



DUAL INDUCTION LOG

Company John O' Farmer, Inc.

Well Nuss C#1

Field Reed

County Ellis

State KS

Location:

API #: 15 051 26887

920' FSL & 1585' FEL

Other Services
CDNL
ML

SEC 32 TWP 12S RGE 17W

Elevation

Permanent Datum Ground Level Elevation 2061'
Log Measured From KB 8' AGL
Drilling Measured From KB

K.B. 2069'
D.F. 2068'
G.L. 2061'

Date

8/28/17

Run Number

One

Depth Driller

3680'

Depth Logger

3683'

Bottom Logged Interval

3681'

Top Log Interval

200'

Casing Driller

8 5/8" @ 220'

Casing Logger

220'

Bit Size

7 7/8"

Type Fluid in Hole

Chemical

Density / Viscosity

9.14/9

pH / Fluid Loss

10.0/8.8

Source of Sample

Calculated

Rm @ Meas. Temp

0.63@84degf

Rmf @ Meas. Temp

0.50@84degf

Rmc @ Meas. Temp

0.81@84degf

Source of Rmf / Rmc

Calculated

Rm @ BHT

0.44@108degf

Time Circulation Stopped

1:00 P.M.

Time Logger on Bottom

4:30 pm

Maximum Recorded Temperature

108degf

Equipment Number

T173

Location

Hays, KS

Recorded By

L. Smith

Witnessed By

Mr. Austin Klaus

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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

North on Toulon Ave. to Emmeram Rd.,
Then East 3/4 mi. on Emmeram Rd.,
North into location

Thank you for using Gemini Wireline
785-625-1182



Main Pass

Database File jofnussc#1oh.db
Dataset Pathname pass2
Presentation Format kdillinn
Dataset Creation Mon Aug 28 17:13:05 2017
Charted by Depth in Feet scaled 1:600

0 GR (GAPI) 150

1000 CILD (mmho/m) 0

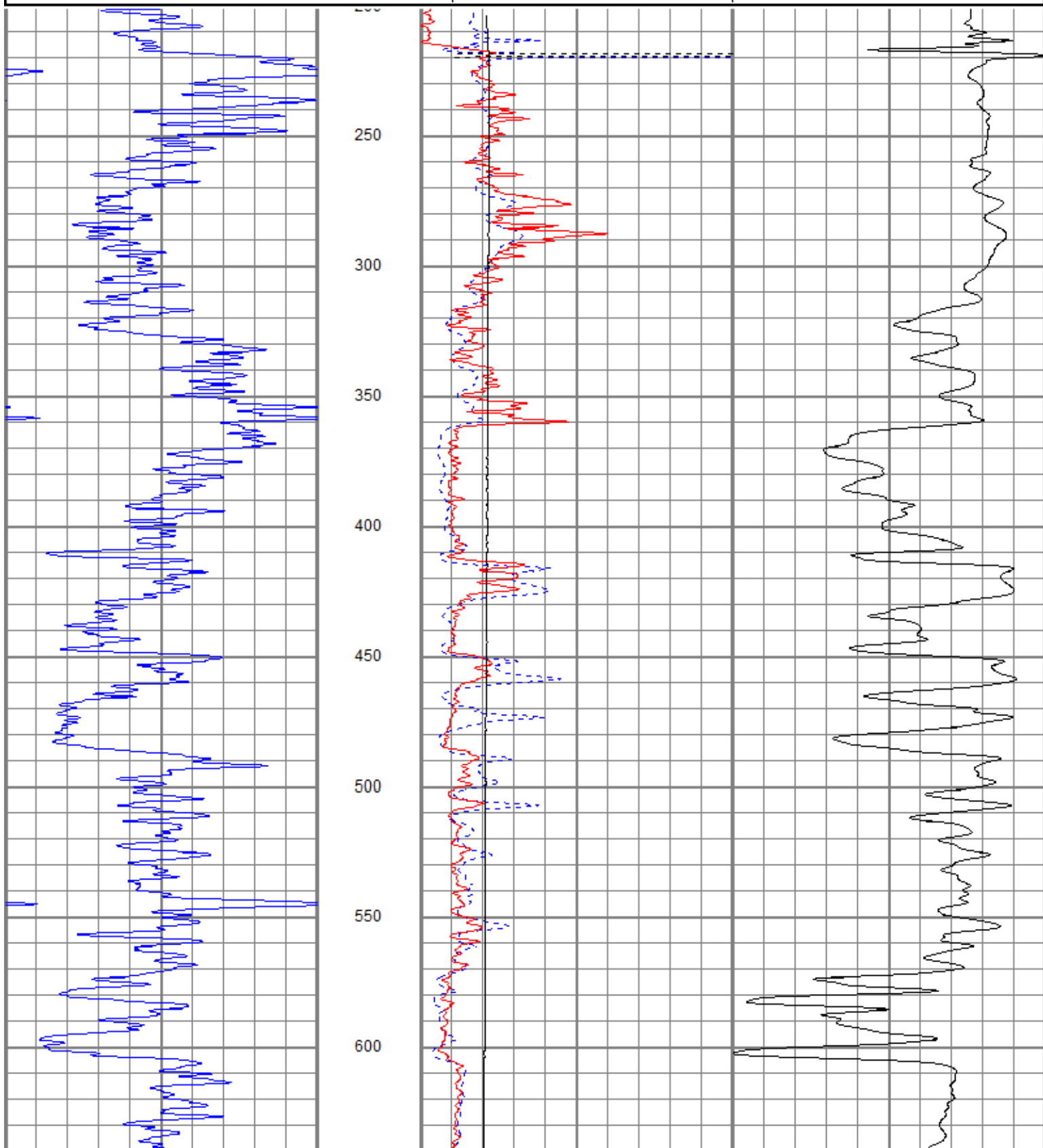
10000 LTEN (lb) 0

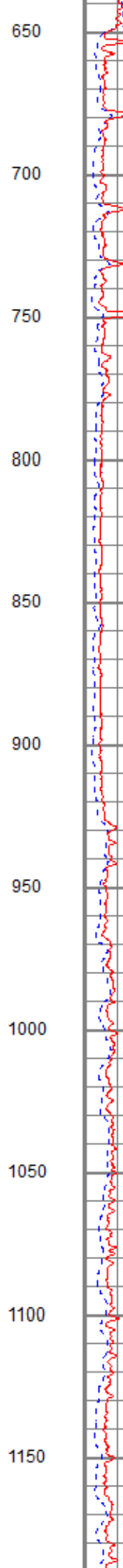
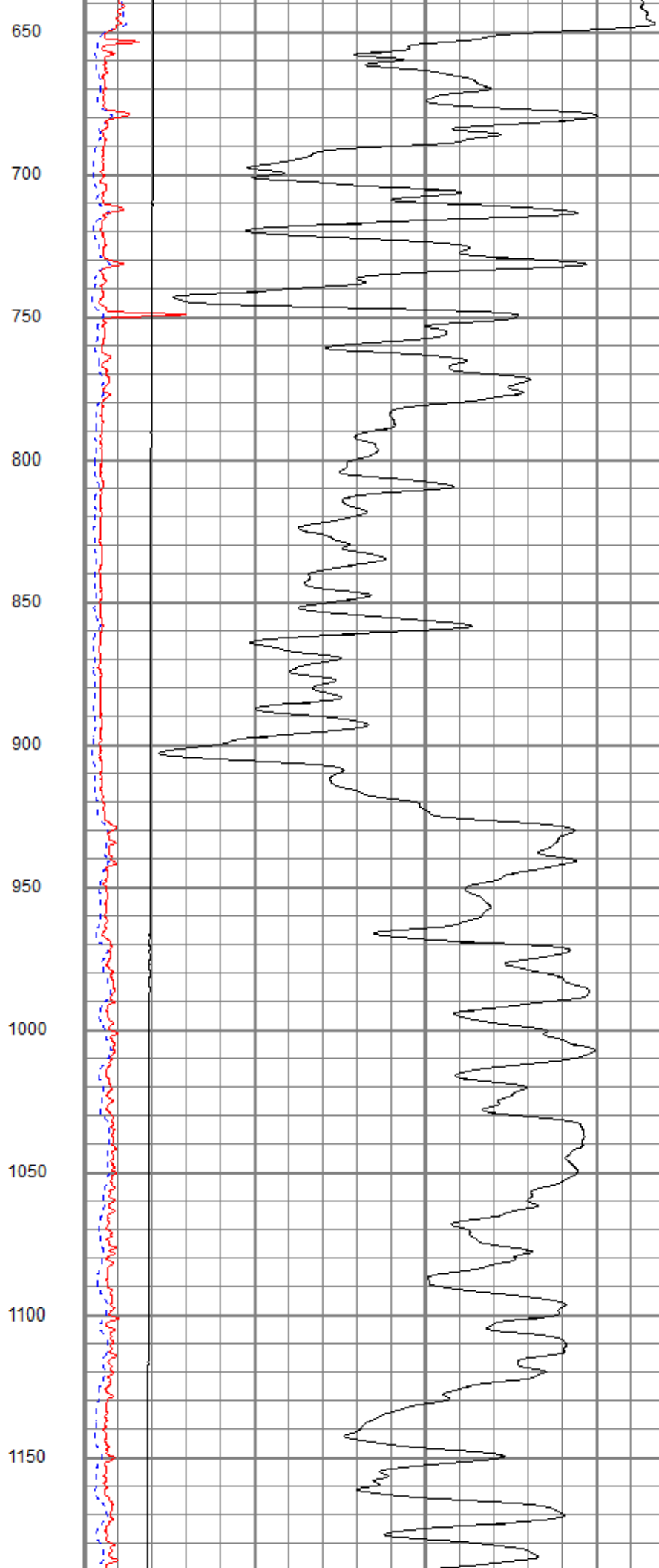
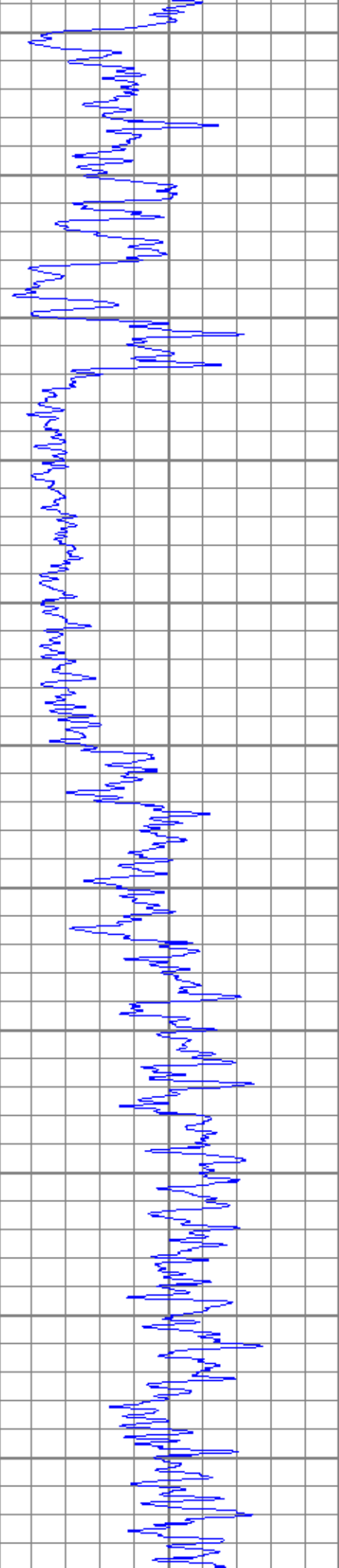
0 RILD (Ohm-m) 50

