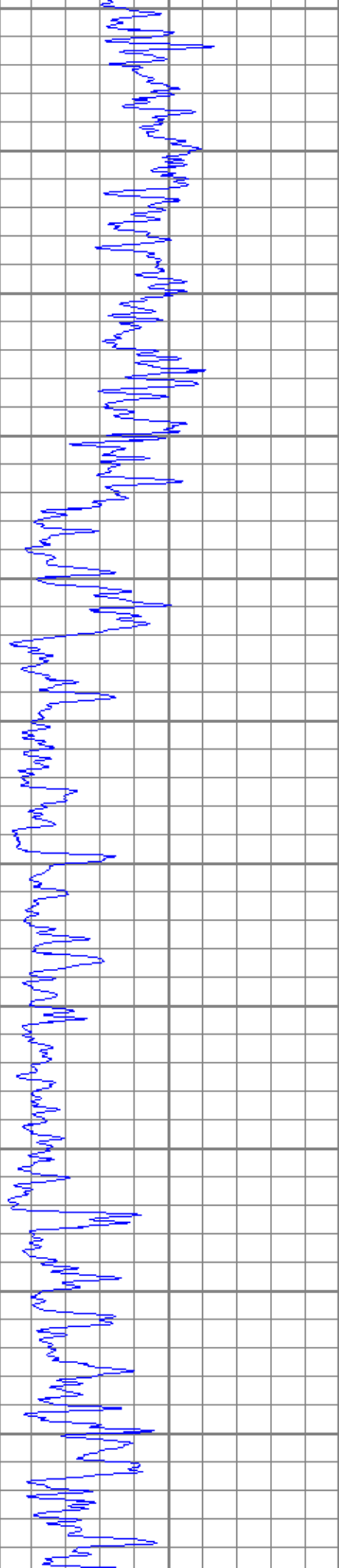
50 RLL3 x 10 (Ohm-m) 500

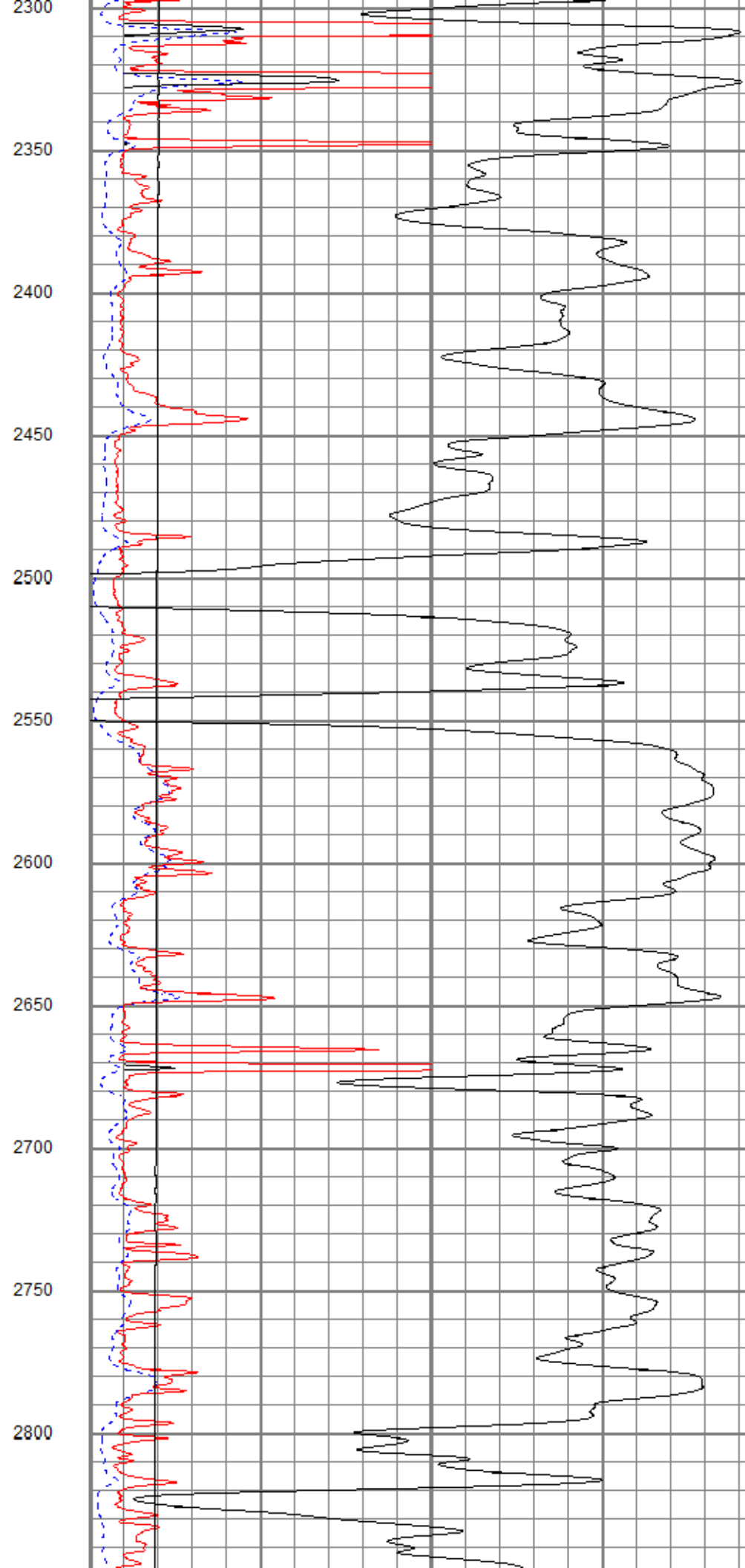
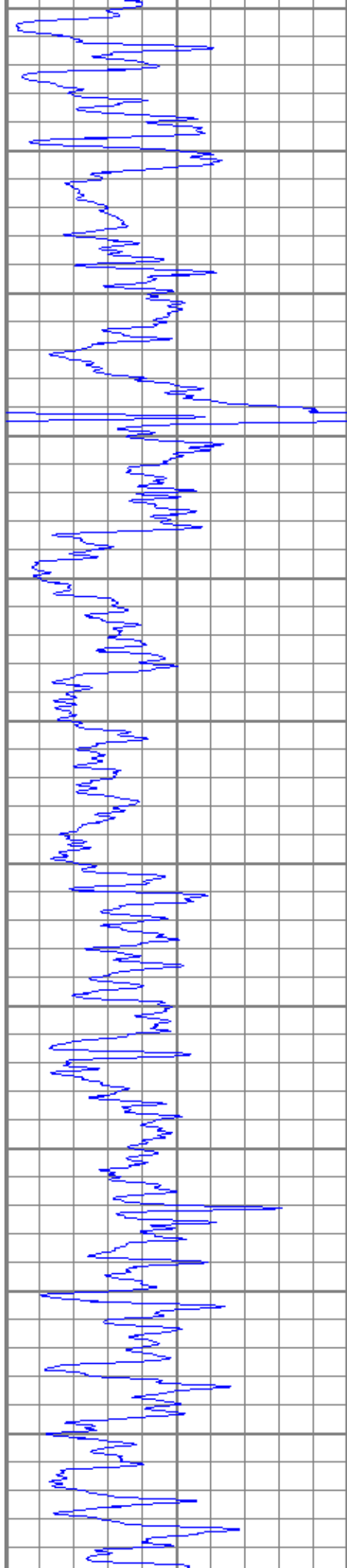


