



DUAL INDUCTION LOG

Company Outlaw Well Service, LLC.

Well Shaw IKE

Field Unknown

County Decatur

State KS

Location:

API #: 15 039 21244

1645' FSL & 1910' FEL

SEC 20 TWP 5S RGE 29W

Permanent Datum Ground Level Elevation 2803'
Log Measured From KB 8' AGL
Drilling Measured From KB

Other Services
ML
CDNL
Elevation
K.B. 2811'
D.F. 2810'
G.L. 2802'

Date

1-13-18

Run Number

One

Depth Driller

4150'

Depth Logger

4151'

Bottom Logged Interval

4149'

Top Log Interval

210'

Casing Driller

8 5/8" @ 221'

Casing Logger

221'

Bit Size

7 7/8"

Type Fluid in Hole

Chemical Mud

Density / Viscosity

8.9/46

pH / Fluid Loss

9.5/6.8

Source of Sample

Pit

Rm @ Meas. Temp

1.7@74degf

Rmf @ Meas. Temp

1.36@74degf

Rmc @ Meas. Temp

2.18@67.4degf

Source of Rmf / Rmc

Calculated

Rm @ BHT

1.22@103degf

Time Circulation Stopped

6:00 p.m.

Time Logger on Bottom

8:00 p.m.

Maximum Recorded Temperature

103degf

Equipment Number

T127

Location

Hays, KS.

Recorded By

C. Patterson

Witnessed By

Mr. Herb Deines

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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

W side of selden go N on Kentucky Ave/Rd 70 W for about 5 mi.
Then west 1.3 mi on Rd. North into

Thank you for using Gemini Wireline
785-625-1182



MAIN PASS

Database File owsshawkeoh.db
Dataset Pathname pass3.1
Presentation Format kdi11inn
Dataset Creation Sat Jan 13 21:24:25 2018
Charted by Depth in Feet scaled 1:600