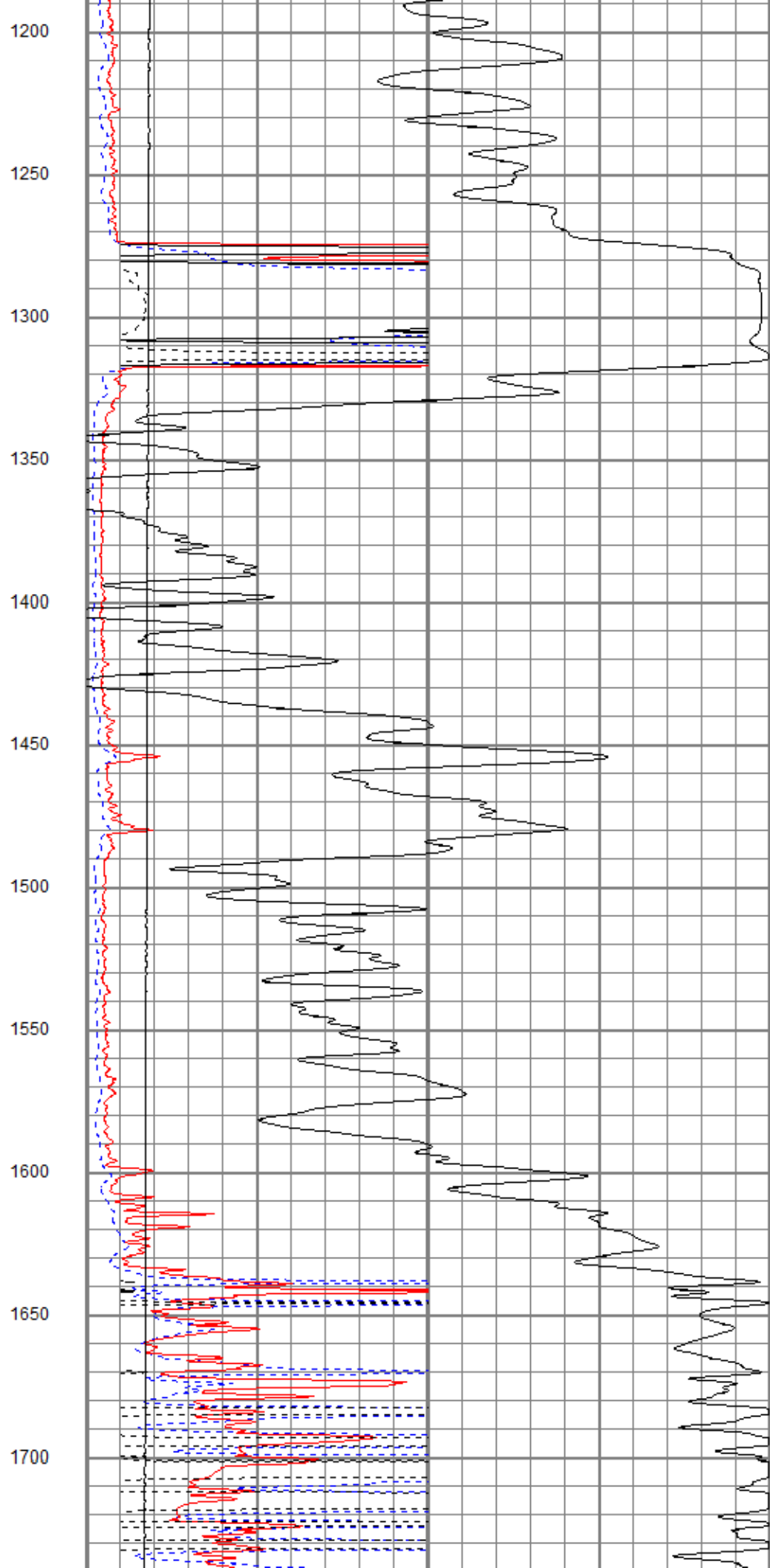
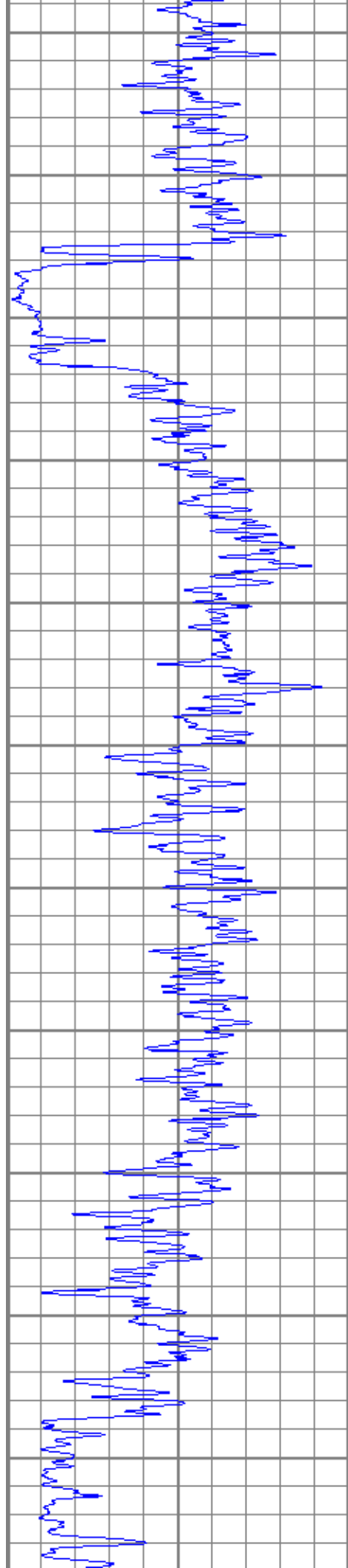
0 RLL3 (Ohm-m) 50