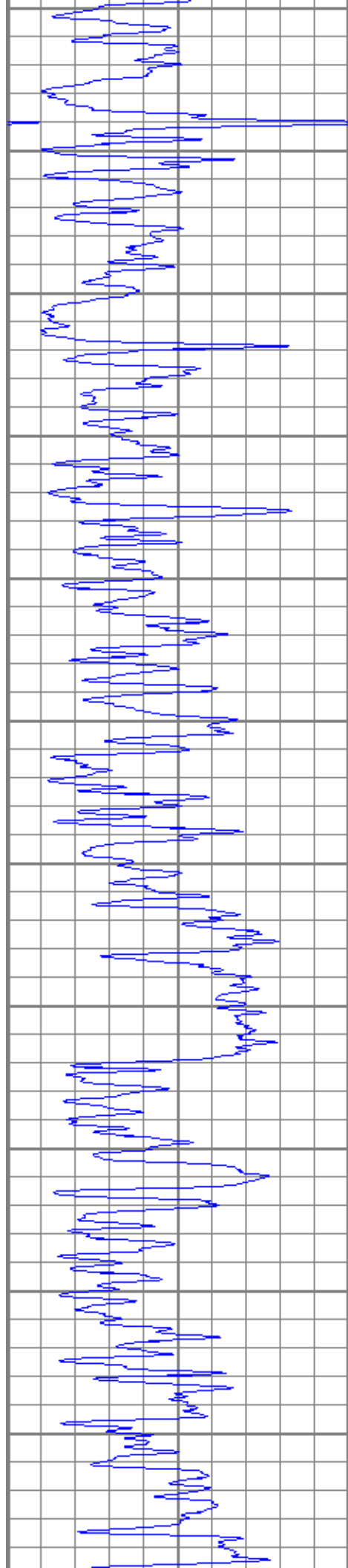


1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700

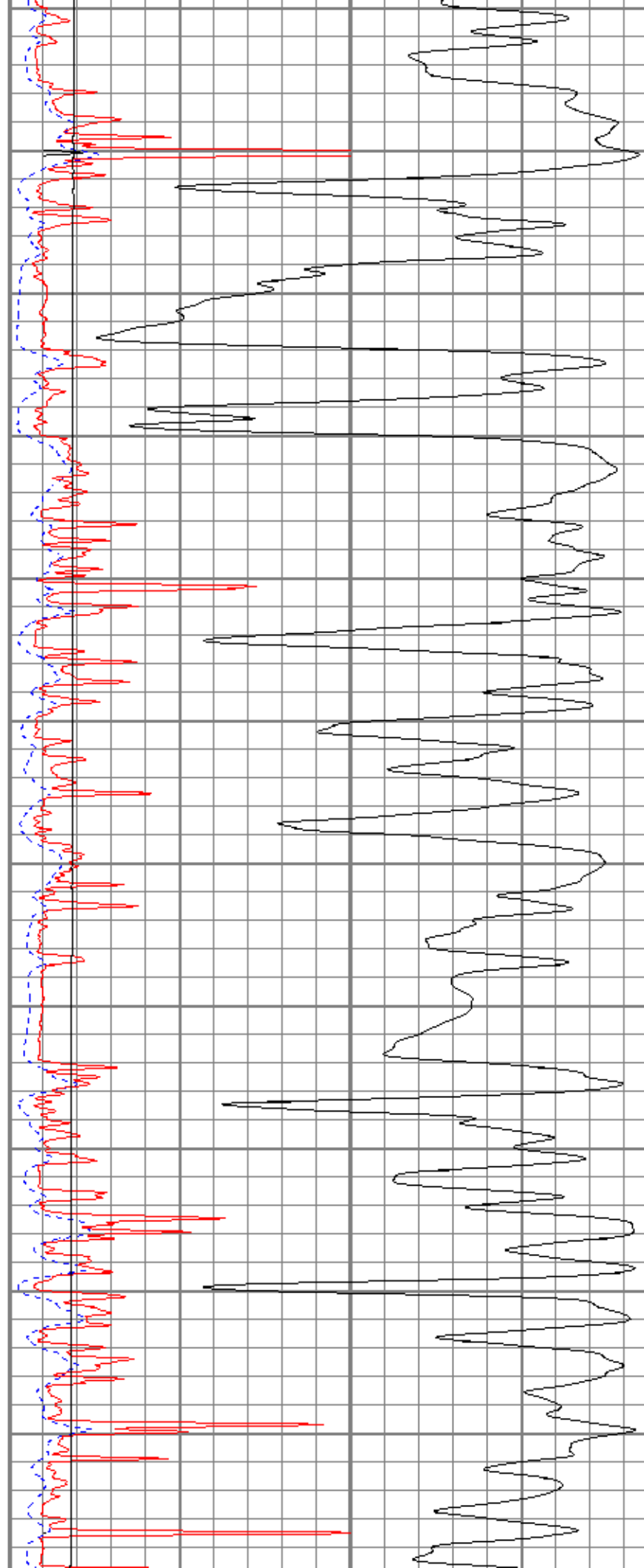


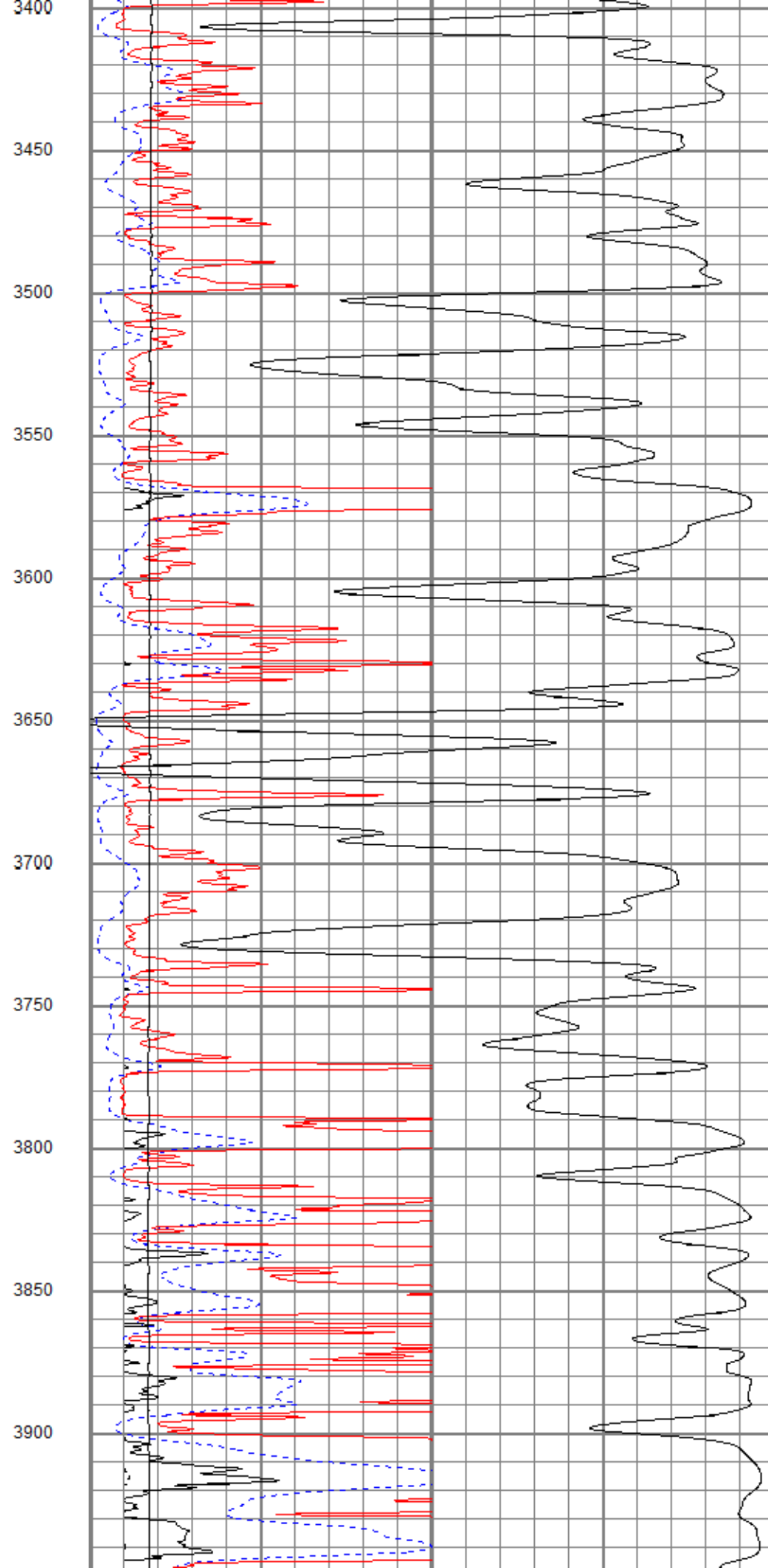
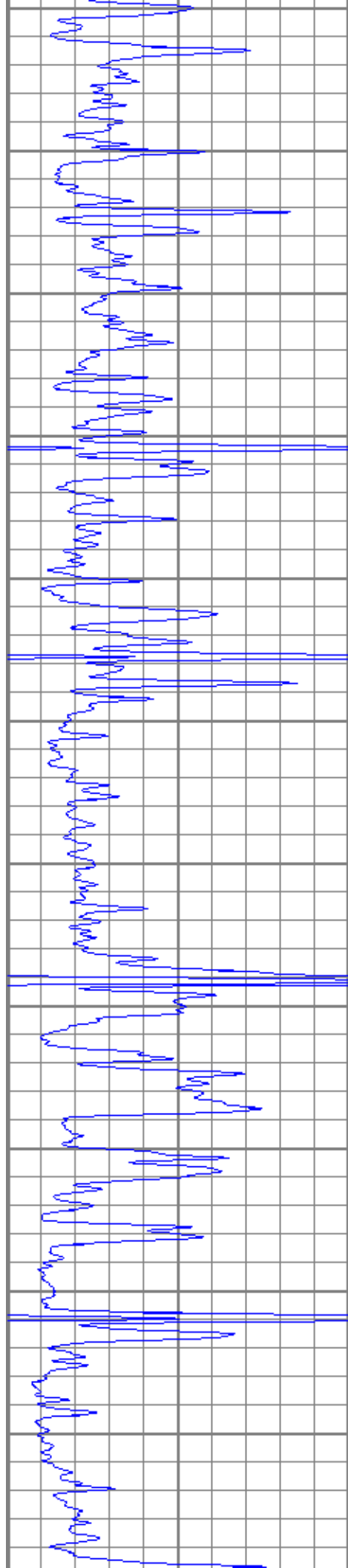