0 GR (GAPI) 150

1000 CILD (mmho/m) 0

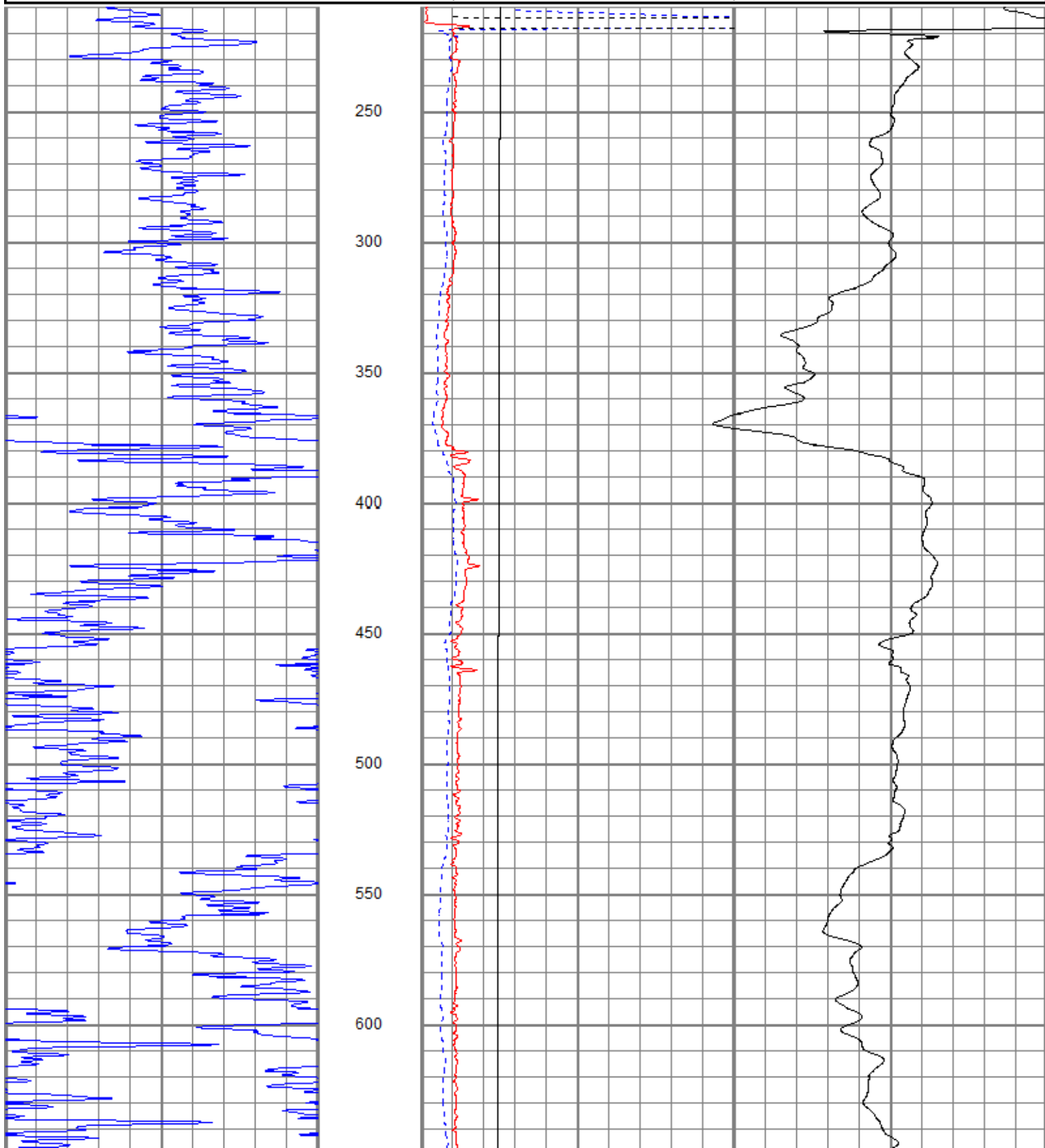
10000 LTEN (lb) 0

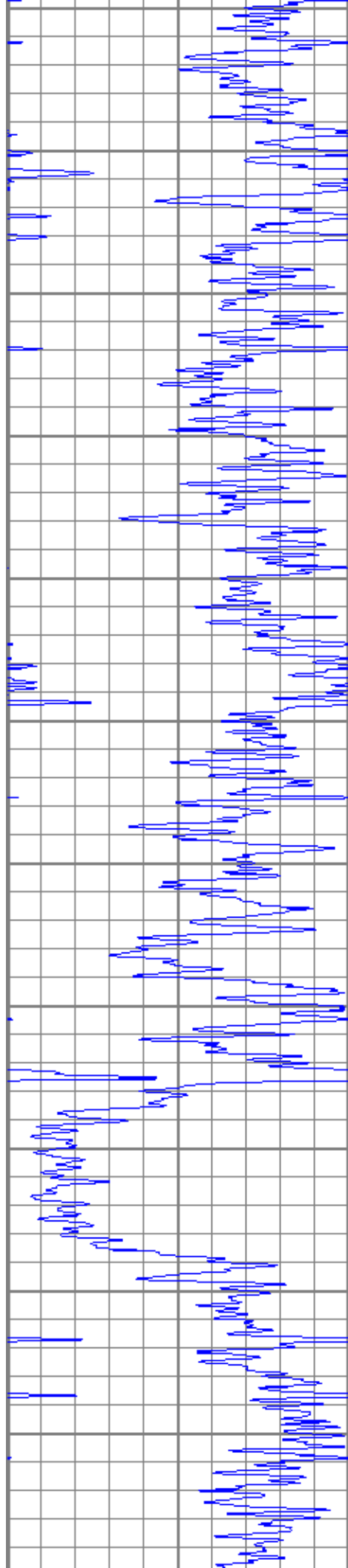
0 RILD (Ohm-m) 50

0 RLL3 (Ohm-m) 50

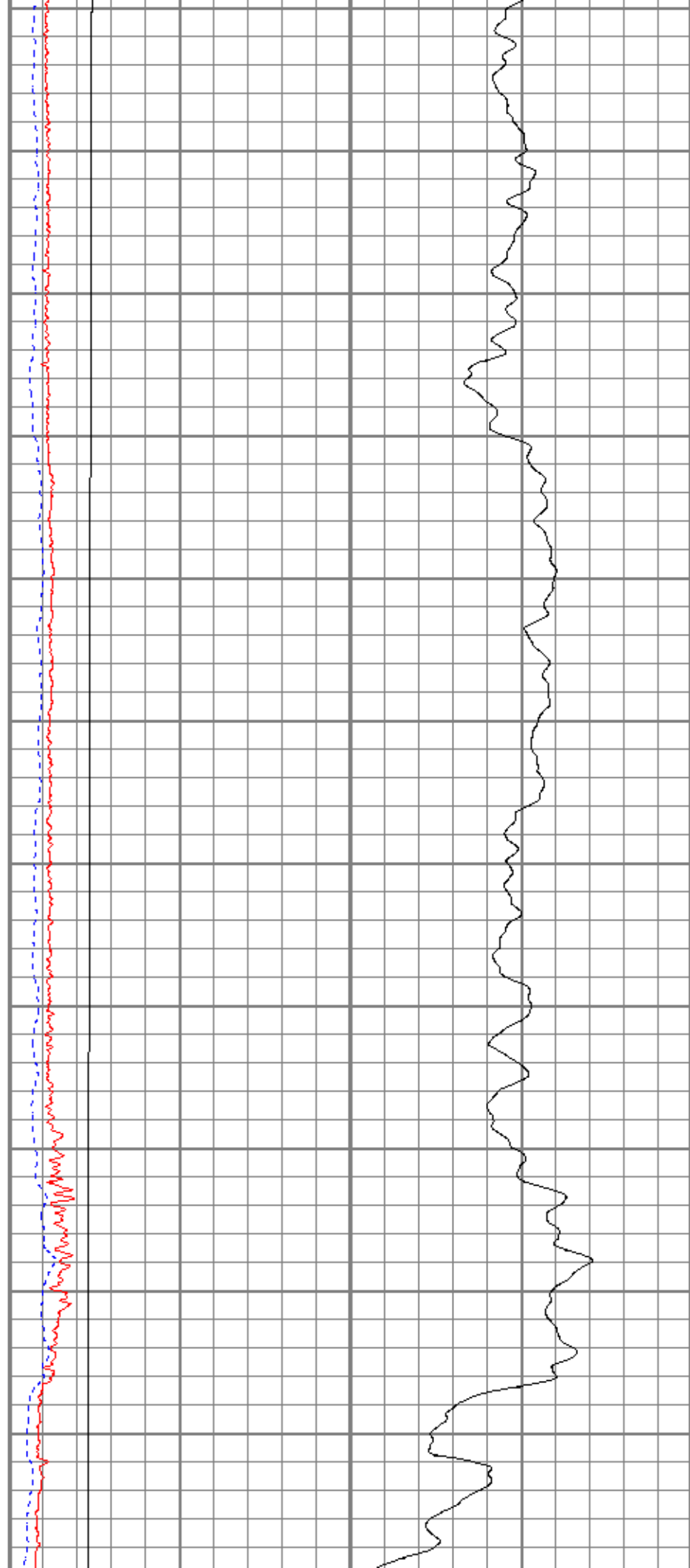
50 RILD x 10 (Ohm-m) 500

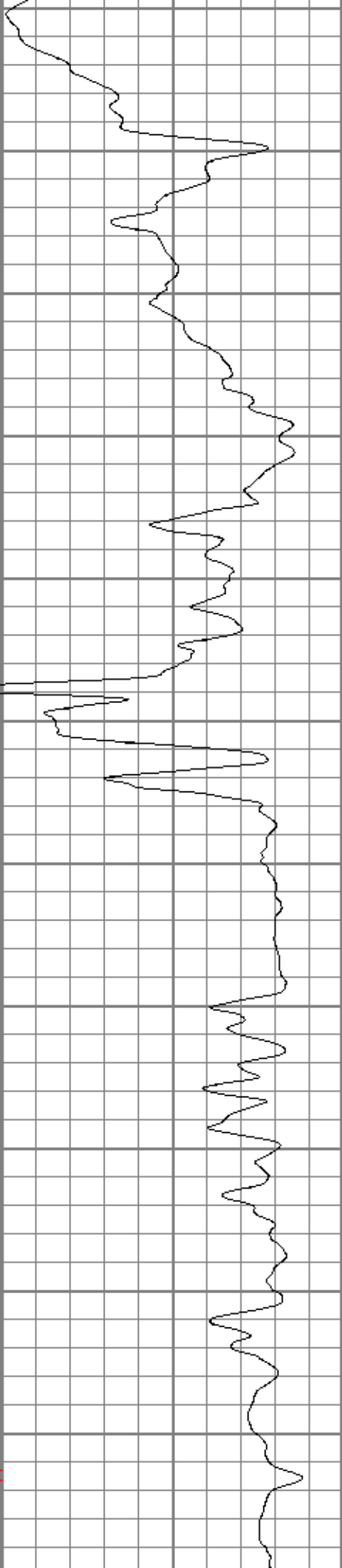
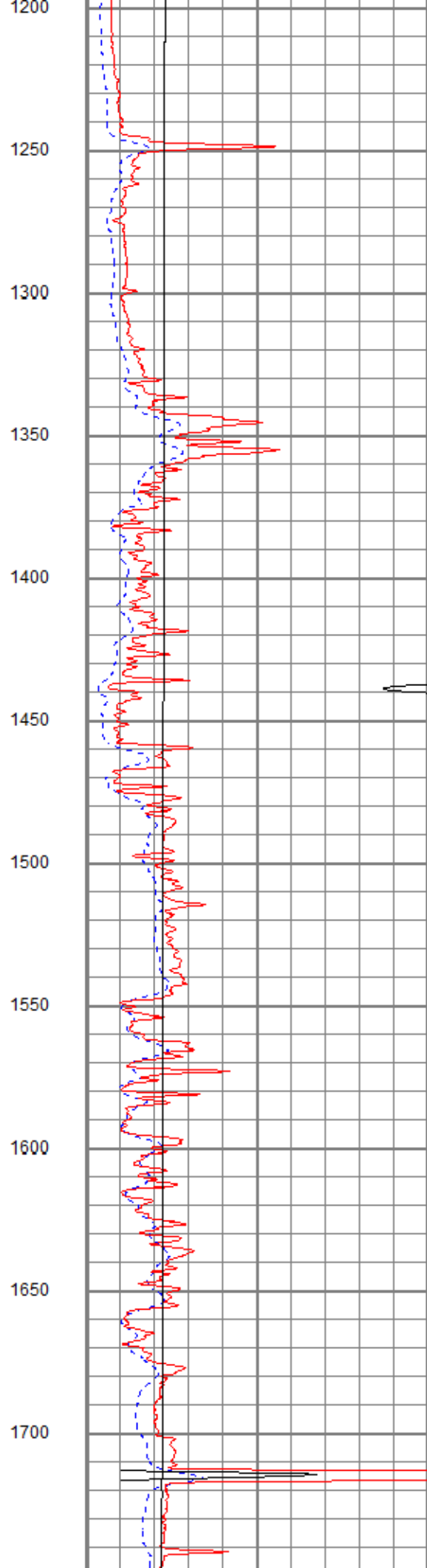
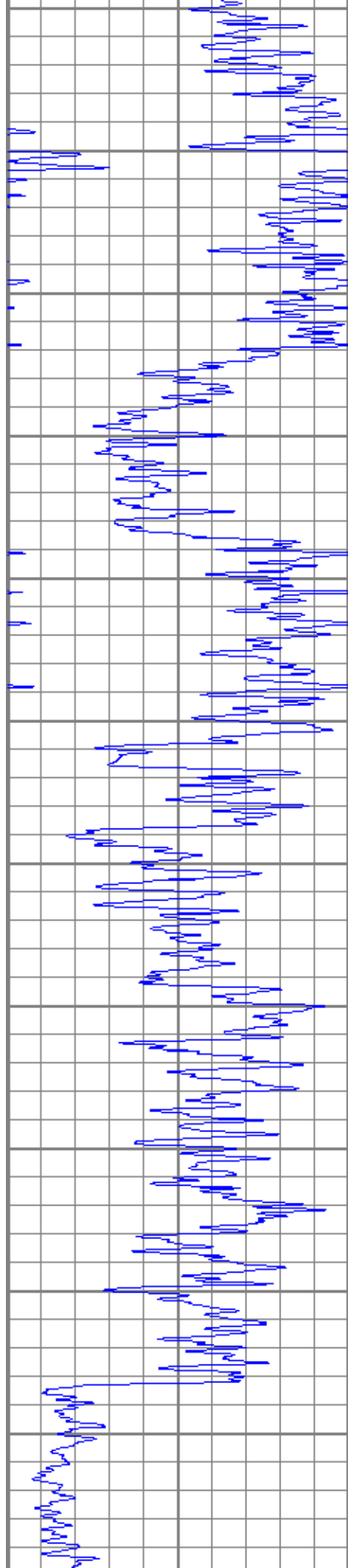
50 RLL3 x 10 (Ohm-m) 500