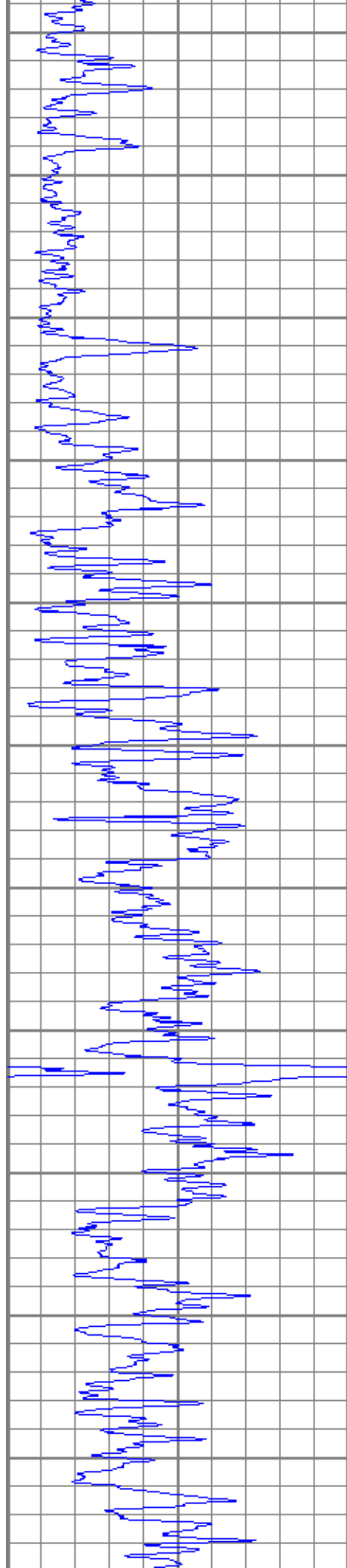
50 RILD x 10 (Ohm-m) 500

50 RLL3 x 10 (Ohm-m) 500

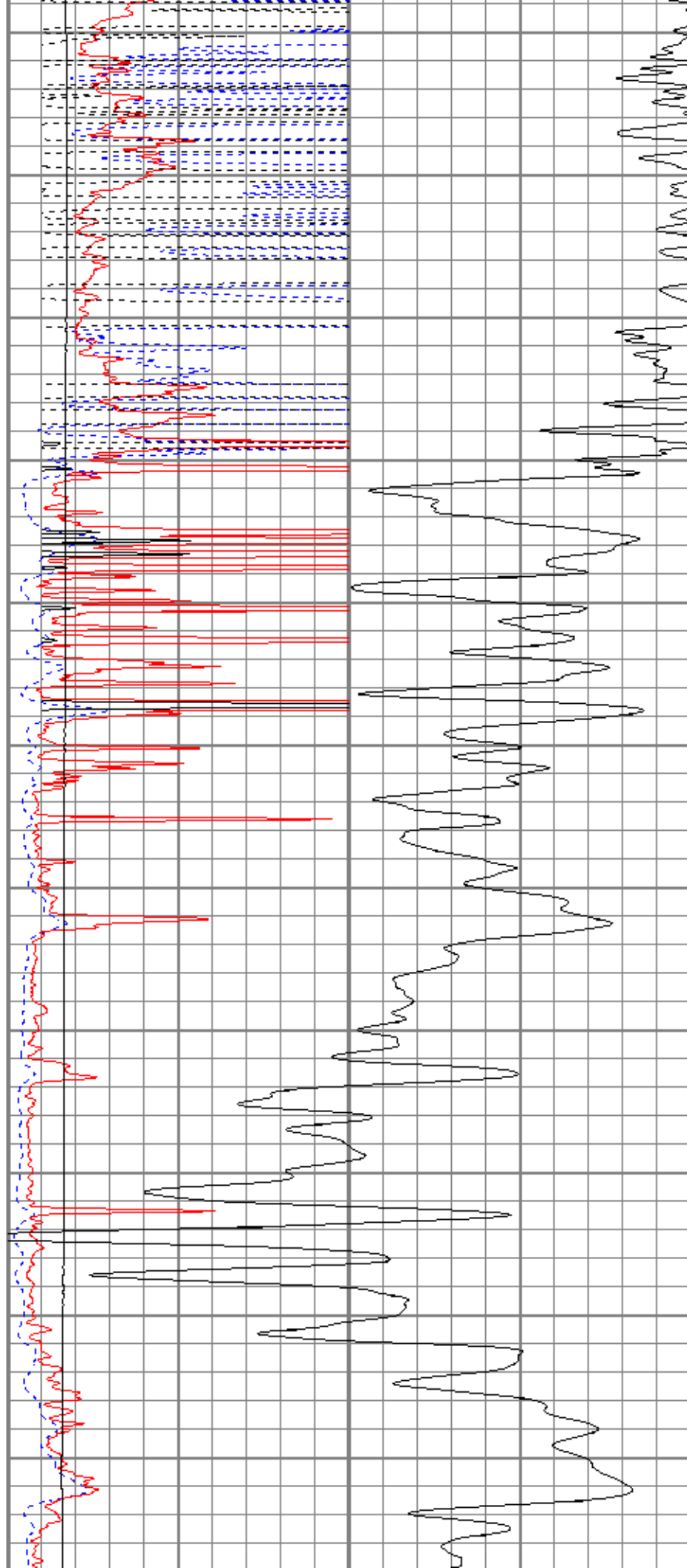


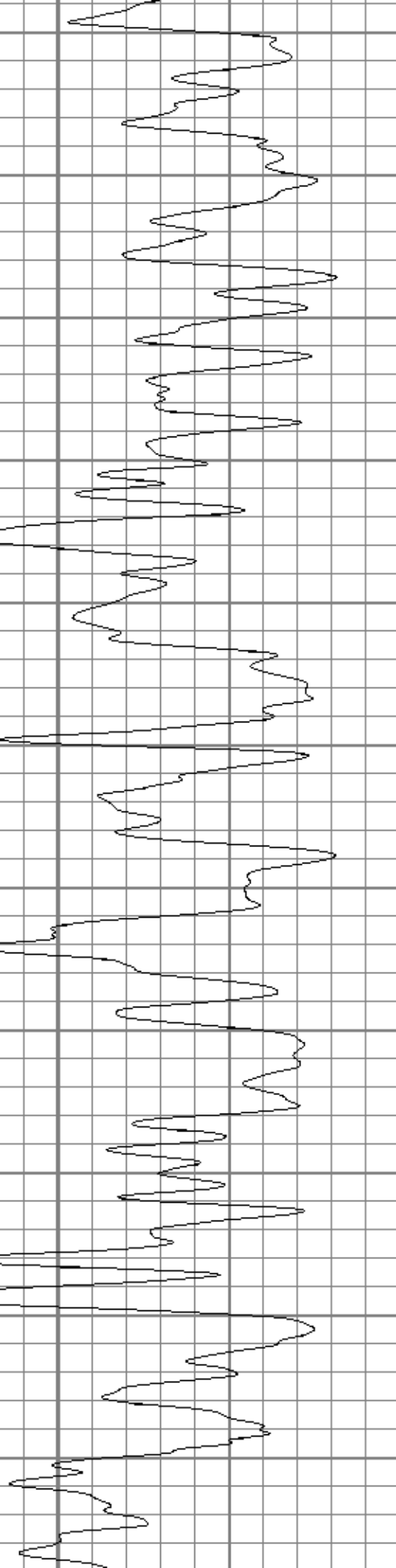
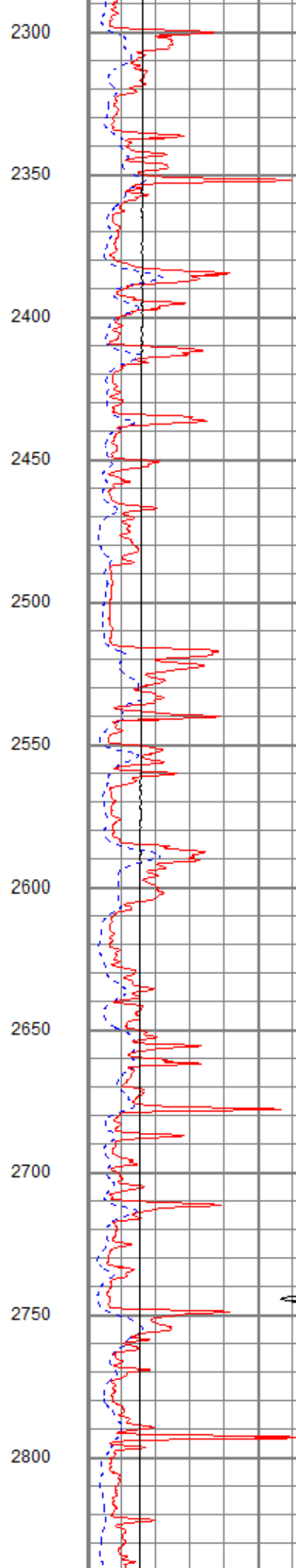
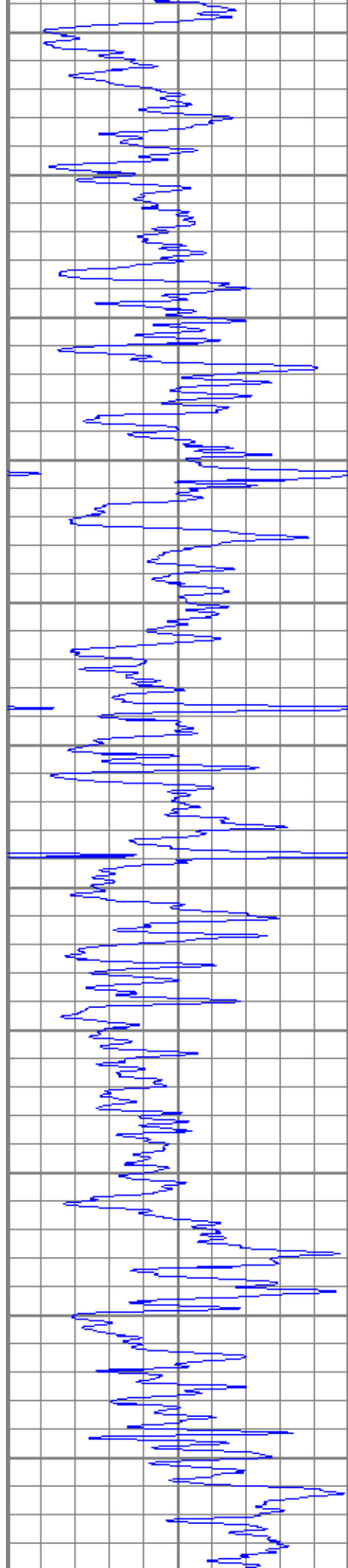