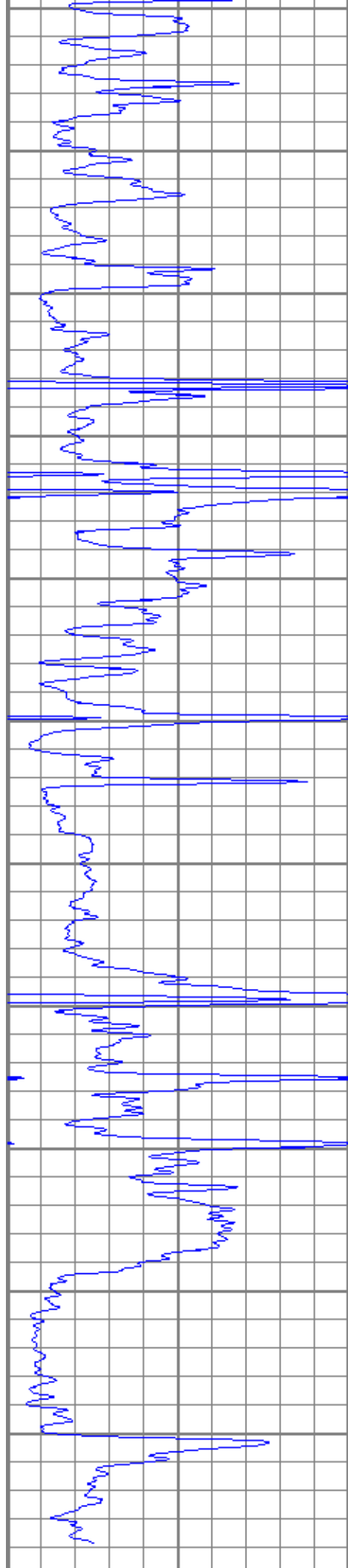




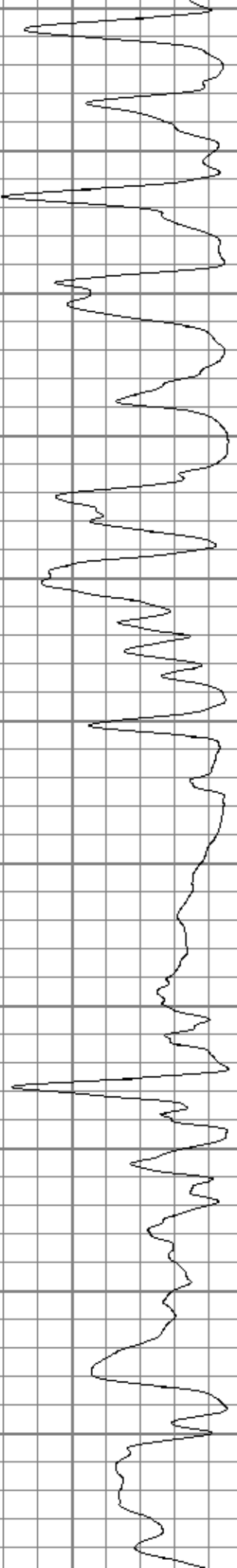
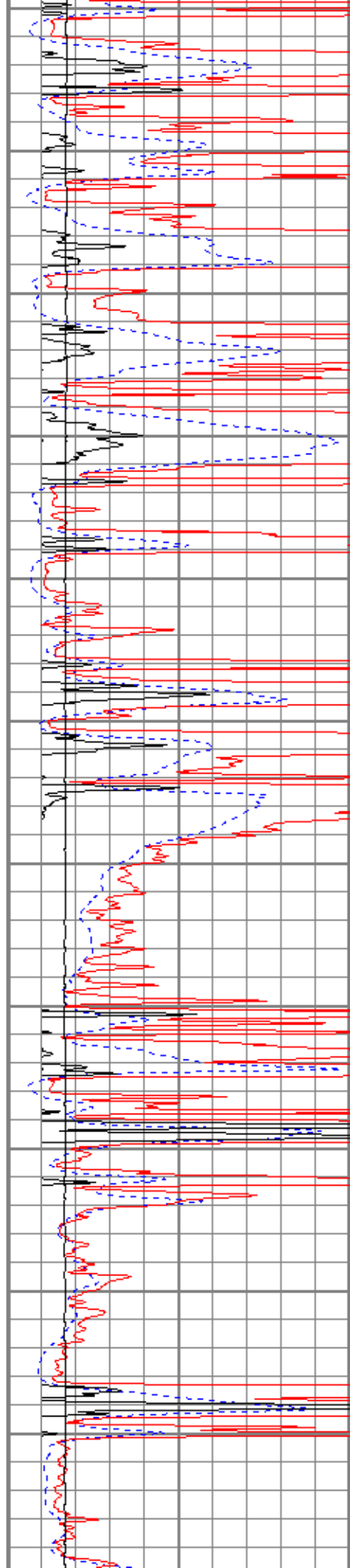
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350







3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450



4500



0 GR (GAPI) 150

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 ppmcjunkin#1oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Tue Sep 11 04:31:13 2018
 Charted by Dept in Feet scaled 1:240