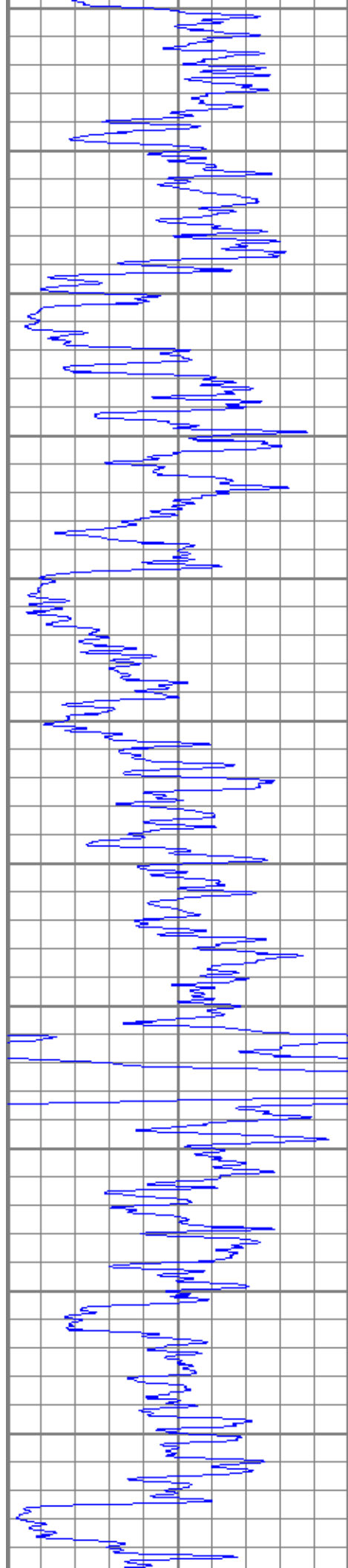




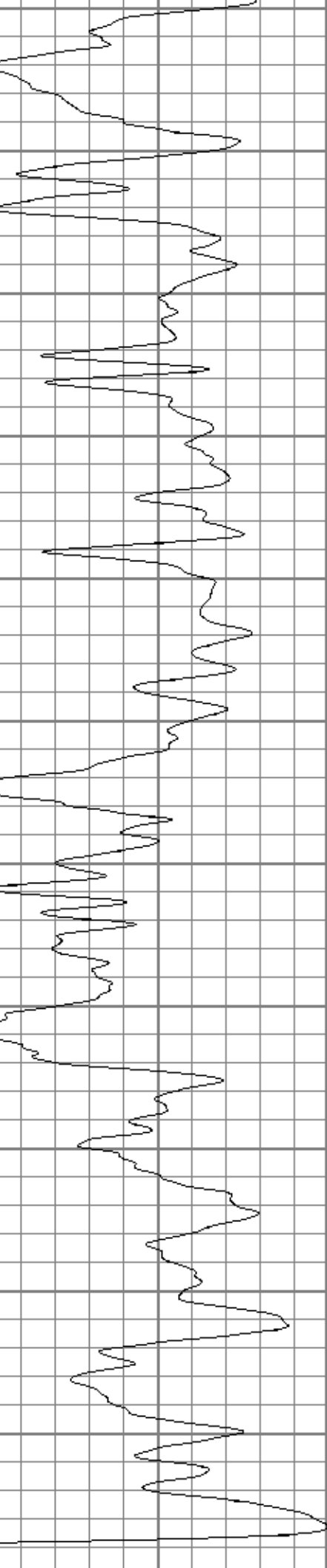
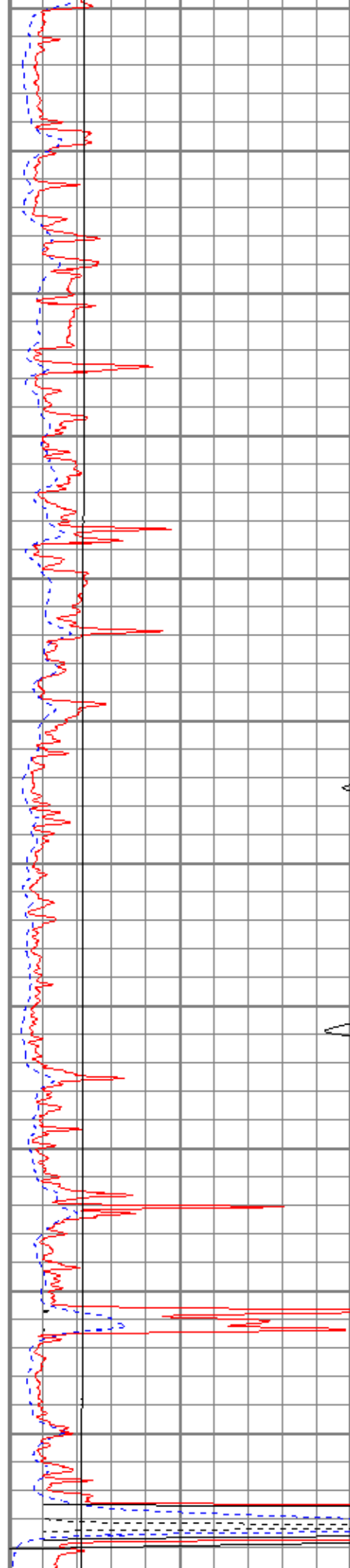
650
700
750
800
850
900
950
1000
1050
1100
1150

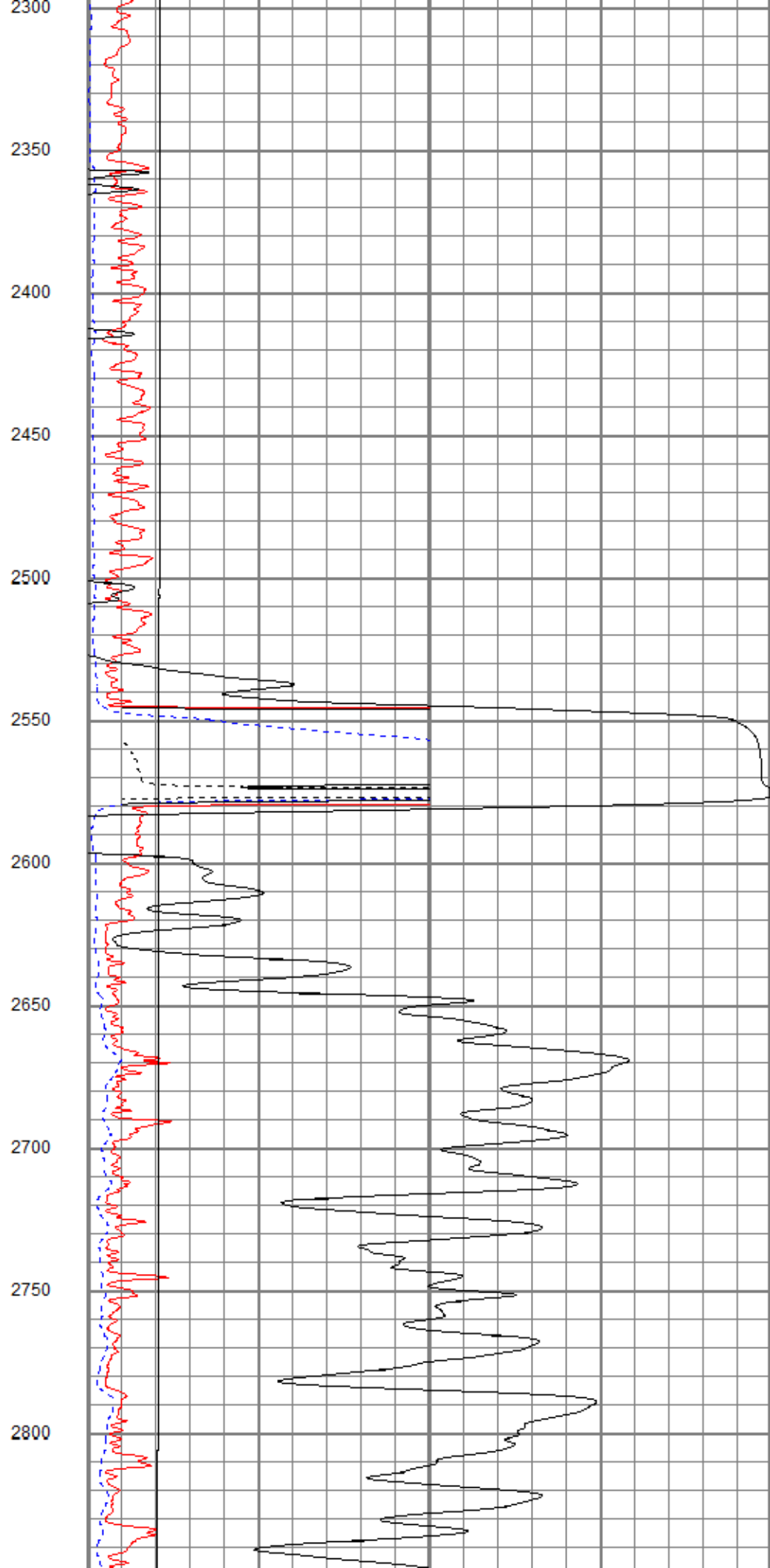
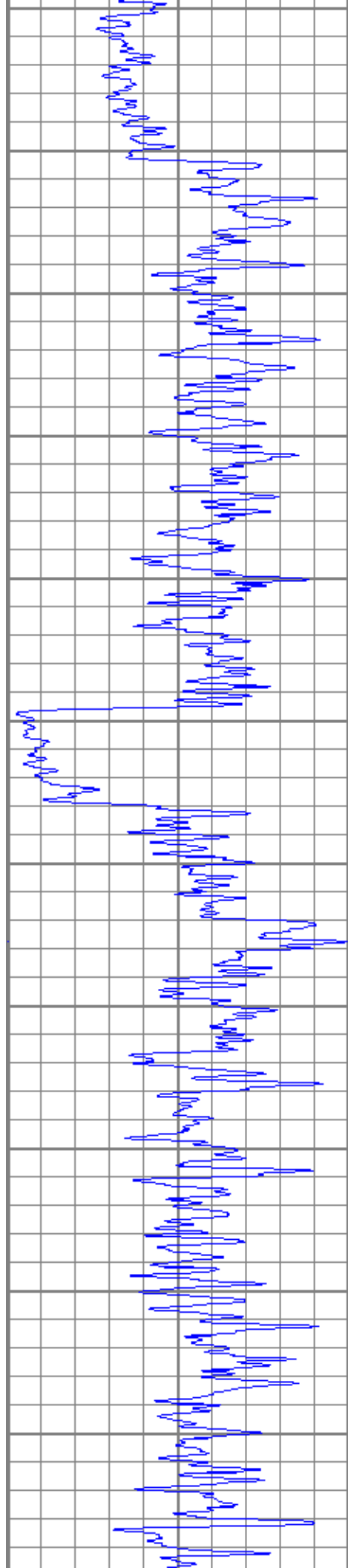