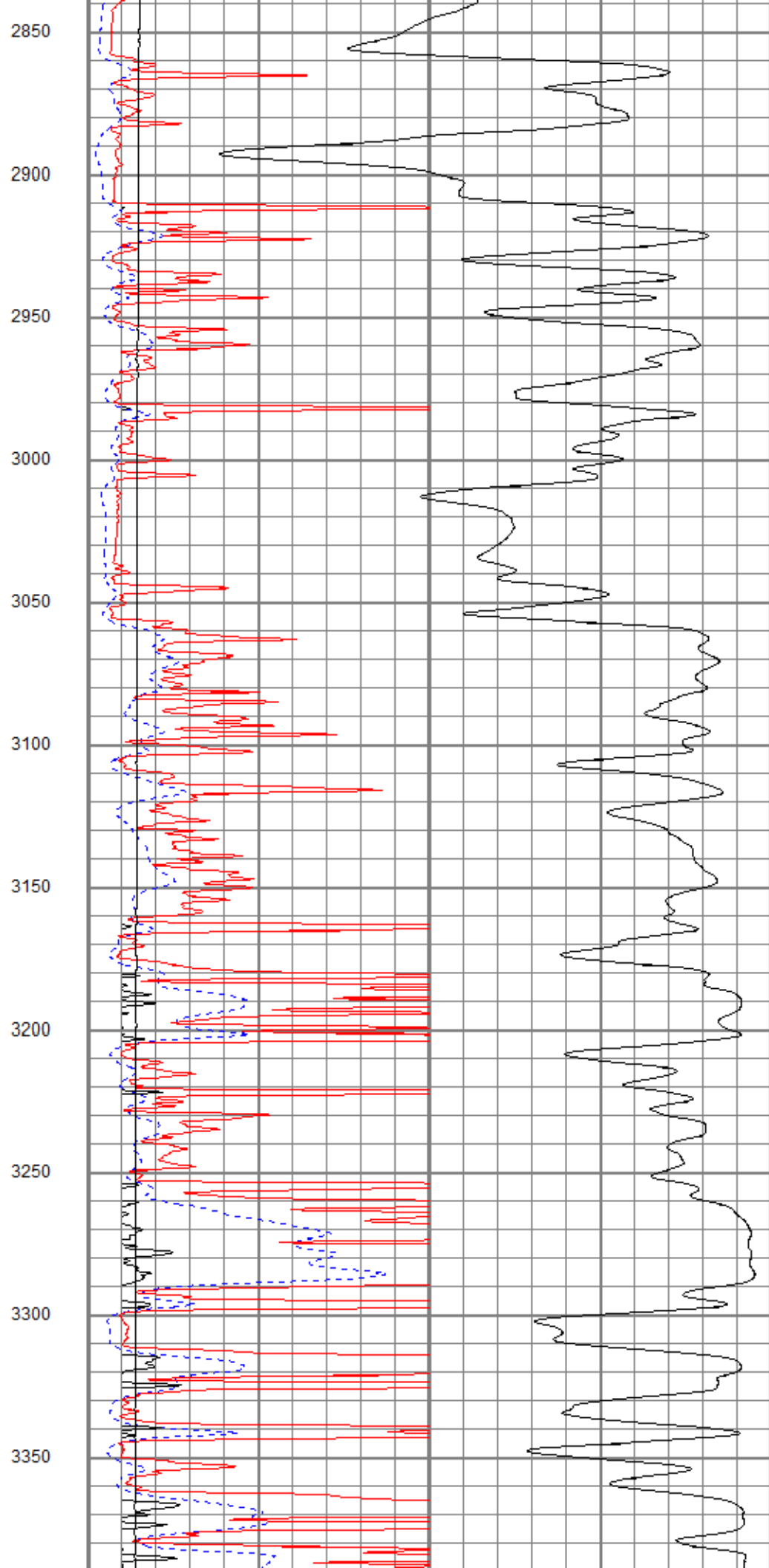
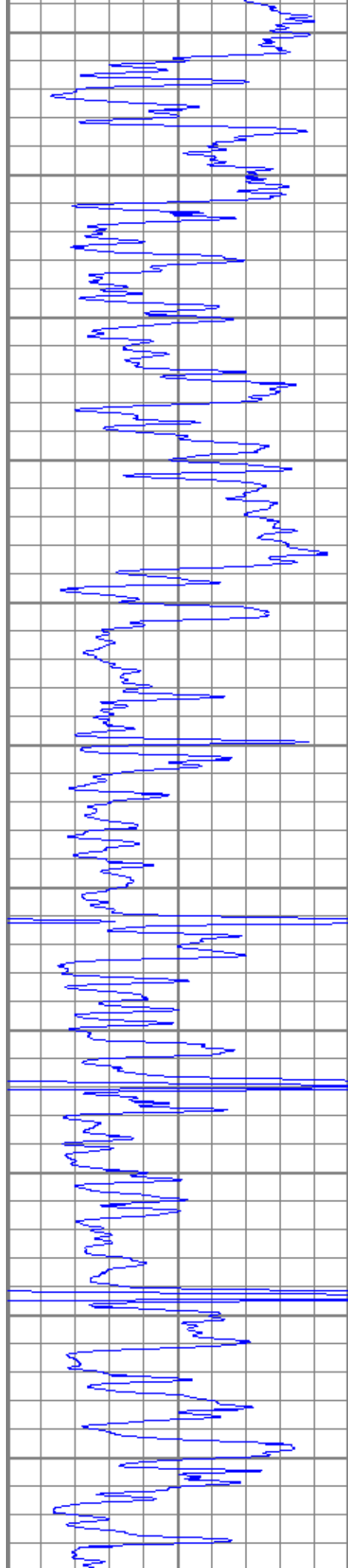