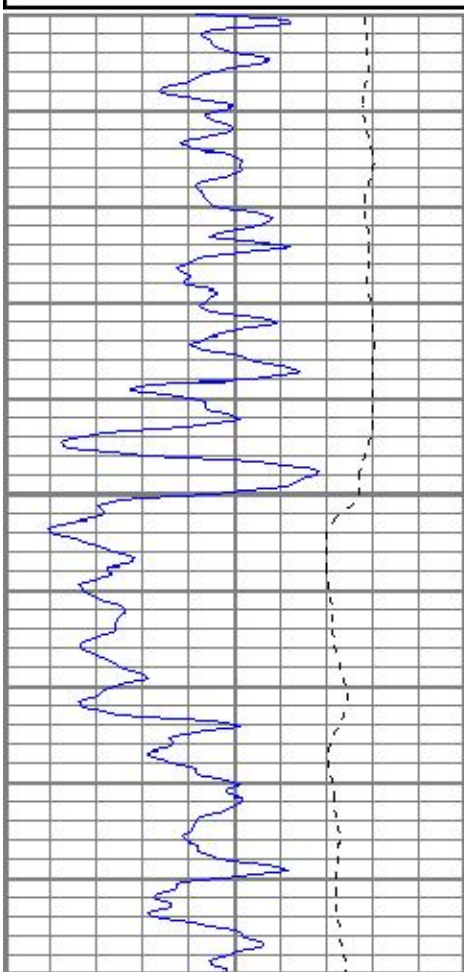
0 GR (GAPI) 150

-100 SP (mV) 100

0.2 RILD (Ohm-m) 2000

0.2 RLL3 (Ohm-m) 2000

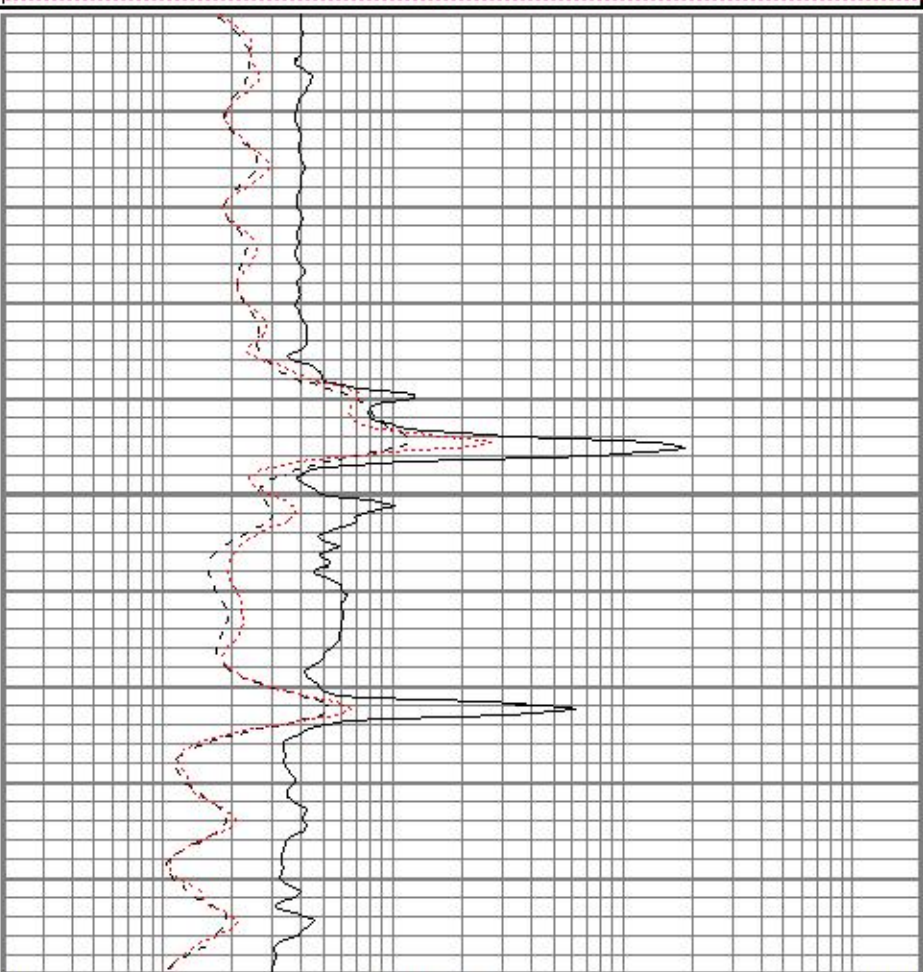
0.2 RILM (Ohm-m) 2000



1450

1500

1550



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

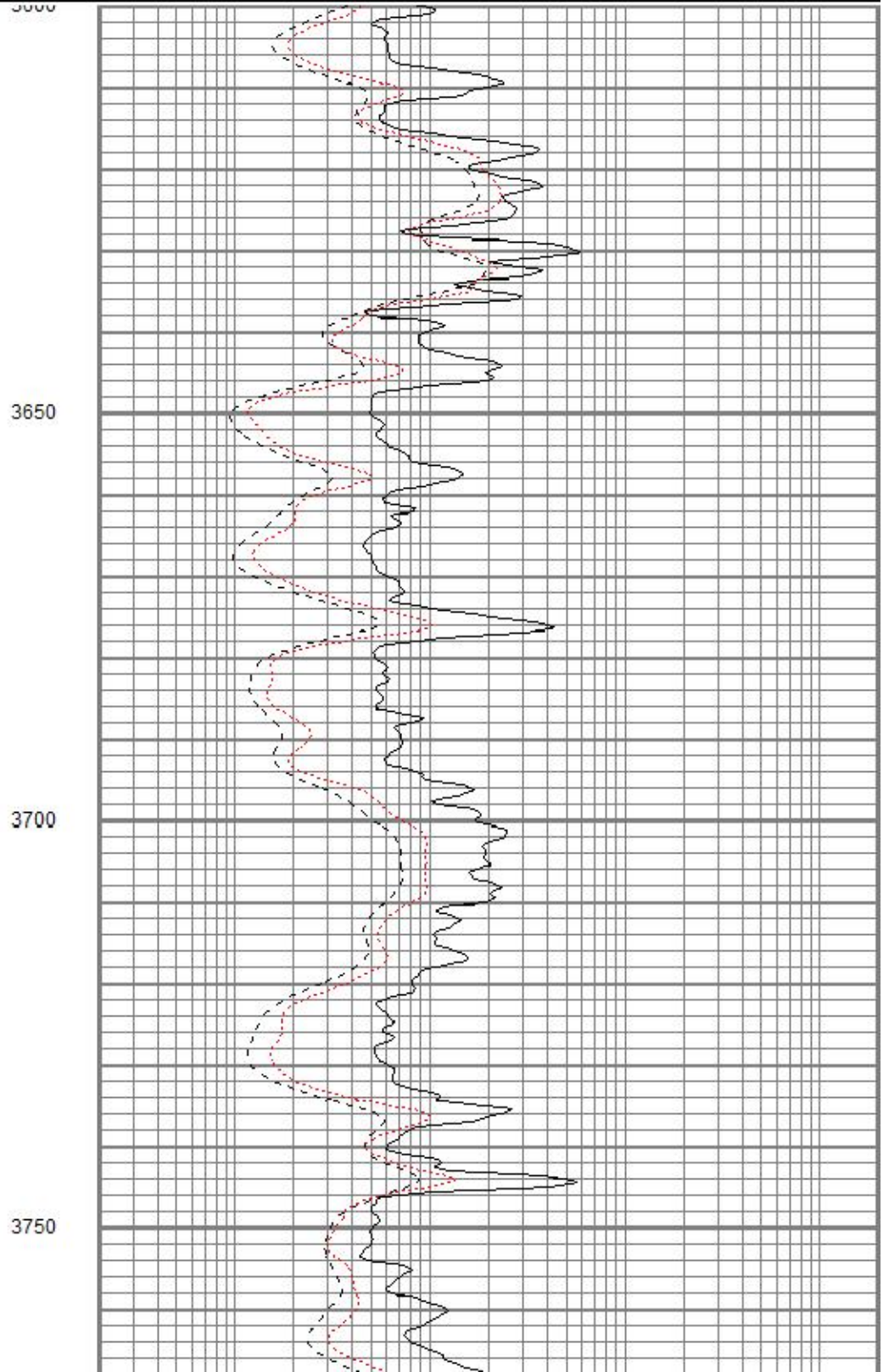
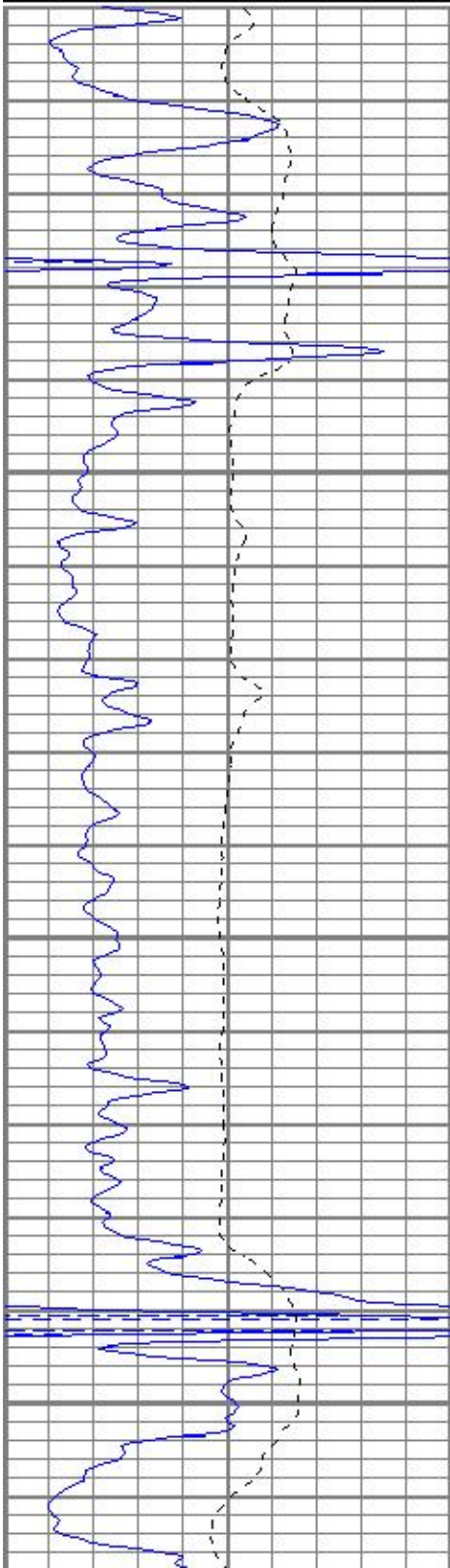