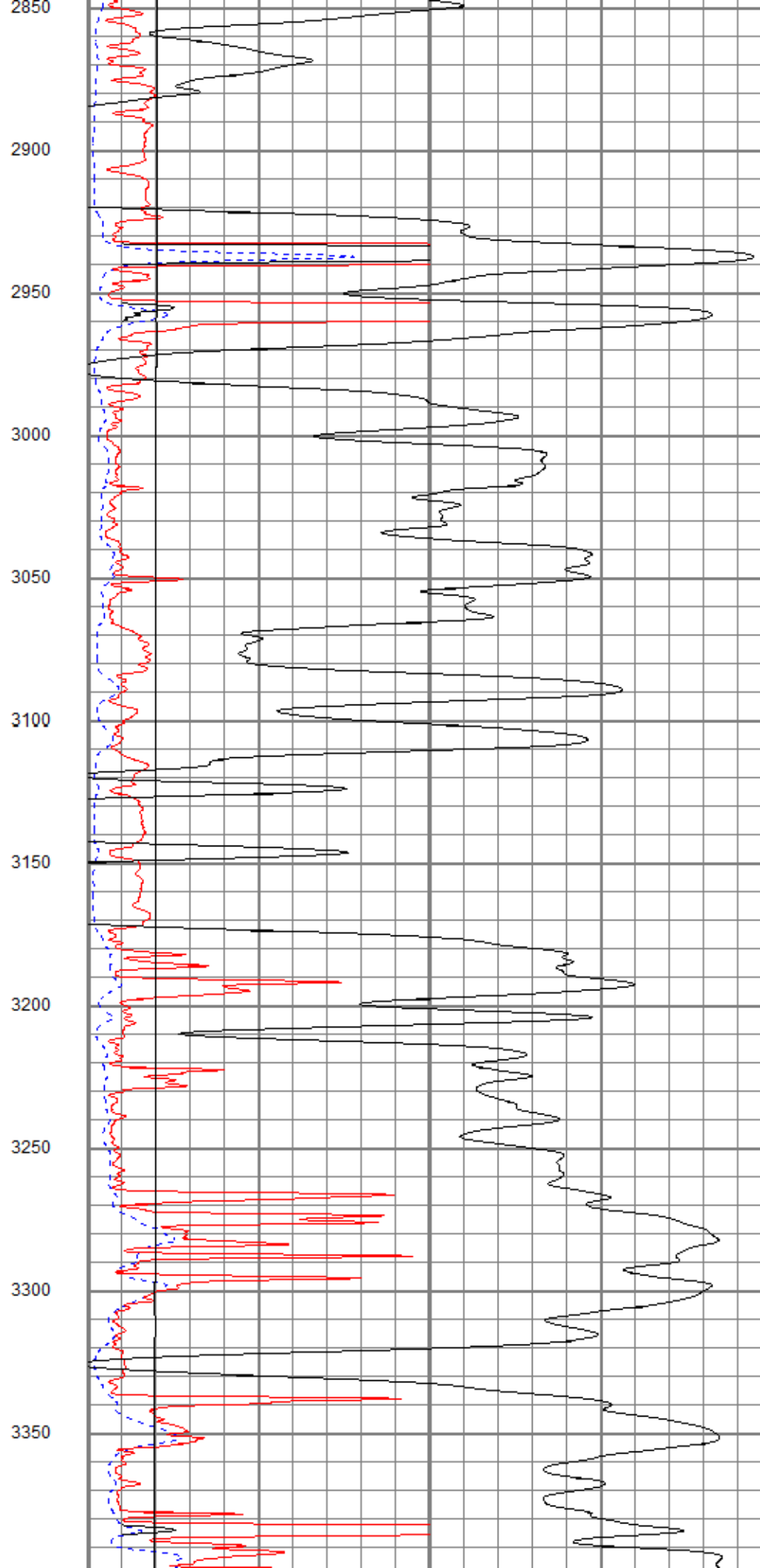
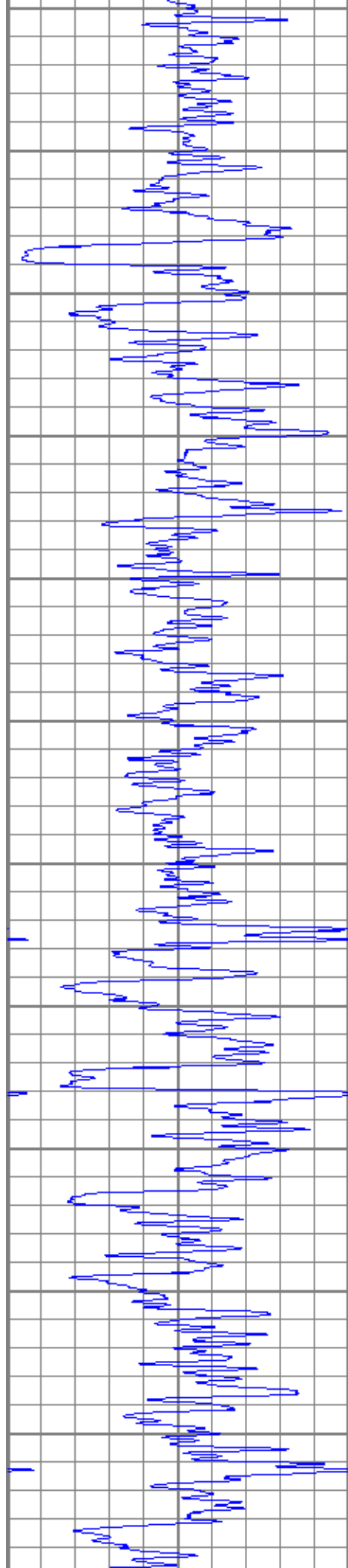


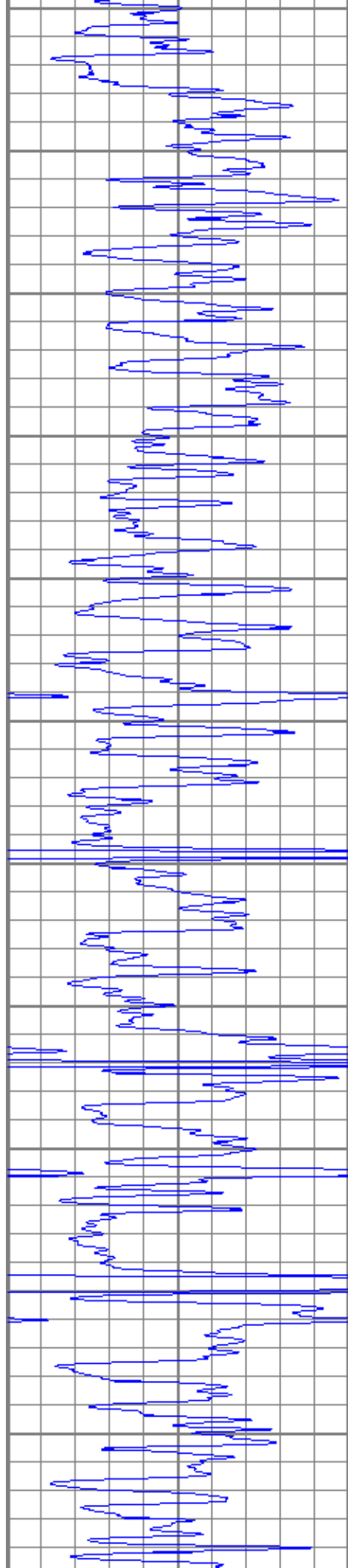


1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250

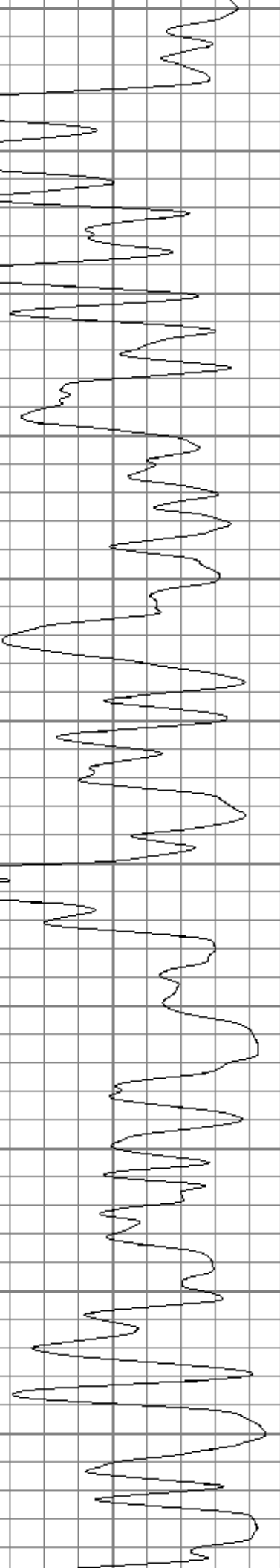
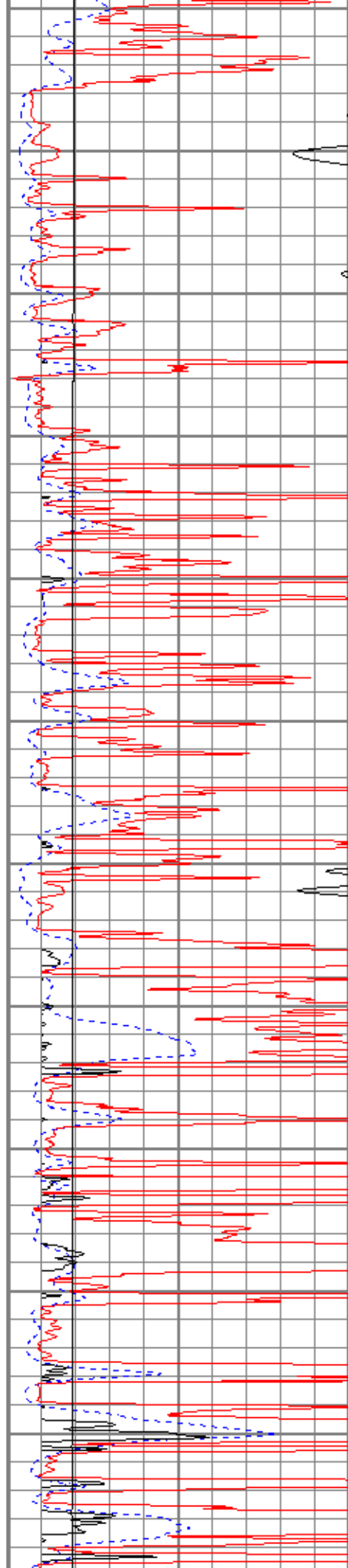