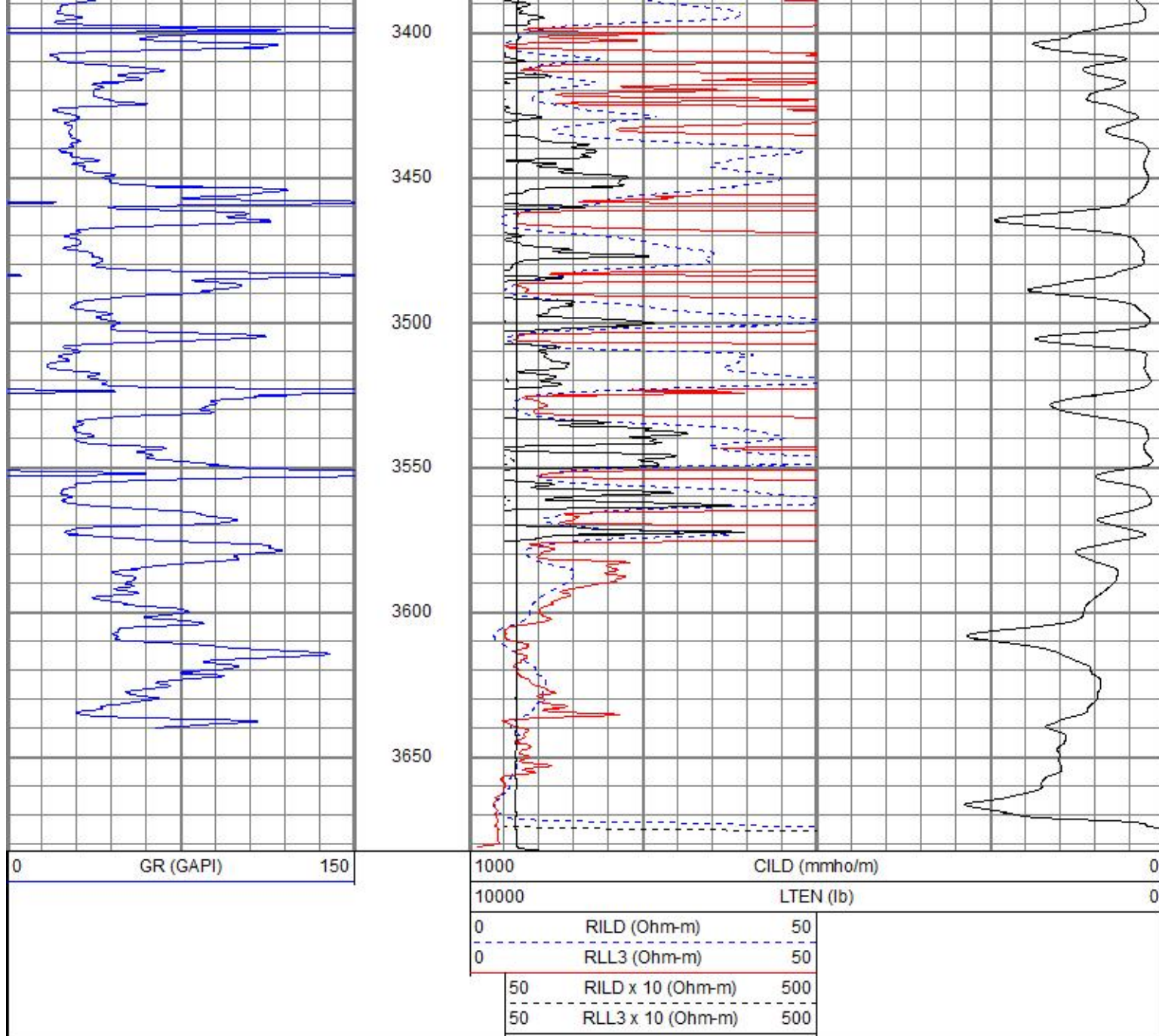


1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250





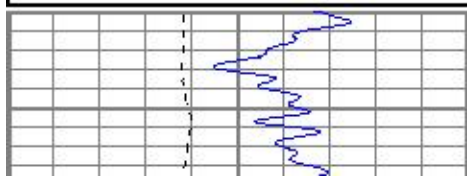




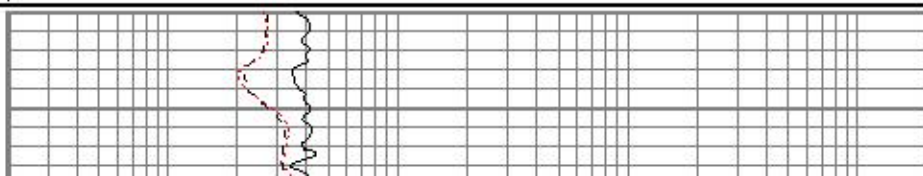
Main Pass

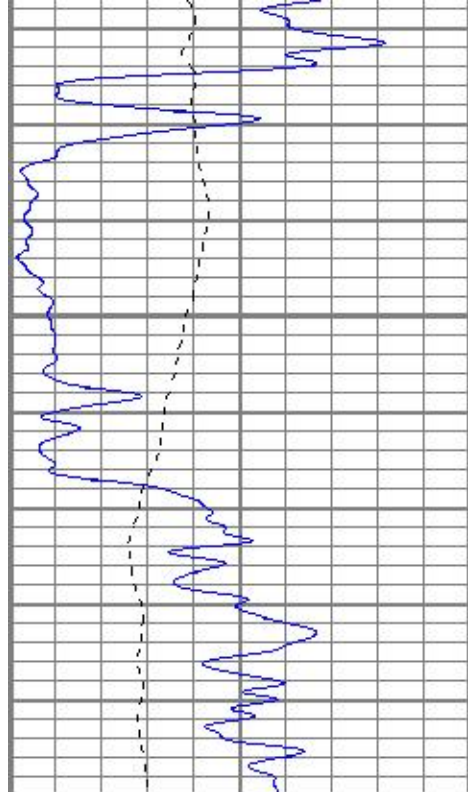
Database File jofnussc#1oh.db
 Dataset Pathname pass2
 Presentation Format kdil
 Dataset Creation Mon Aug 28 17:13:05 2017
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000



1250

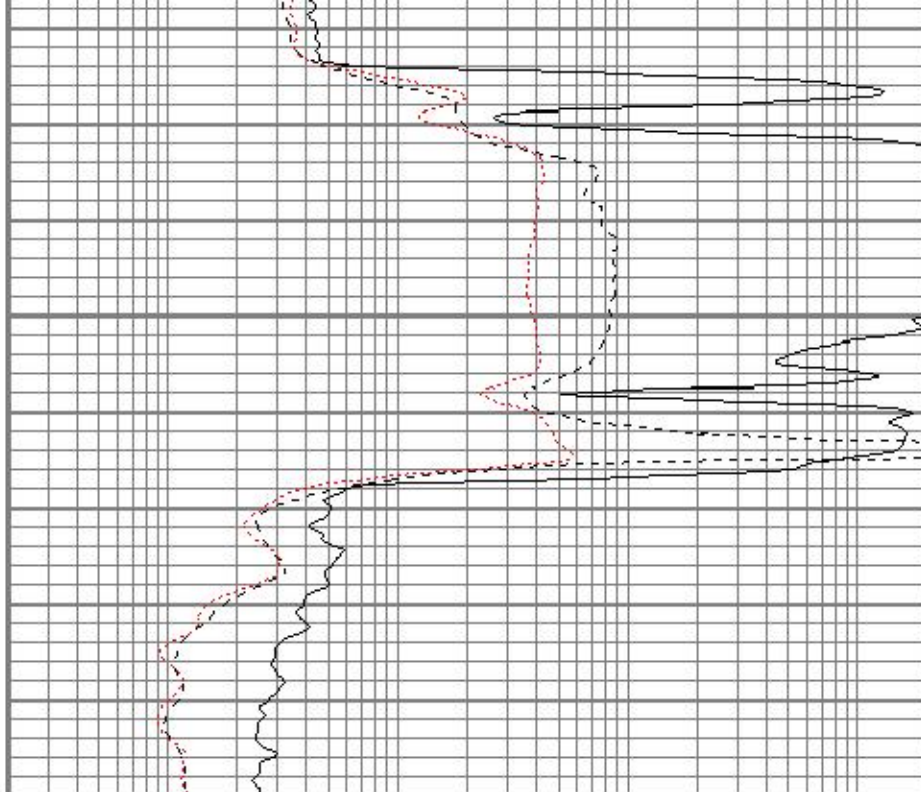




1300

1350

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

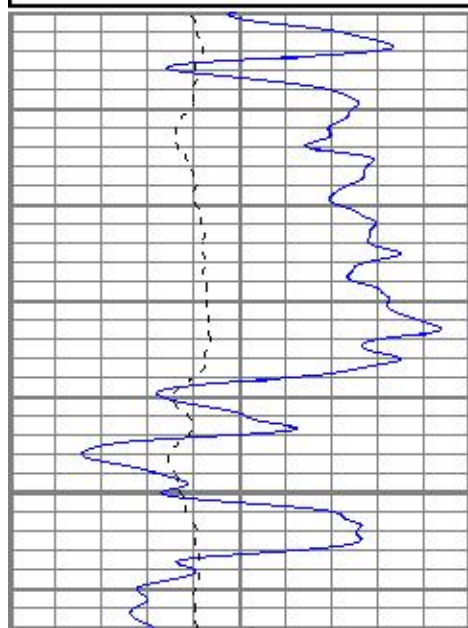


Main Pass

Database File jofnussc#1oh.db
 Dataset Pathname pass2
 Presentation Format kdil
 Dataset Creation Mon Aug 28 17:13:05 2017
 Charted by Depth in Feet scaled 1:240