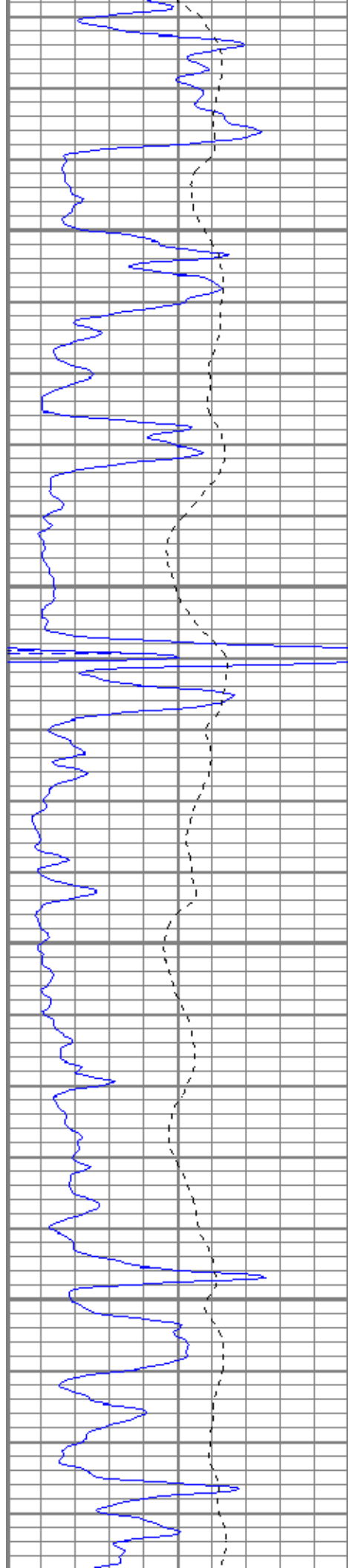
MAIN PASS

Database File ppmcjunkin#1oh.db
Dataset Pathname pass2.1
Presentation Format kdil
Dataset Creation Tue Sep 11 04:31:13 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