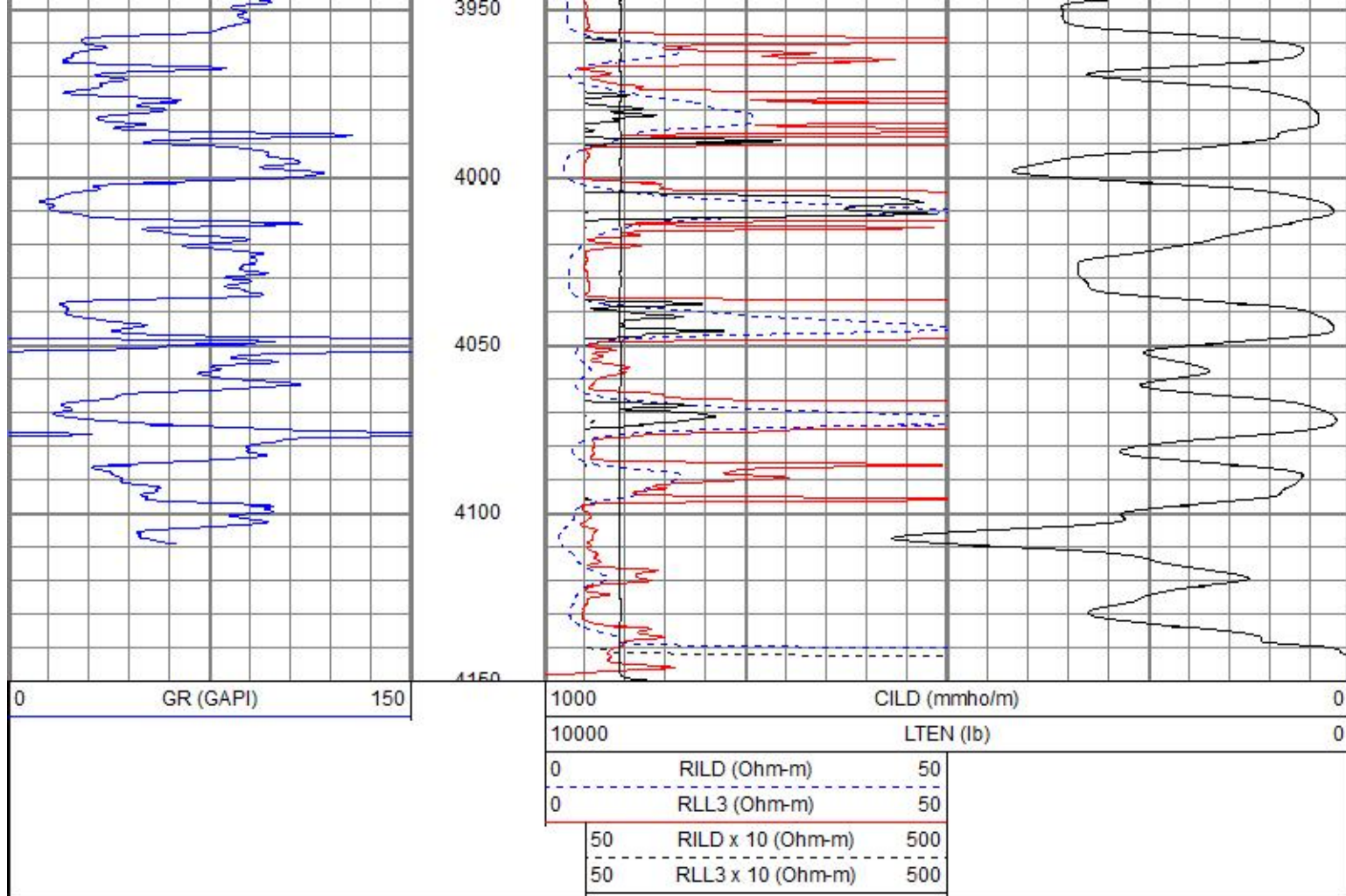






3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900

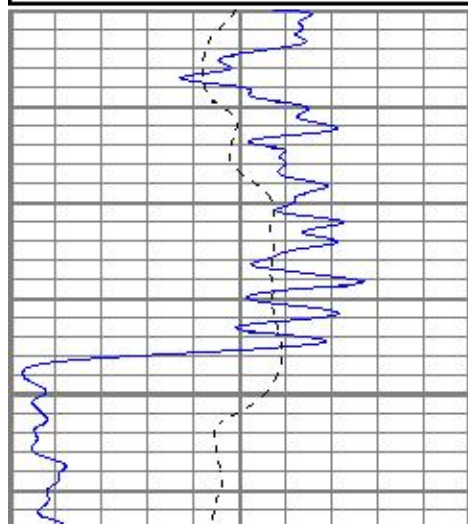




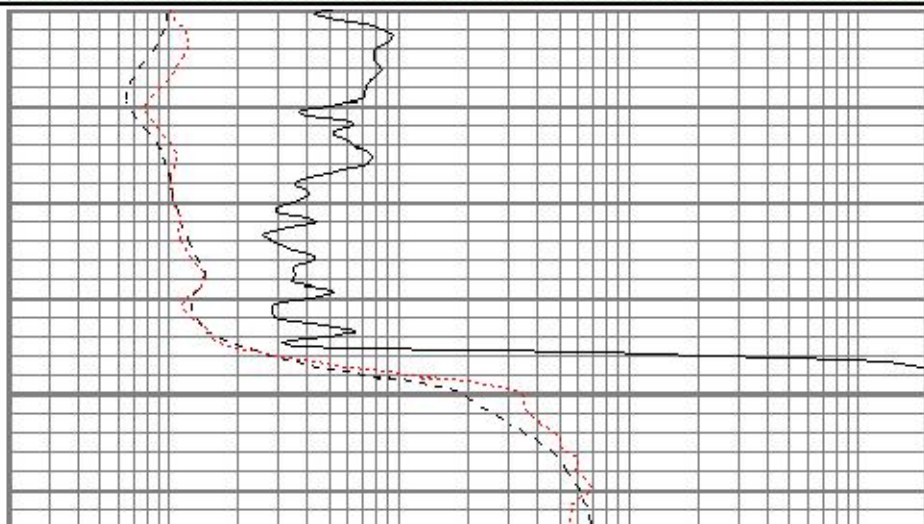
MAIN PASS

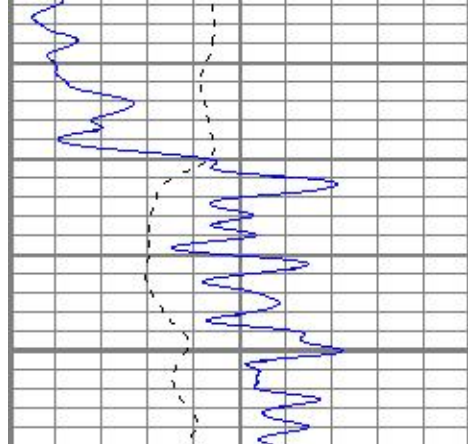
Database File owsshawikeoh.db
 Dataset Pathname pass3.1
 Presentation Format kdil
 Dataset Creation Sat Jan 13 21:24:25 2018
 Charted by Depth in Feet scaled 1:240