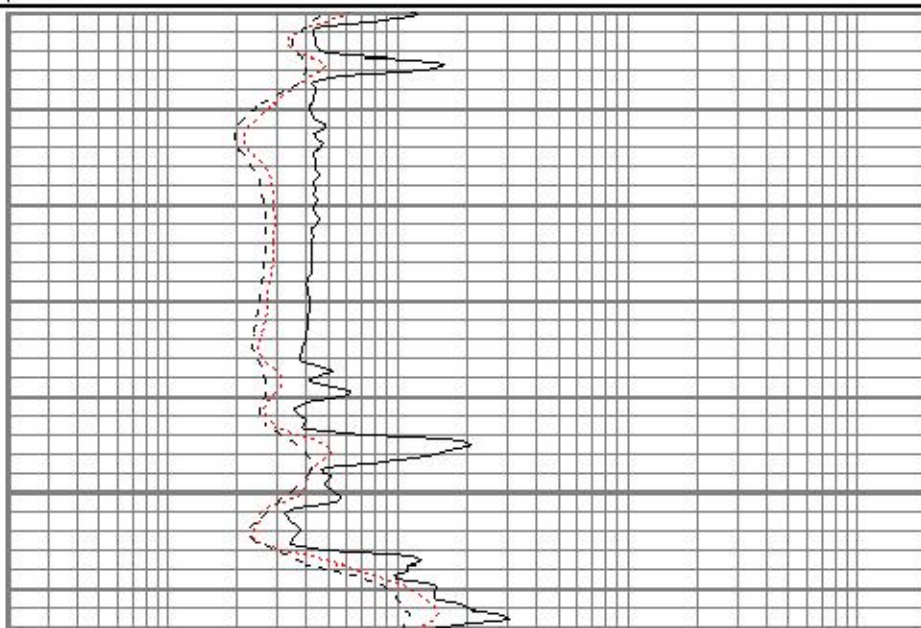
0	GR (GAPI)	150
-100	SP (mV)	100

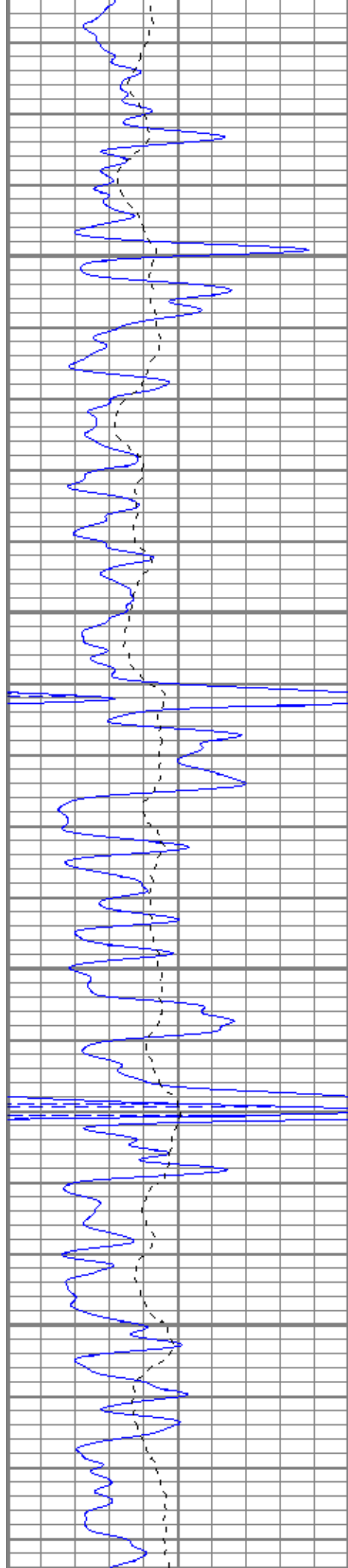
0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000