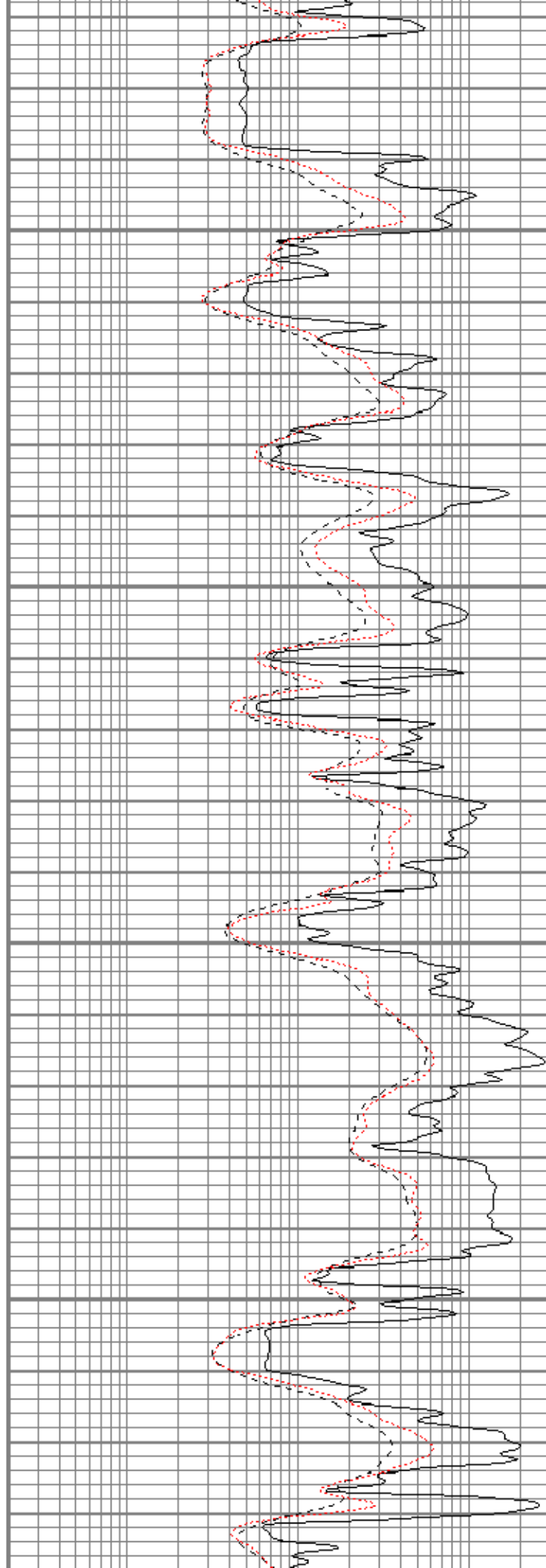


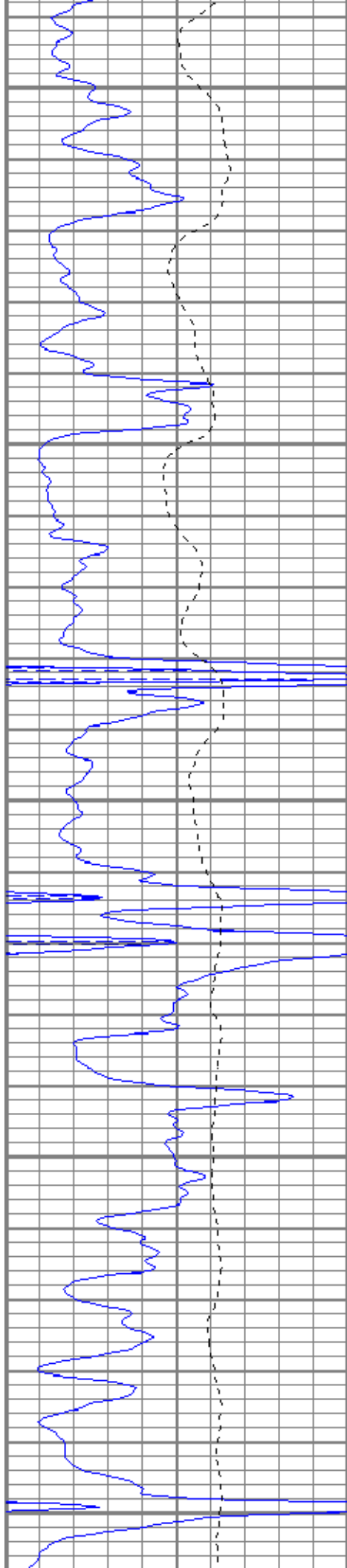
3800

3850

3900

3950





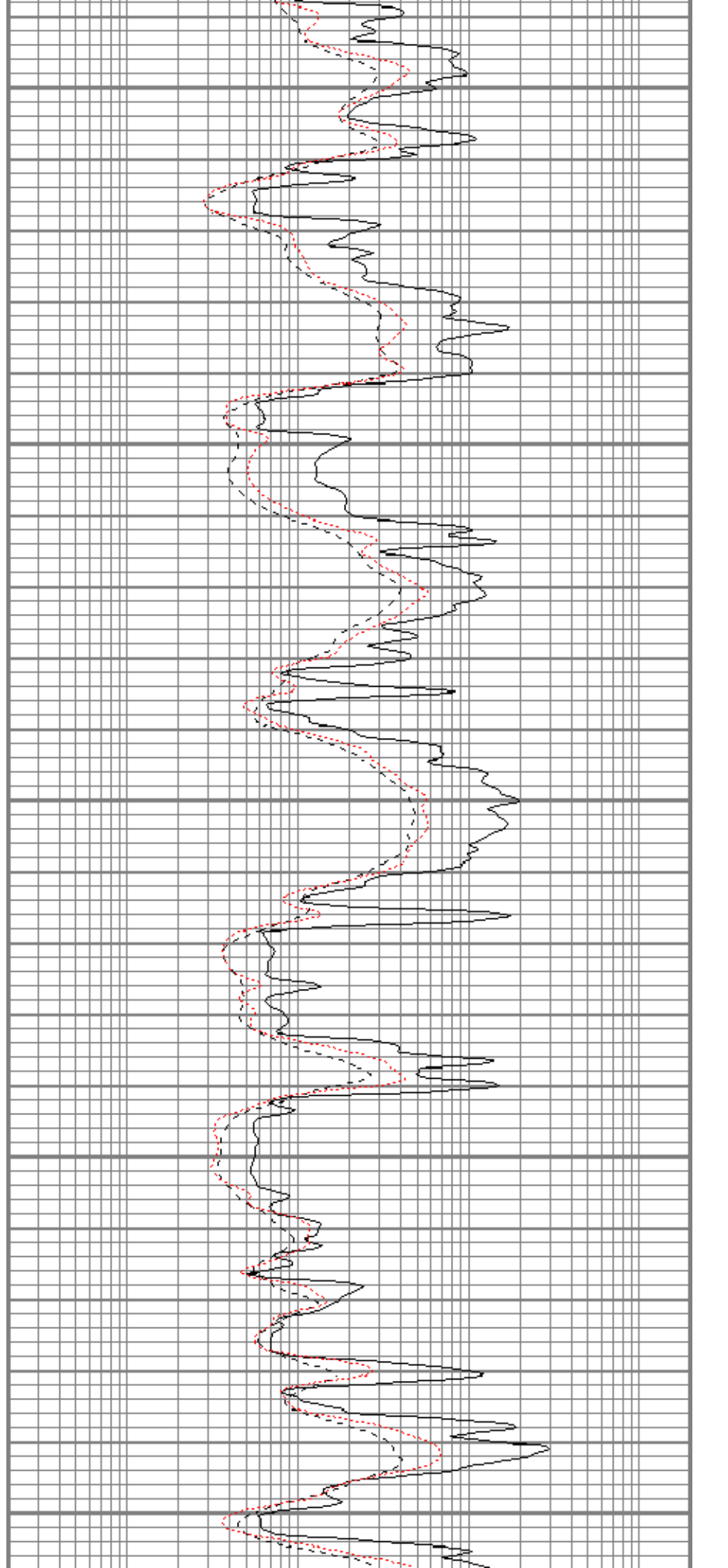
4000

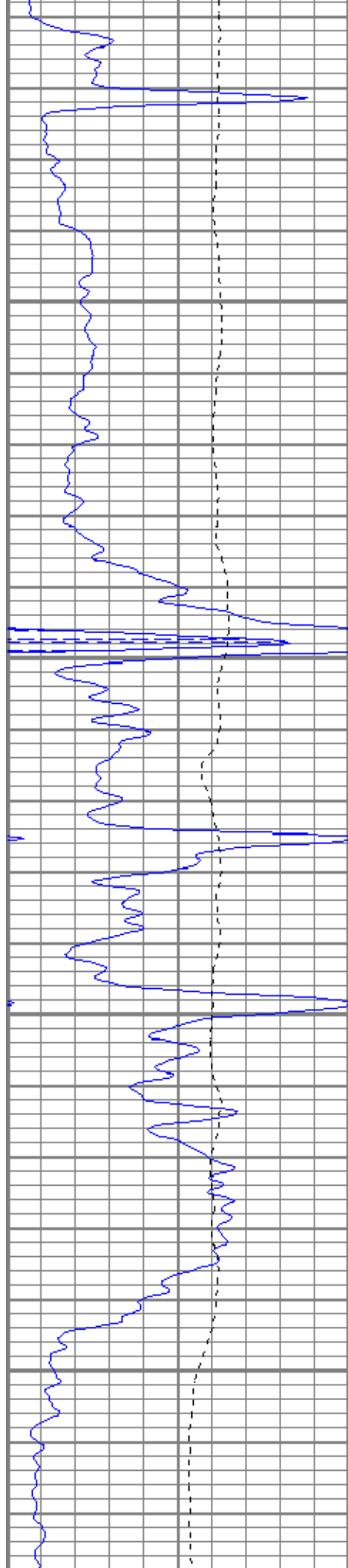
4050

4100

4150

4200



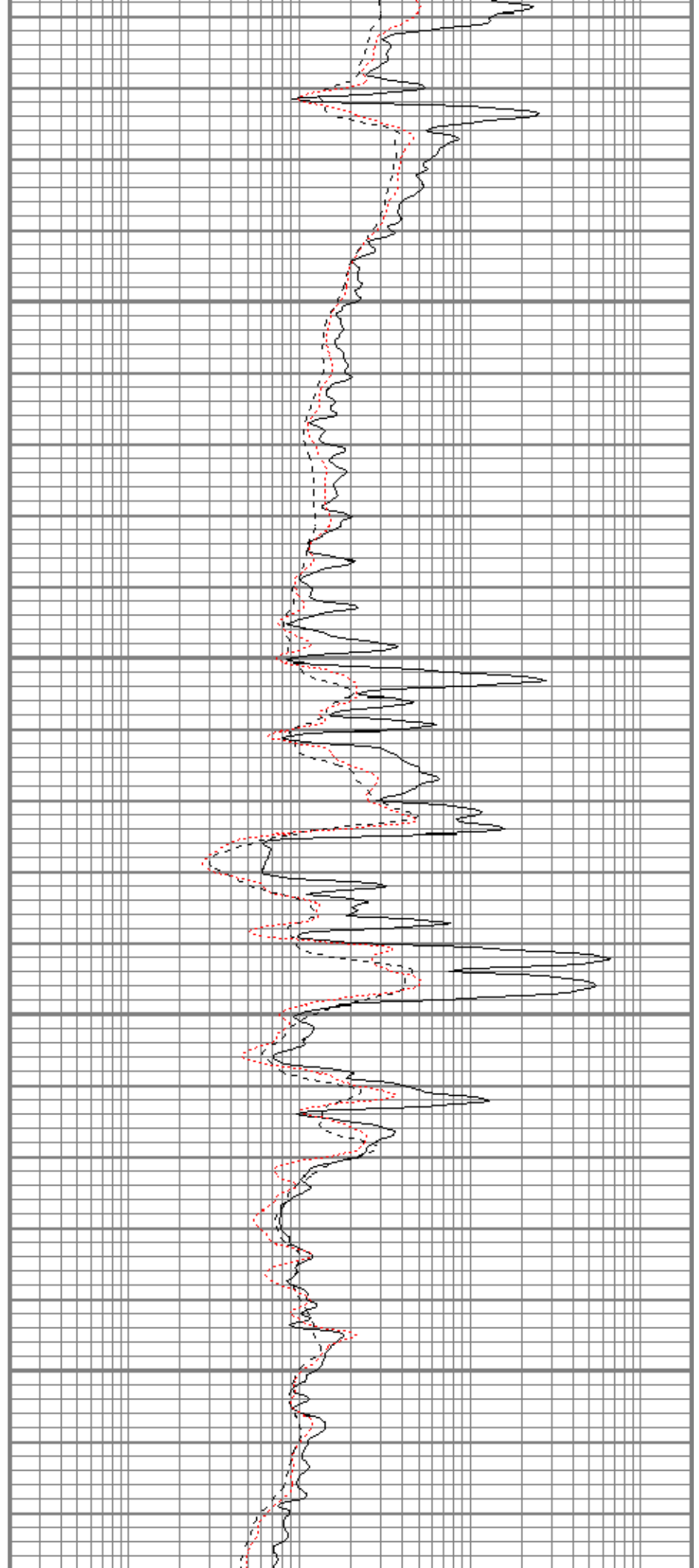


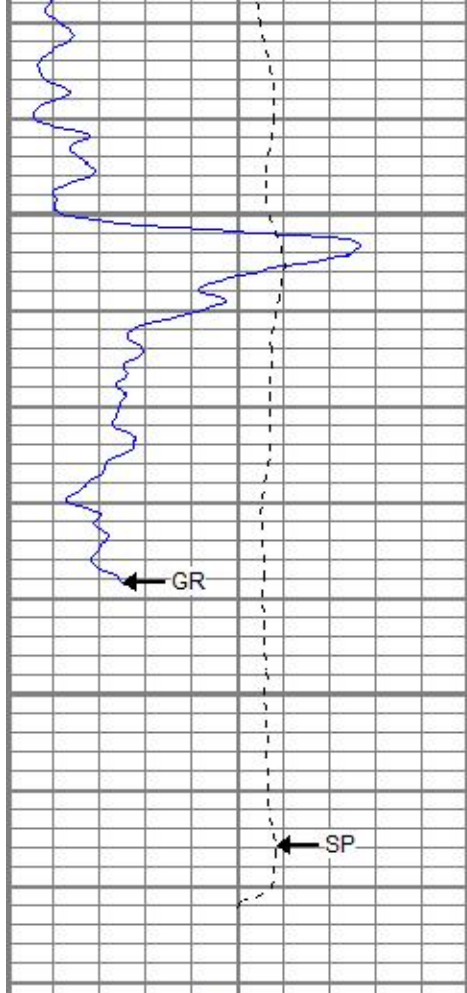
4250

4300

4350

4400





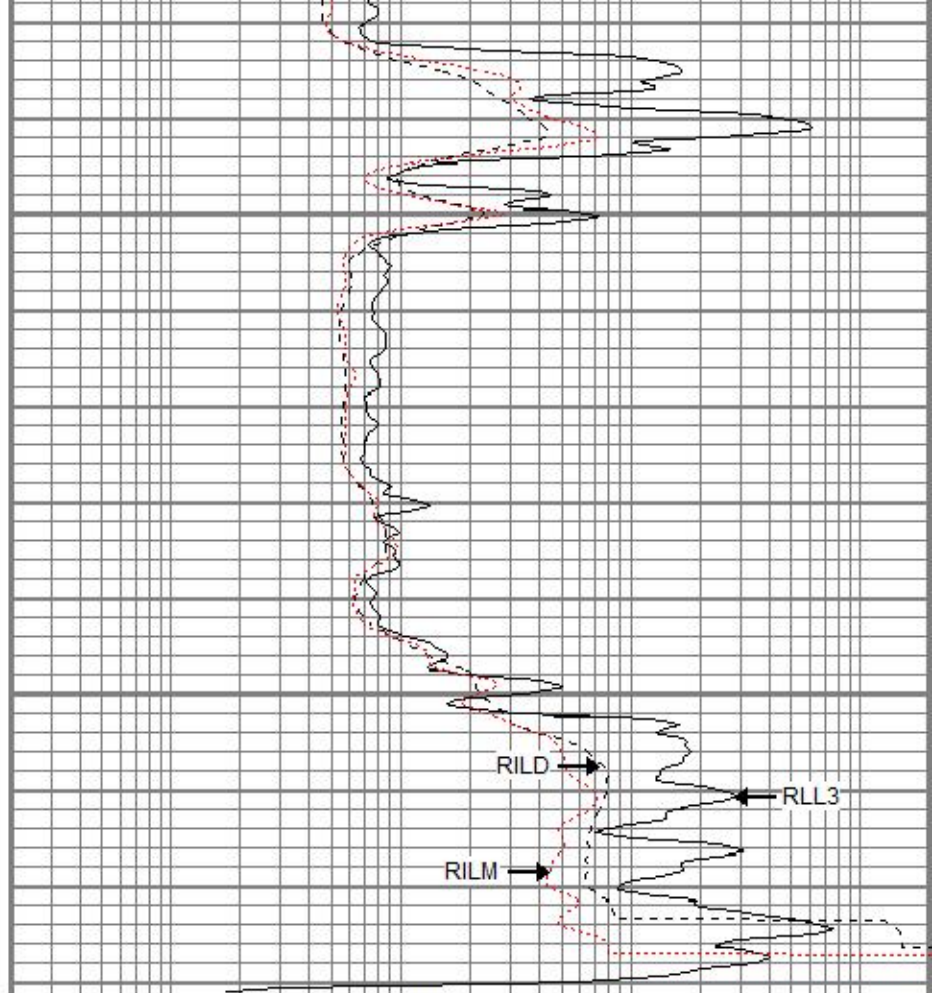
4450

4500

GR

SP