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



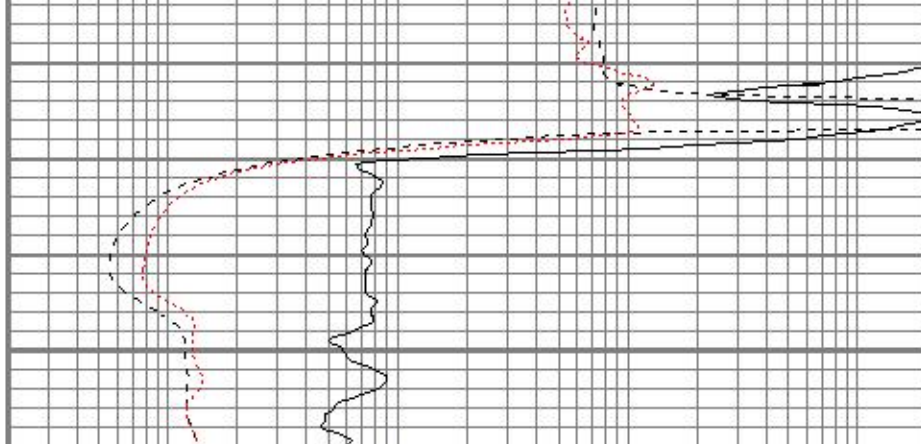
2550





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

2600



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

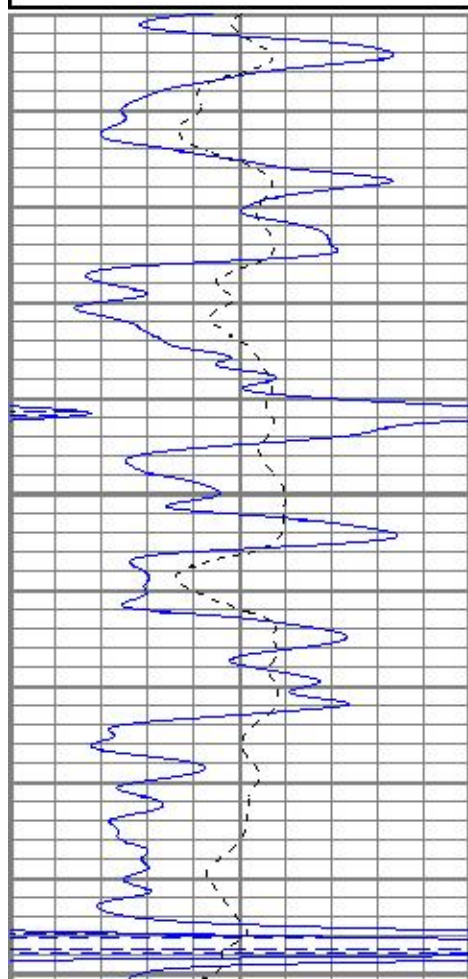


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 Presentation Format kdil
 Dataset Creation Sat Jan 13 21:24:25 2018
 Charted by Depth in Feet scaled 1:240

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

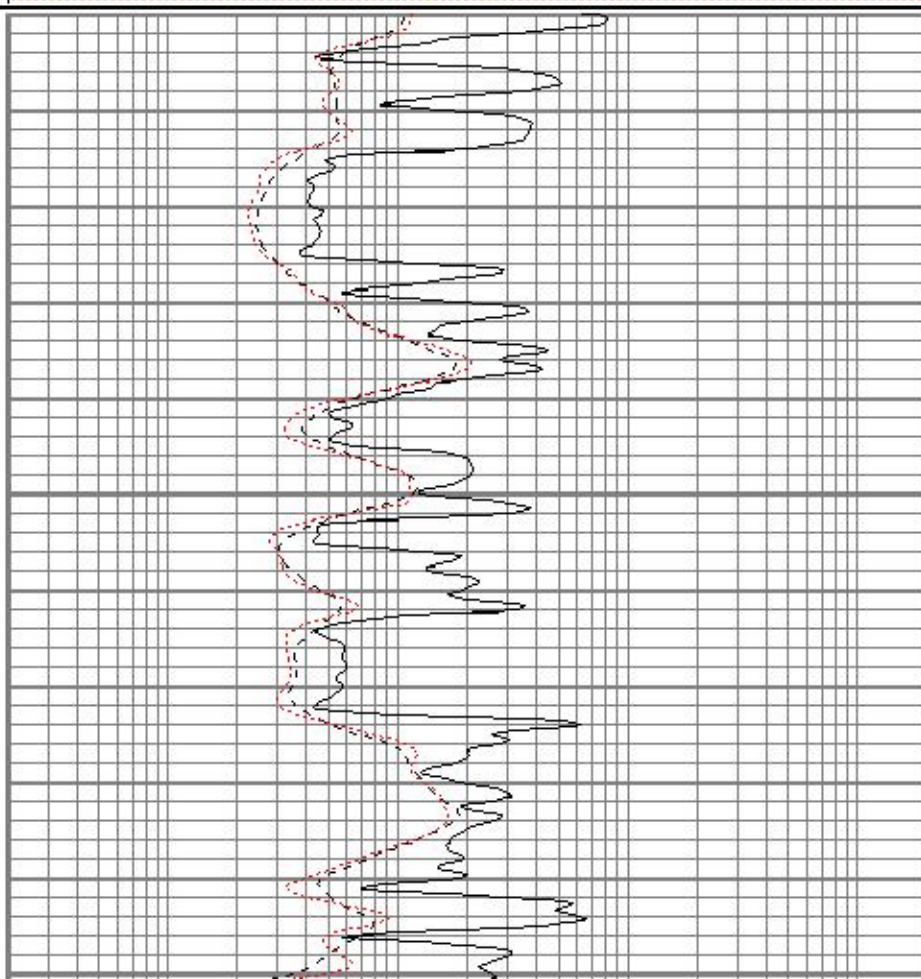
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