3000

3050



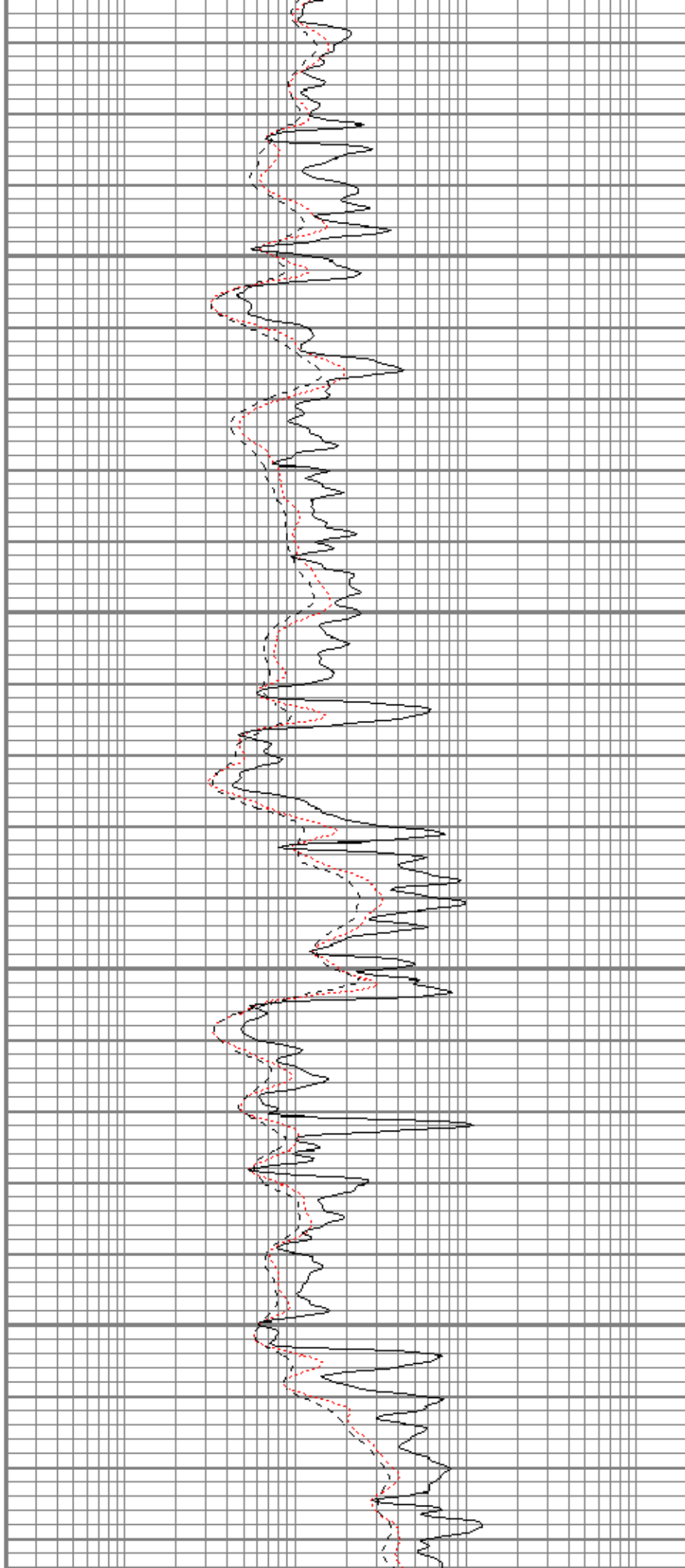


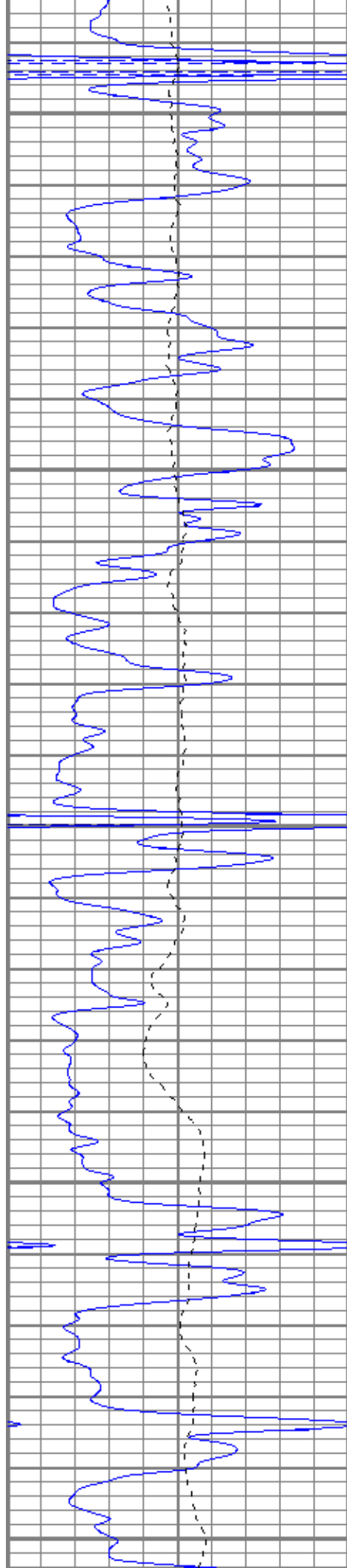
3100

3150

3200

3250





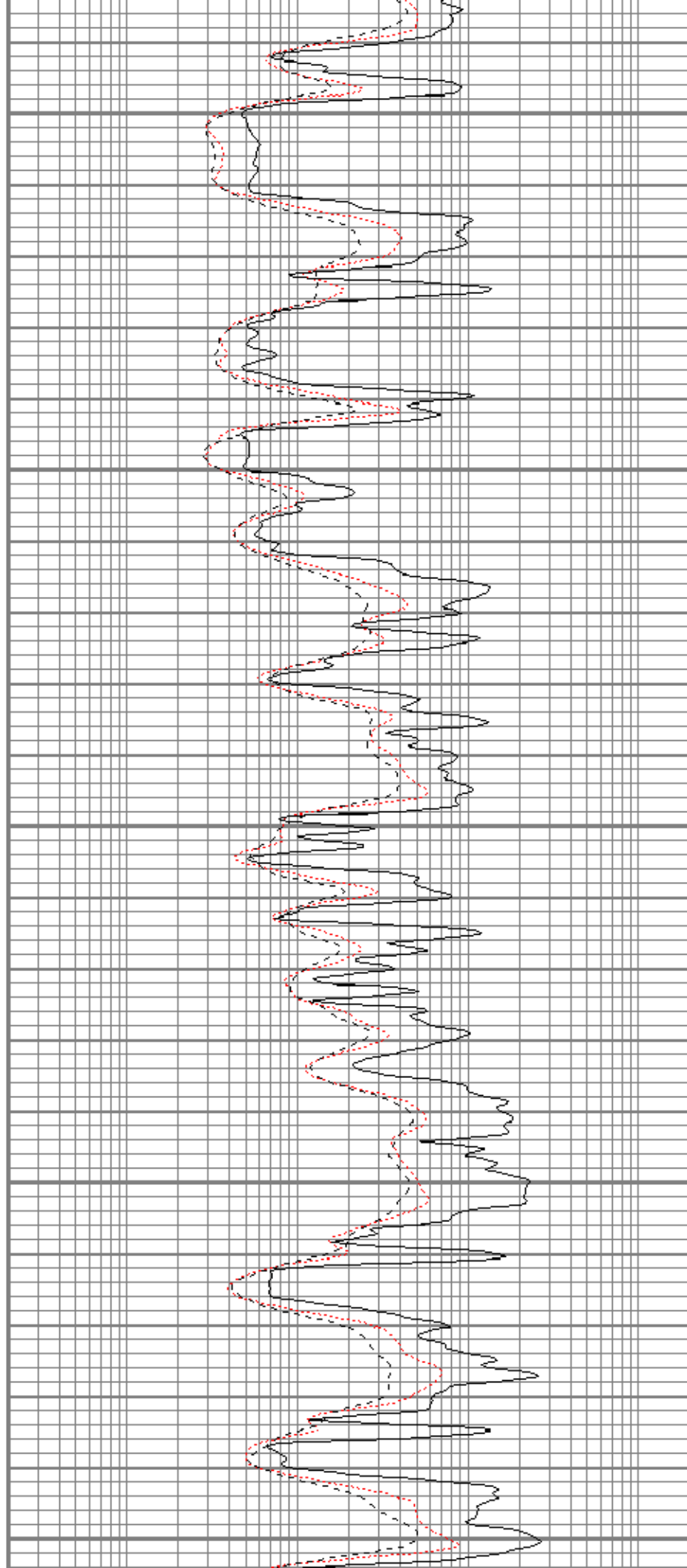
3300

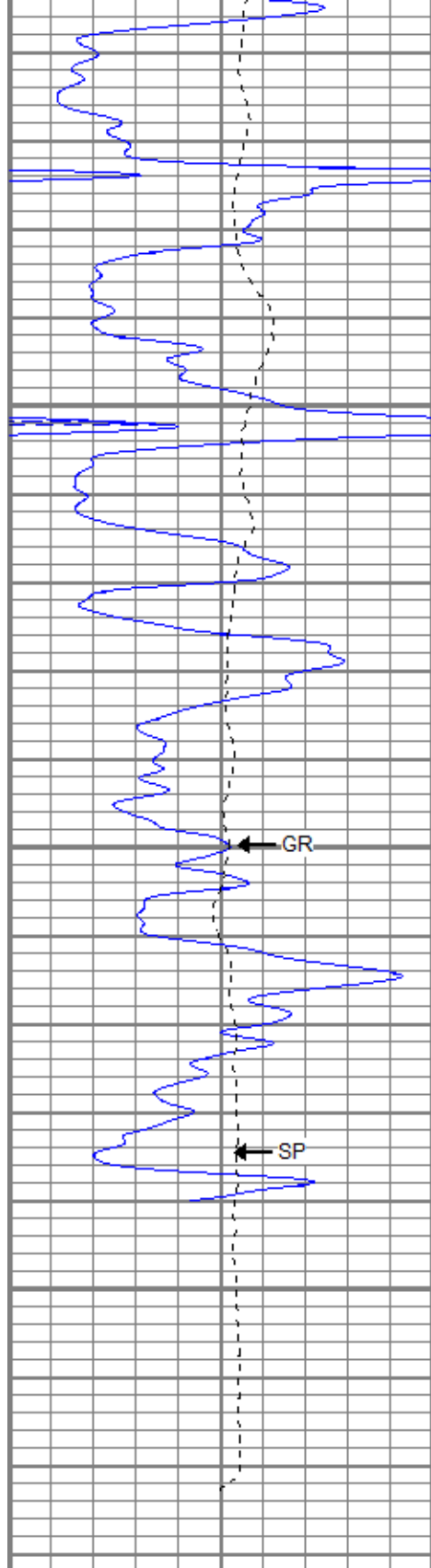
3350

3400

3450

3500



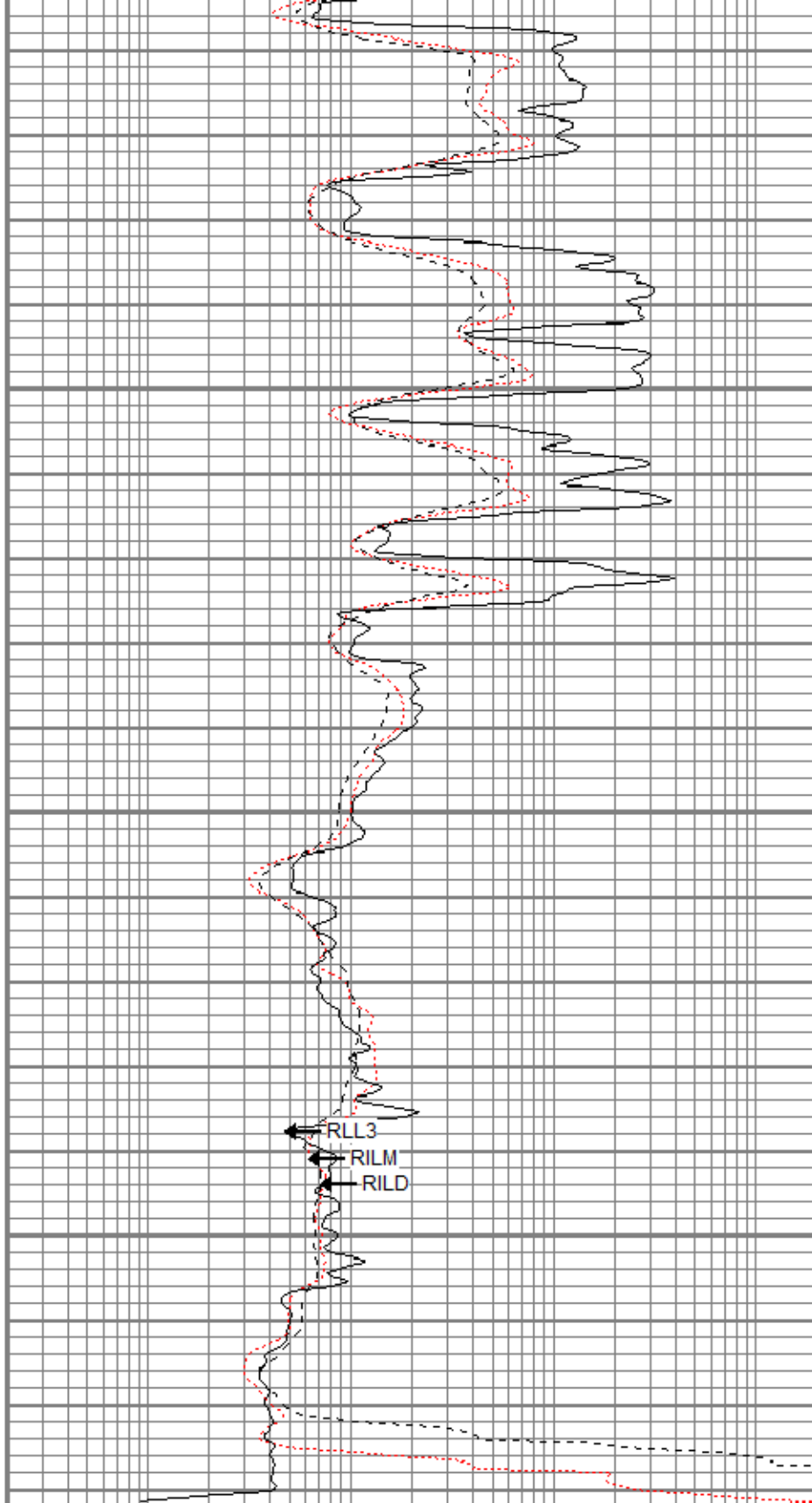


3550

3600

3650

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

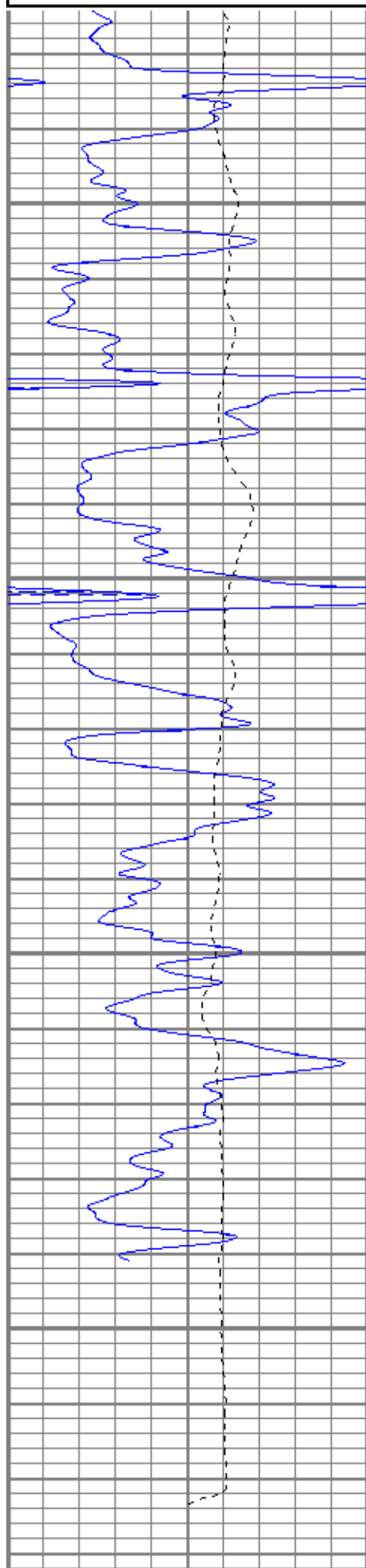


0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

Database File jofnussc#1oh.db
 Dataset Pathname pass1
 Presentation Format kdil
 Dataset Creation Mon Aug 28 17:04:21 2017
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
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-100	SP (mV)	100
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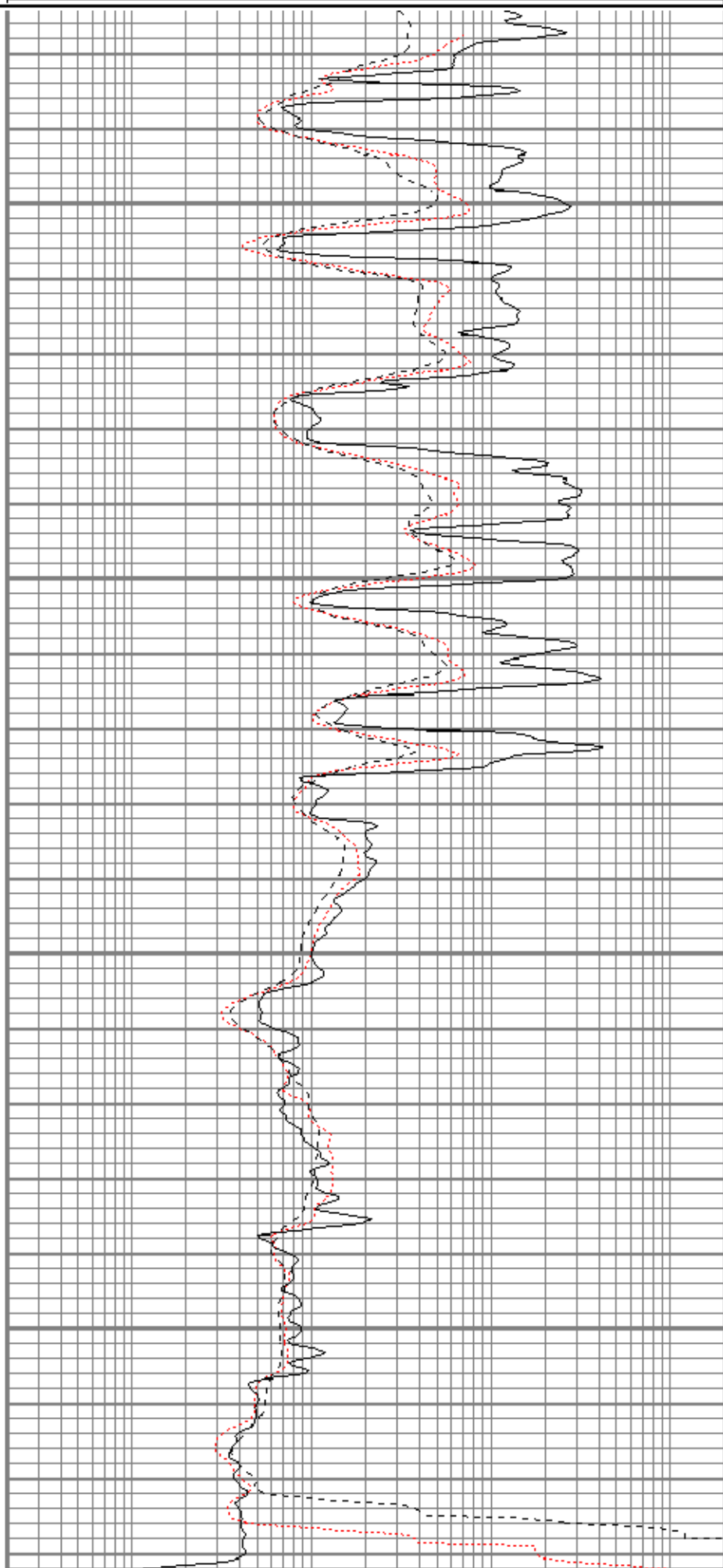
3500

3550

3600

3650

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



0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

Calibration Report		
Database File	jofnussc#1oh.db	
Dataset Pathname	pass1	
Dataset Creation	Mon Aug 28 17:04:21 2017	

Dual Induction Calibration Report		
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Serial-Model:	5375-G
Surface Cal Performed:	Tue Aug 15 10:21:23 2017
Downhole Cal Performed:	Tue Aug 15 10:22:14 2017
After Survey Verification Performed:	Tue Aug 15 10:22:14 2017

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.003	0.635	V	0.000	350.000	mmho/m	548.445	1.715
Medium	-0.001	0.717	V	0.000	400.000	mmho/m	556.583	0.684
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.003	0.635	V	0.000	350.000	mmho/m	548.268	1.663