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



RILD

RLL3

RILM

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

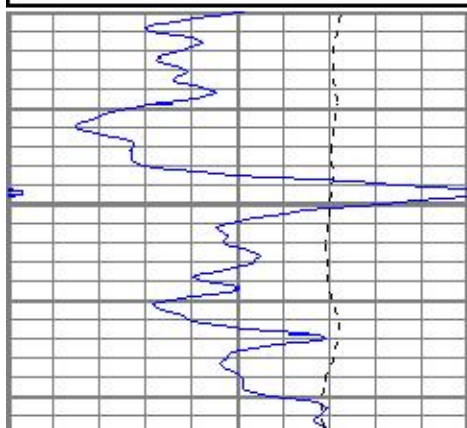


REPEAT SECTION

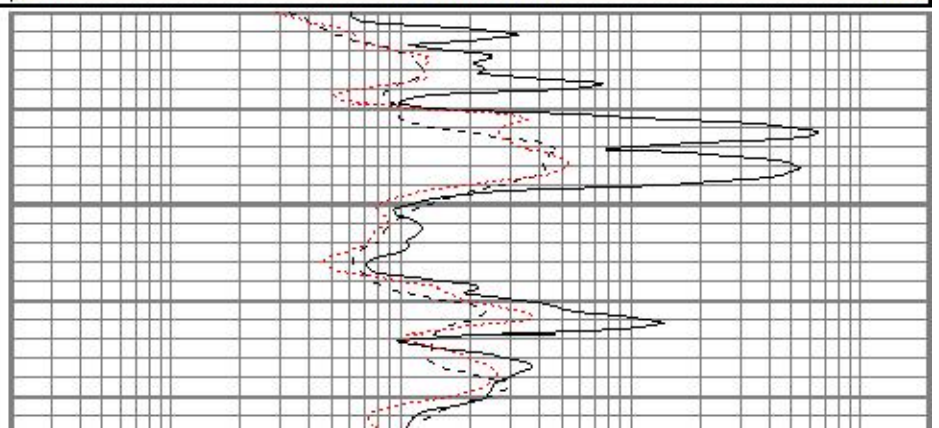
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 Dataset Pathname pass1.1
 Presentation Format kdil
 Dataset Creation Tue Sep 11 04:54:54 2018
 Charted by Depth in Feet scaled 1:240