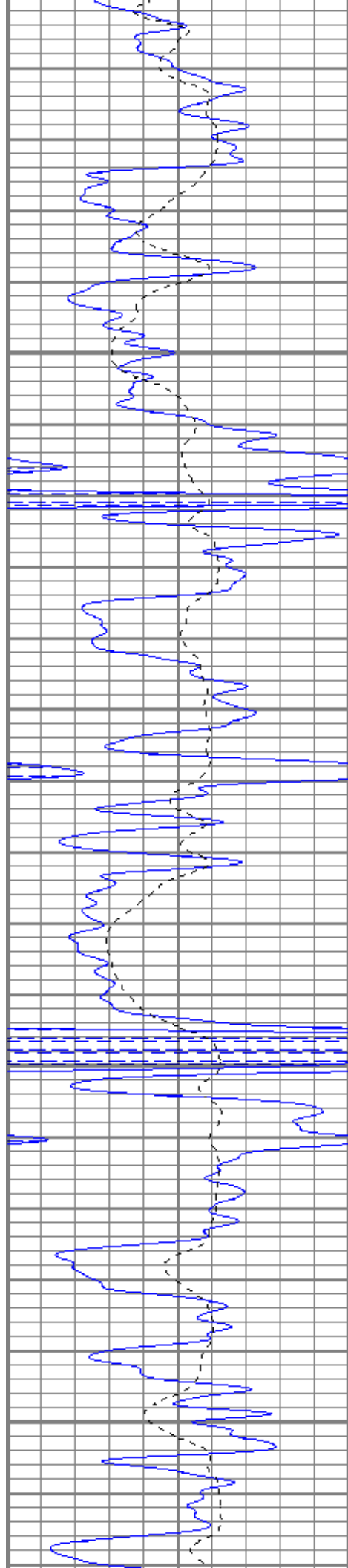


3500

3650

3700



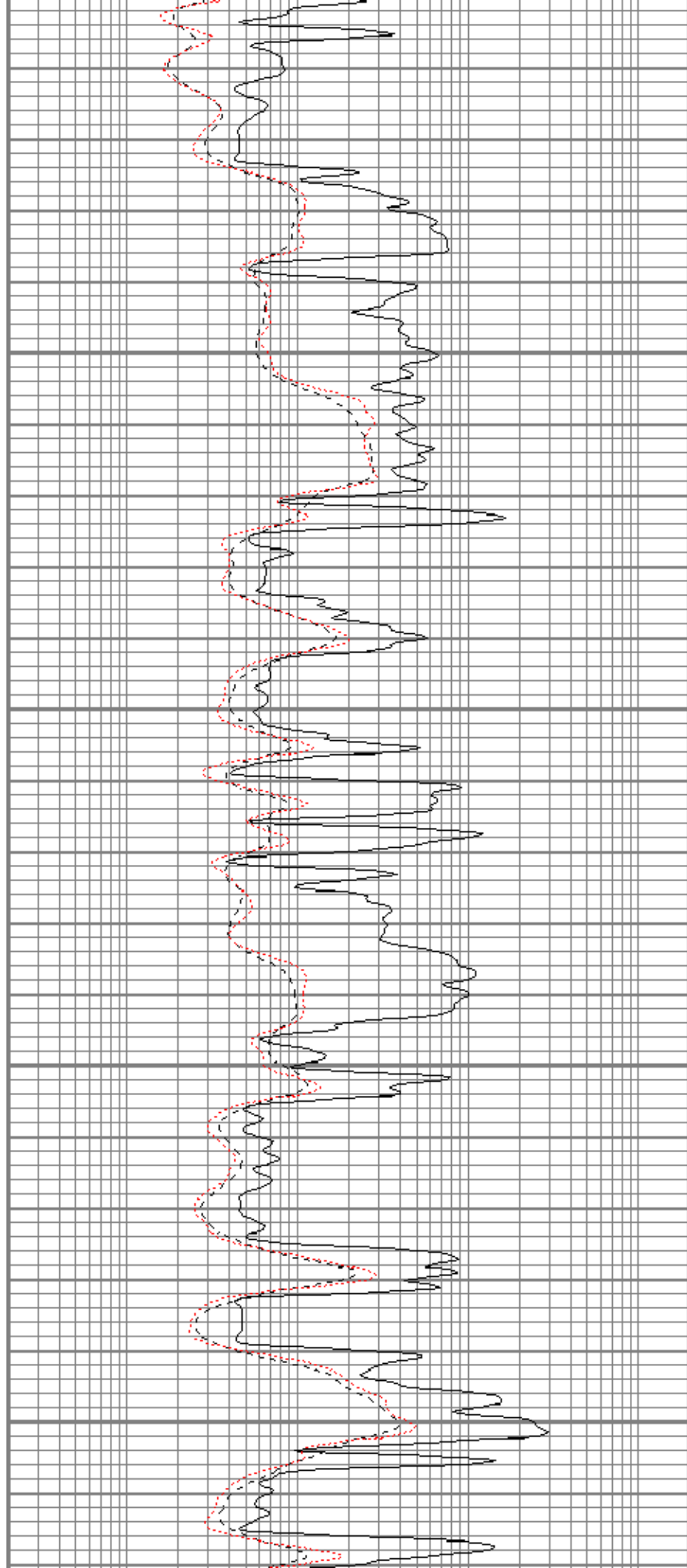


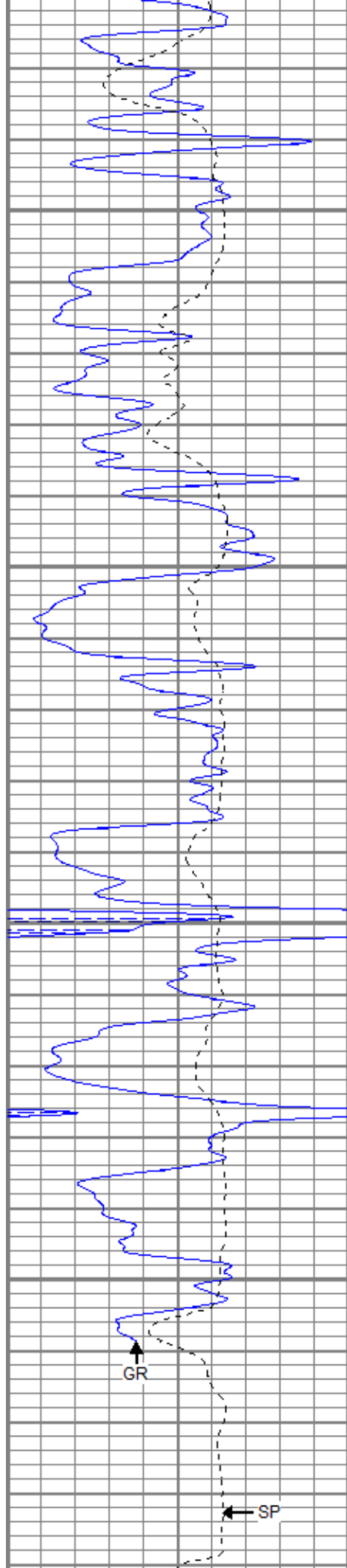
3750

3800

3850

3900





3950

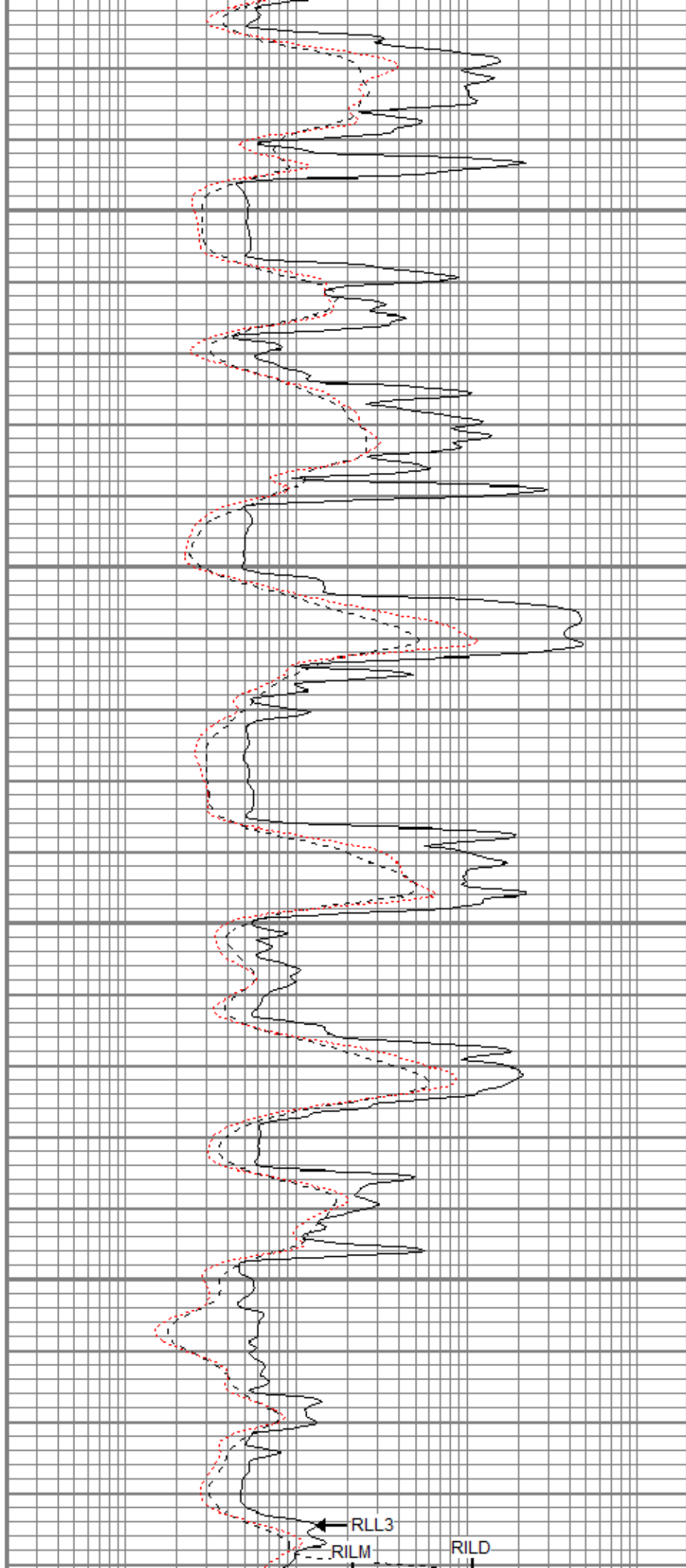
4000

4050

4100

GR

SP



RLL3

RILM

RILD

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

4150

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

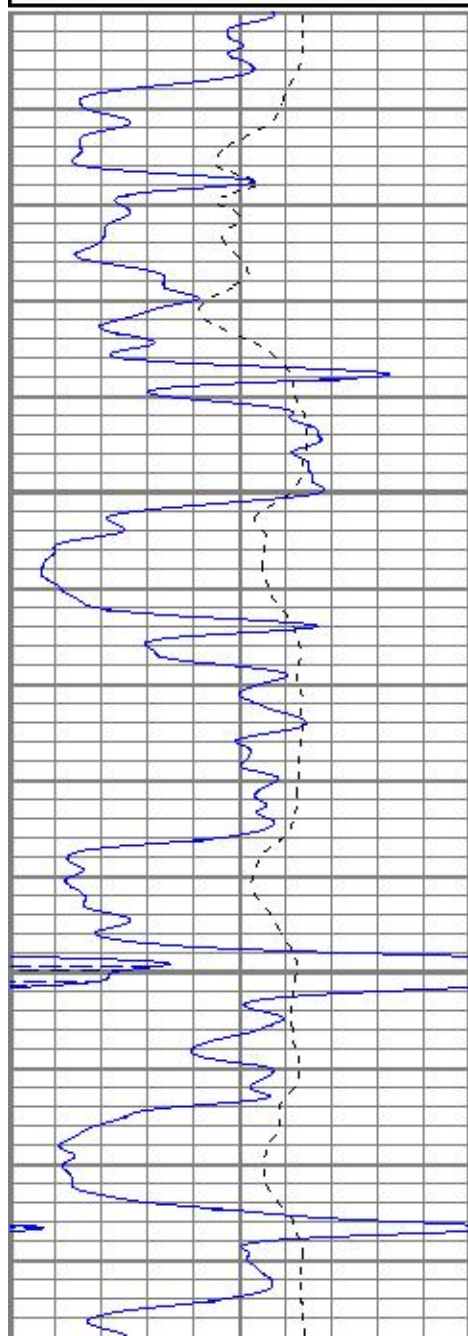


REPEAT SECTION

Database File owsshawikeoh.db
 Dataset Pathname pass1.1
 Presentation Format kdil
 Dataset Creation Sat Jan 13 21:17:07 2018
 Charted by Depth in Feet scaled 1:240