Medium	-0.001	0.718	V	0.000	400.000	mmho/m	556.234	0.694

Downhole Calibration								
Readings			References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.131	349.928	mmho/m	0.052	350.165	mmho/m	1.001	-0.079
Medium	-0.084	400.178	mmho/m	-0.010	400.241	mmho/m	1.000	0.073
Shallow	2.425	0.005	V	500.000	2.000	Ohm-m	205.838	0.894

After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.131	349.928	mmho/m	1.001	-0.079
Medium	0.000	0.000	mmho/m	-0.084	400.178	mmho/m	1.000	0.073
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:	2017	
Tool Model:	lithgearhart	
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
 High Reference: 1.00 degF 1.00 degF
 Gain: 1.00
 Offset: 0.00
 Delta Spacing 1

Inclinometer Calibration Report

Performed: Mon Aug 07 09:05:18 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: WithMC
 Tool Model: WMC
 Performed: (Not Performed)

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	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91		ADT-WMC (WithMC) Admyr Telemetry With Mudcell	4.58	3.50	120.00
ACCX	38.91					
SSTAT	38.49					
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82		NEU-lithgearhart (2017) gearhart for litho	5.65	3.50	85.00
TEMP	36.82					
NEU	32.66					
LStat	24.30		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
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				21.47	345.00
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					

DIL-G (5375)
Gearhart

Dataset: jofnussc#1oh.db: field/well/run1/pass1
 Total length: 41.49 ft
 Total weight: 791.00 lb
 O.D.: 4.00 in