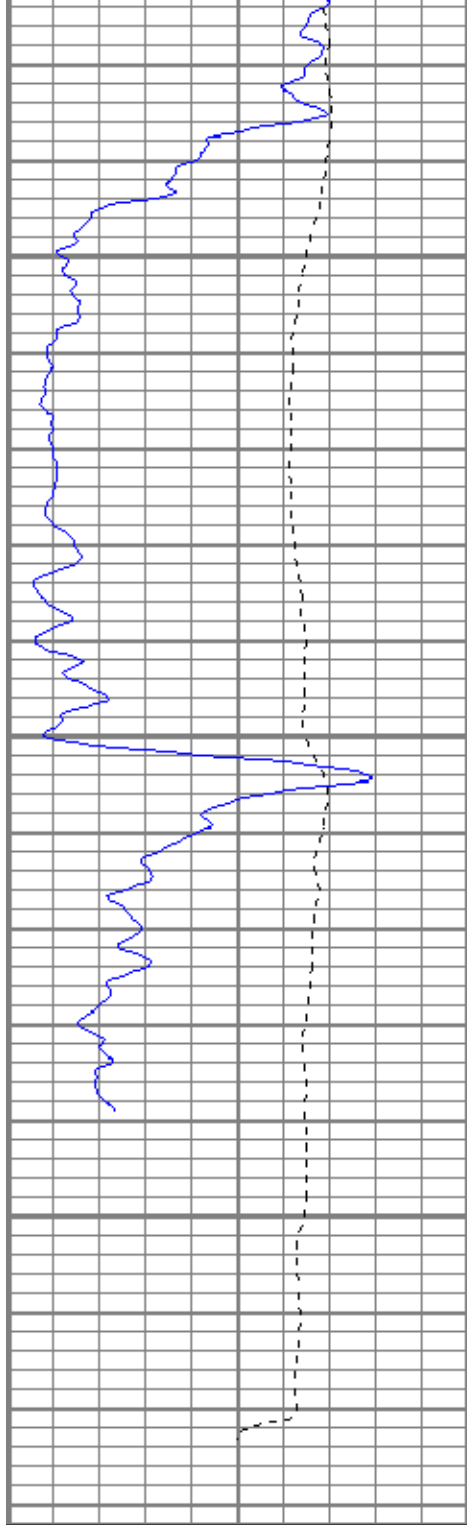
0	GR (GAPI)	150
-100	SP (mV)	100

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



4350



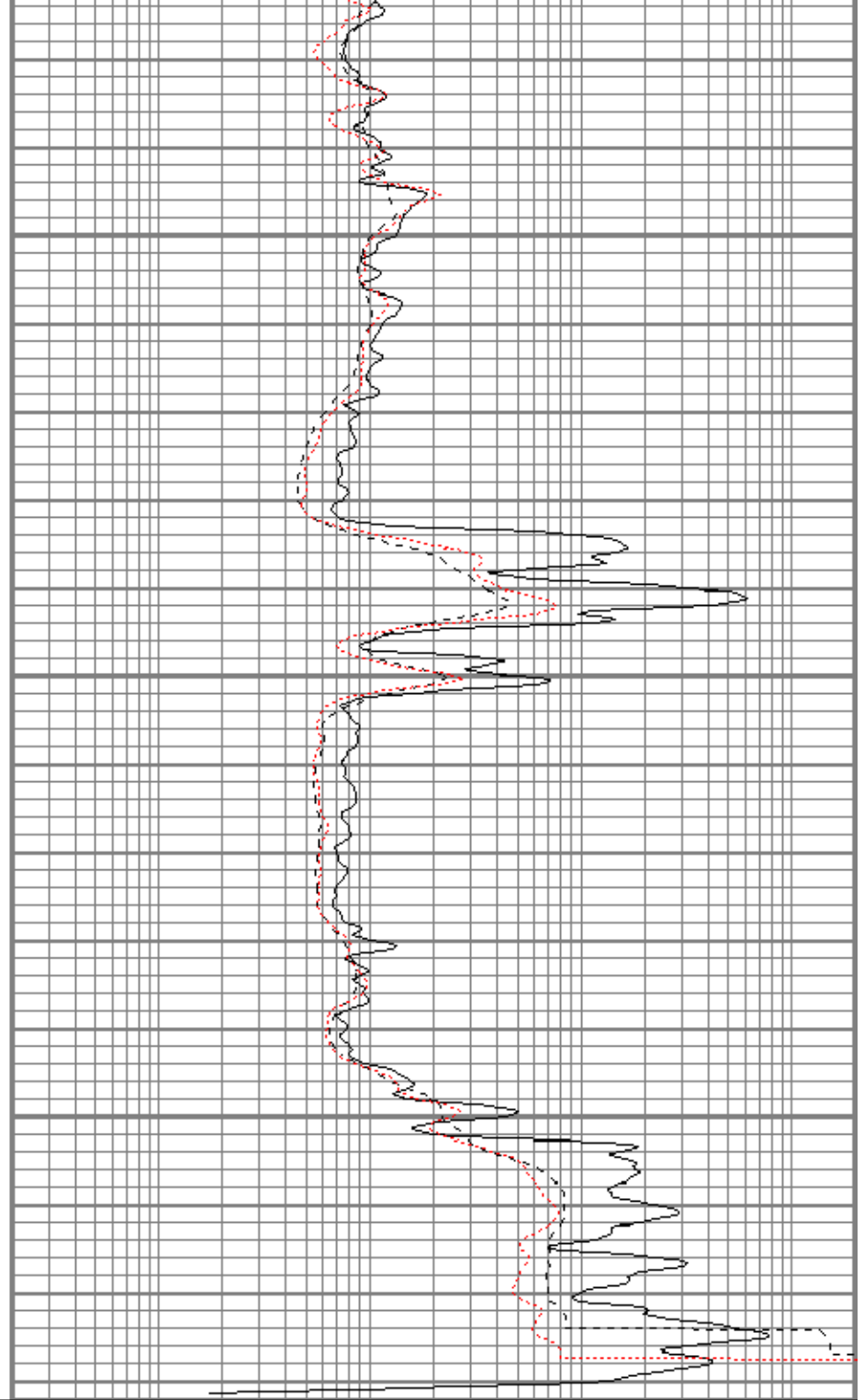


4400

4450

4500

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 ppmcjunkin#1oh.db
 Dataset Pathname pass2.1
 Dataset Creation Tue Sep 11 04:31:13 2018

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Sat Oct 10 08:33:18 2015
 Downhole Cal Performed: Sat Oct 10 08:33:23 2015
 After Survey Verification Performed: Sat Oct 10 08:33:27 2015

Surface Calibration

Loop:	Readings			References			Results	
	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								
Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	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	185.000	1.624

After Survey Verification								
Internal:	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	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

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Neutron Calibration Report								
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Serial Number:	ADM5139								
Tool Model:	lithogearhart								
Performed:	(Not Performed)								
Calibrator Value:	1	NAPI							
Calibrator Reading:	1	cps							
Sensitivity:	1	NAPI/cps							

Temperature Calibration Report								
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Serial Number:	WithMC							
Tool Model:	WMC							
Performed:	(Not Performed)							
	Reference				Reading			
Low Reference:	0.00	degF	0.00	degF	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF	1.00	degF	1.00	degF
Gain:	1.00							
Offset:	0.00							
Delta Spacing	1							

Inclinometer Calibration Report								
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Performed:	Mon Aug 07 11:02:07 2017							
	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	

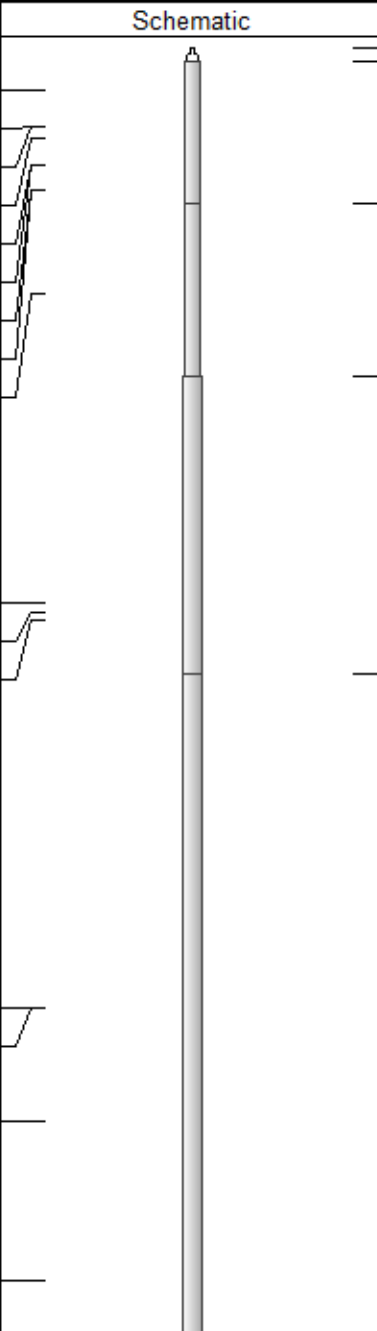
Gamma Ray Calibration Report

Serial Number: WithMC
 Tool Model: WMC
 Performed: Mon Aug 07 11:03:41 2017

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.9000 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STD	0.50	1.69	1.00
GR	40.47					
ACCY	39.30		ADT-WMC (WithMC)	4.58	3.50	120.00
ACCX	39.30		Admyr Telemetry With Mudcell			
SSTAT	38.89					
PSTAT	38.05					
ASTAT	38.05		NEU-lithogearhart (ADM5139)	5.65	3.50	85.00
GRD	37.22					
TEMP	37.22					
NEU	33.85					
			CDL-GEARHART (2501)	9.69	4.00	240.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
			DIL-G (5375)	21.47	4.00	345.00
SP	10.60		Gearhart			
CILD	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: ppmcjunkin#1oh.db: field/well/run1/pass2.1
 Total length: 41.89 ft
 Total weight: 791.00 lb
 O.D.: 4.00 in