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

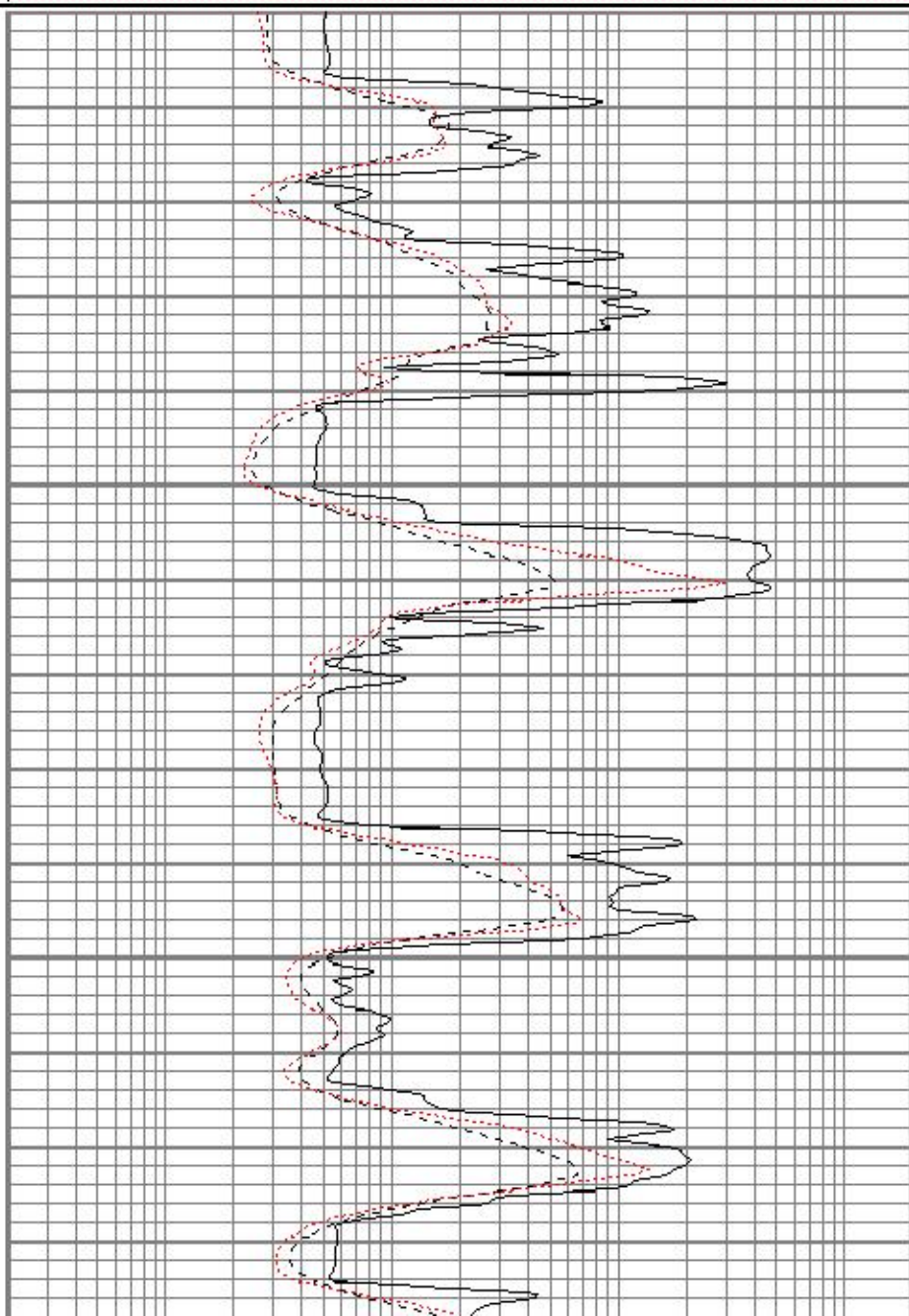
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

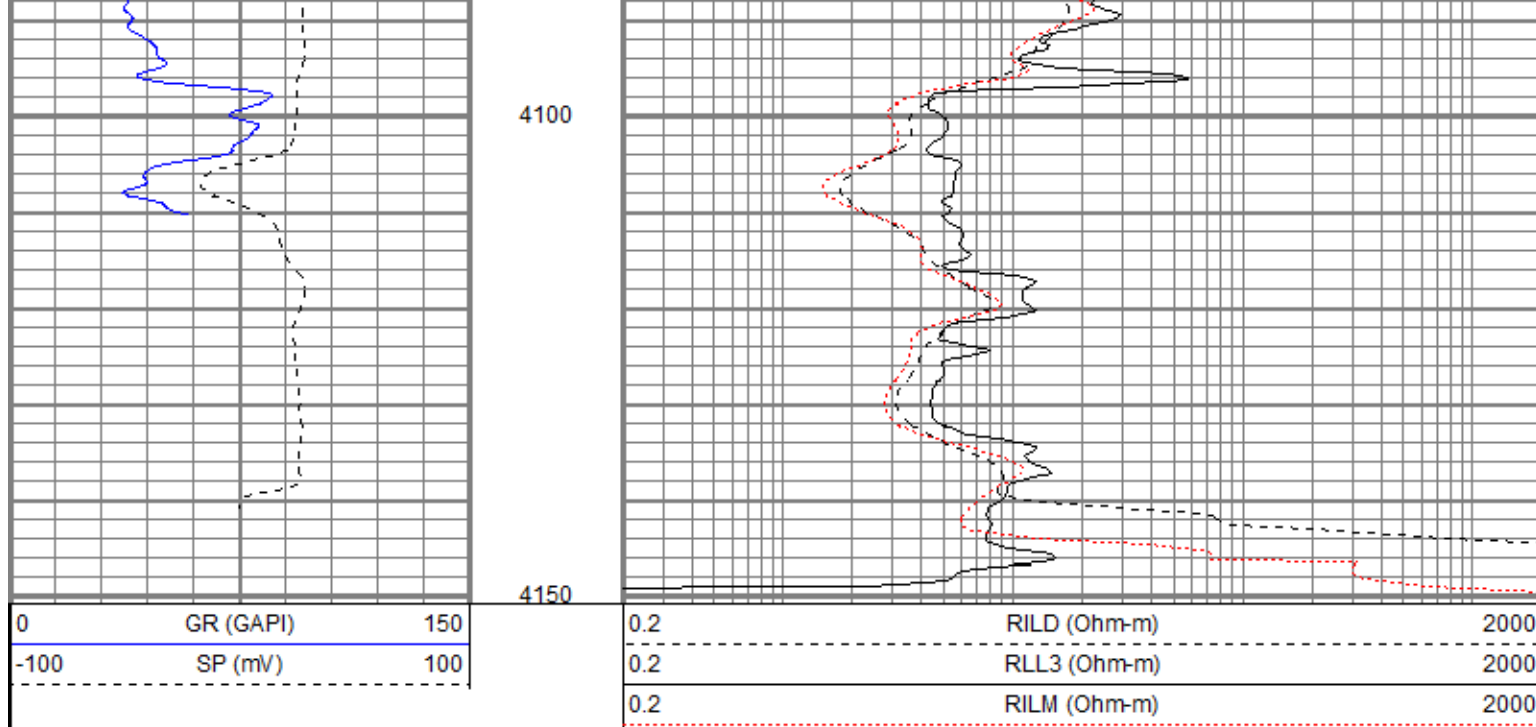


3950

4000

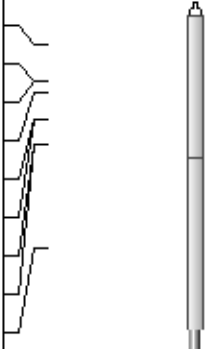
4050

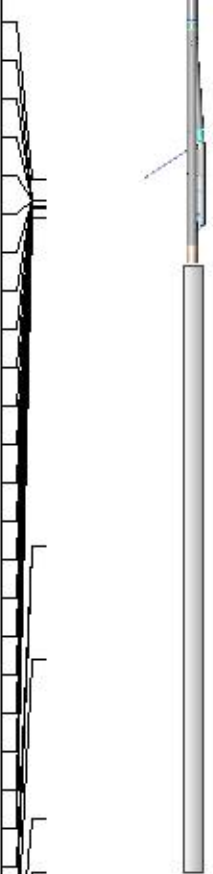




Calibration Report									
Database File	owsshawikeoh.db								
Dataset Pathname	pass3.1								
Dataset Creation	Sat Jan 13 21:24:25 2018								
Dual Induction Calibration Report									
Serial-Model:		1989-ADM							
Surface Cal Performed:		Tue Nov 21 16:20:38 2017							
Downhole Cal Performed:		Tue Nov 21 16:20:38 2017							
After Survey Verification Performed:		Tue Nov 21 16:20:38 2017							
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.014	0.657	V	0.000	400.000	mmho/m	622.290	-8.994	
Medium	0.013	0.748	V	0.000	550.000	mmho/m	748.454	-9.561	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.014	0.658	V	0.000	400.000	mmho/m	620.940	-8.605	
Medium	0.012	0.748	V	0.000	550.000	mmho/m	747.612	-9.133	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.000	0.000	mmho/m	-0.371	400.499	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	-0.418	550.202	mmho/m	1.000	0.000	
Shallow	2.485	0.025	V	500.000	2.000	Ohm-m	202.442	-3.068	
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:	2017				
Tool Model:	lithogearhart				
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				
Offset:	0.00				
Delta Spacing	1				
Inclinometer Calibration Report					
Performed:	Wed Dec 06 22:31:06 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
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)
GR	38.31		CHD-STD	0.50	1.69	1.00
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		NEU-lithogearhart (2017)	5.65	3.50	85.00
GRD	35.06					
TEMP	35.06					
NEU	31.70					

LStat	22.54		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00			
LS8	21.88								
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	Dataset: owsshawikeoh.db: field/well/run1/pass3.1 Total length: 39.73 ft Total weight: 746.00 lb O.D.: 4.00 in							
RLL3	1.70								
TR_Mon	0.00								